APPENDICES

APPENDIX A

Air Quality Report

AIR QUALITY REPORT

FOR THE

NORTH HOLLYWOOD HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT
CITY OF LOS ANGELES
LOS ANGELES COUNTY, CALIFORNIA



Prepared for:

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NOVEMBER 2017

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Prepared by: _____ Date: NOVEMBER 7, 2017
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ATTACHMENTS

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1.0 INTRODUCTION

1.1 Context

This air quality technical study was prepared by UltraSystems to support an Initial Study (IS) for the North Hollywood High School Comprehensive Modernization Project (Project) in the city of Los Angeles, California. The Project includes various renovations, modernizations, and reconfigurations throughout the campus, including demolition of existing facilities, construction of new facilities, site upgrades and accessibility improvements on a 25.1-acre site. Preconstruction activities for the Project are underway and are slated to end in the third quarter of 2018. Construction activities are anticipated to begin in early September 2019 and to be completed in late November 2022.[1]

Ongoing master planning activities and facility site assessments conducted for Los Angeles Unified School District's (LAUSD or District) facilities over the last several years have identified school sites throughout the District that exhibit critical physical conditions. The School Upgrade Program (SUP) implemented by the LAUSD outlines a series of capital improvements intended to rehabilitate and modernize these schools so they are safe, healthy and functional places to learn.

The LAUSD prepared an Environmental Impact Report (SCH No. 2013111046) at the program level of detail to evaluate the direct and indirect environmental effects of the SUP program. The SUP Program EIR (PEIR) was certified as adequate by the LAUSD Board October 2015. As provided in Section 15168 of the State CEQA Guidelines, a Program EIR may be prepared on a series of actions that can be characterized as one large project. Use of a Program EIR provides the LAUSD (as lead agency) with the opportunity to consider broad policy alternatives and program-wide mitigation measures, and provides the LAUSD with greater flexibility to address project-specific and cumulative environmental impacts on a comprehensive basis.

Subsequent activities within the program are evaluated to determine whether an additional CEQA document needs to be prepared. However, if the Program EIR addresses the program's effects as specifically and comprehensively as possible, many subsequent activities could be found to be within the Program EIR scope, and additional environmental documents may not be required.[2] When a Program EIR is relied on for a subsequent activity, the lead agency must incorporate any feasible mitigation measures and alternatives developed in the Program EIR into the subsequent activities.[3]

1.2 PEIR Air Quality Summary

Table 1.2-1 summarizes the PEIR's conclusions regarding the air quality impacts of the SUP.

1 The analysis in this Initial Study assumes 39 months of construction activities. LAUSD is also considering a 54-month construction schedule.
2 14 CCR Section 15168(c).
3 14 CCR Section 15168(c)(3)

Table 1.2-1
AIR QUALITY IMPACTS IDENTIFIED IN THE PEIR

No.	Environmental Threshold	Level of Impact Significance	Potential Impacts Identified in the PEIR	Applicable SCAs	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.
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 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.
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.

According to the PEIR, projects implemented under the SUP are anticipated to have less than significant and potentially significant impacts on air quality in the LAUSD region. However, the

project specific analysis provided in **Section 4.3** below concludes that implementation of the North Hollywood High School Project would have either no impacts, less than significant impacts, or less than significant impacts with mitigation, on the surrounding community and the school site.

1.3 Outline of This Report

The purpose of this report is to provide a detailed technical air quality analysis of the North Hollywood High School Comprehensive Modernization Project. The analysis was prepared in accordance with the *CEQA Air Quality Handbook* prepared by the South Coast Air Quality Management District (SCAQMD 1993).[4] Regional climate and meteorology, air quality monitoring data, and the area's attainment status with respect to criteria air pollutants are discussed. The report includes a description of federal, state, 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 this project, including criteria pollutants (i.e., pollutants for which National Ambient Air Quality Standards [NAAQS] have been established by the U.S. Environmental Protection Agency, and their precursors) and mobile source air toxics. Impacts of greenhouse gas (GHG) emissions are evaluated in **Section 4.7** of the Initial Study for the Project. The report describes the analytical methodologies and assumptions used for this study as well as the results of these analyses and proposed mitigation measures.

4 Updates to the CEQA Air Quality Handbook are at http://sfprod.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook.

2.0 PROJECT DESCRIPTION

2.1 Introduction

As part of the District's School Upgrade Program,[5] the District plans to implement a comprehensive modernization Project at North Hollywood High School in North Hollywood, California. A campus-wide survey of the North Hollywood School campus found existing structures and mechanical systems to be outdated, requiring rehabilitation or modernization to meet current needs.[6] Many of the issues to be addressed by the Project arise from the fact that portions of the school are about 90 years old. Many of the current permanent buildings were built as early as 1927, although two expansions were undertaken in the mid-1950s and late-1990s. The campus buildings that were built between 1927 and 1934 typify the Mediterranean Revival style of architecture, which is also a primary period of historical significance for North Hollywood High School.[7]

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 buildings and facilities; upgrades to infrastructure and utilities; and various upgrades to comply with the Americans with Disabilities Act (ADA:42 U.S. Code Chapter 126).

2.2 Project Location

The North Hollywood High School campus encompasses a 25.1-acre site located at 5231 Colfax Avenue in the Valley Village community of the City of Los Angeles, California**.** The school serves the communities of North Hollywood, Sun Valley, Studio City, and Toluca Lake. The surrounding neighborhood consists primarily of single-family and multi-family residences.[8] **Figures 2.2-1** and **2.2-2** depict the site in its regional and local contexts, respectively. Regional access to the campus is provided by Magnolia Boulevard to the south, which intersects the Hollywood Freeway approximately 0.25 mile to the east. Local access is provided by a series of residential collectors, including Chandler Boulevard to the north and Colfax Avenue to the east. In addition, two Metro Orange Line stops are in the vicinity of the school: the first is approximately 0.4 mile west of the Colfax/Chandler intersection, and the second approximately 0.6 mile east of the Colfax/Chandler intersection at the North Hollywood Transit Center. Entry to the campus is provided from Magnolia Boulevard and Colfax Avenue, on the southern and eastern sides of the campus, respectively.

2.3 Campus Setting

The campus contains 57 buildings, consisting of 25 permanent buildings and 32 portables, providing a combined 108 classrooms with capacity to accommodate 2,700 students. **Figure 2.3-1** shows a site plan of the existing facilities.

The main permanent buildings on campus, built in the late 1920s, include one administration and classroom building, two general and specialty classroom buildings, one auditorium, one library, one

5 LAUSD OEHS, "School Upgrade Program Final Environmental Impact Report," http://achieve.lausd.net/ceqa, Adopted by the Board of Education on November 10, 2015.
6 LAUSD, July 16, 2010. North Hollywood High School: Campus Pre-Planning Survey.
7 LAUSD. January 18, 2016. Character-Defining Features Memorandum (CDFM) for North Hollywood High School, 5231 Colfax Avenue, North Hollywood, California, 91601.
8 LAUSD, July 16, 2010. North Hollywood High School: Campus Pre-Planning Survey.
(fn. Cont.)

cafeteria, two gymnasiums, and three shop and mechanic buildings located in the southern part of the campus. During the expansions in the mid-1950s and late-1990s, numerous portable classroom buildings were installed in the western part of the campus.[9] The campus also includes an instrumental music classroom; an auto shop; a wood shop; and an agriculture program with botanical gardens, a greenhouse, a lath house, and animal shelters. The northern part of the campus is mostly occupied by sports and athletic fields, including a football stadium and a baseball field. Surface parking lots are located in the western part of the campus. The campus is linked by a system of exterior corridors, walkways and arcades (see **Figure 2.3-1**). In addition to being an educational institution, the school is open on weekends as a community recreational facility.[10] In addition, the North Hollywood Polytechnic Community Adult School and Amelia Earhart Continuation School are located adjacent to the northeast corner of the campus.

9 LAUSD, July 16, 2010. North Hollywood High School: Campus Pre-Planning Survey.
10 Arborgate Consulting, Inc. July 6, 2016. Tree Management & Preservation Study, p. 1.

Figure 2.2-1
REGIONAL LOCATION OF PROJECT

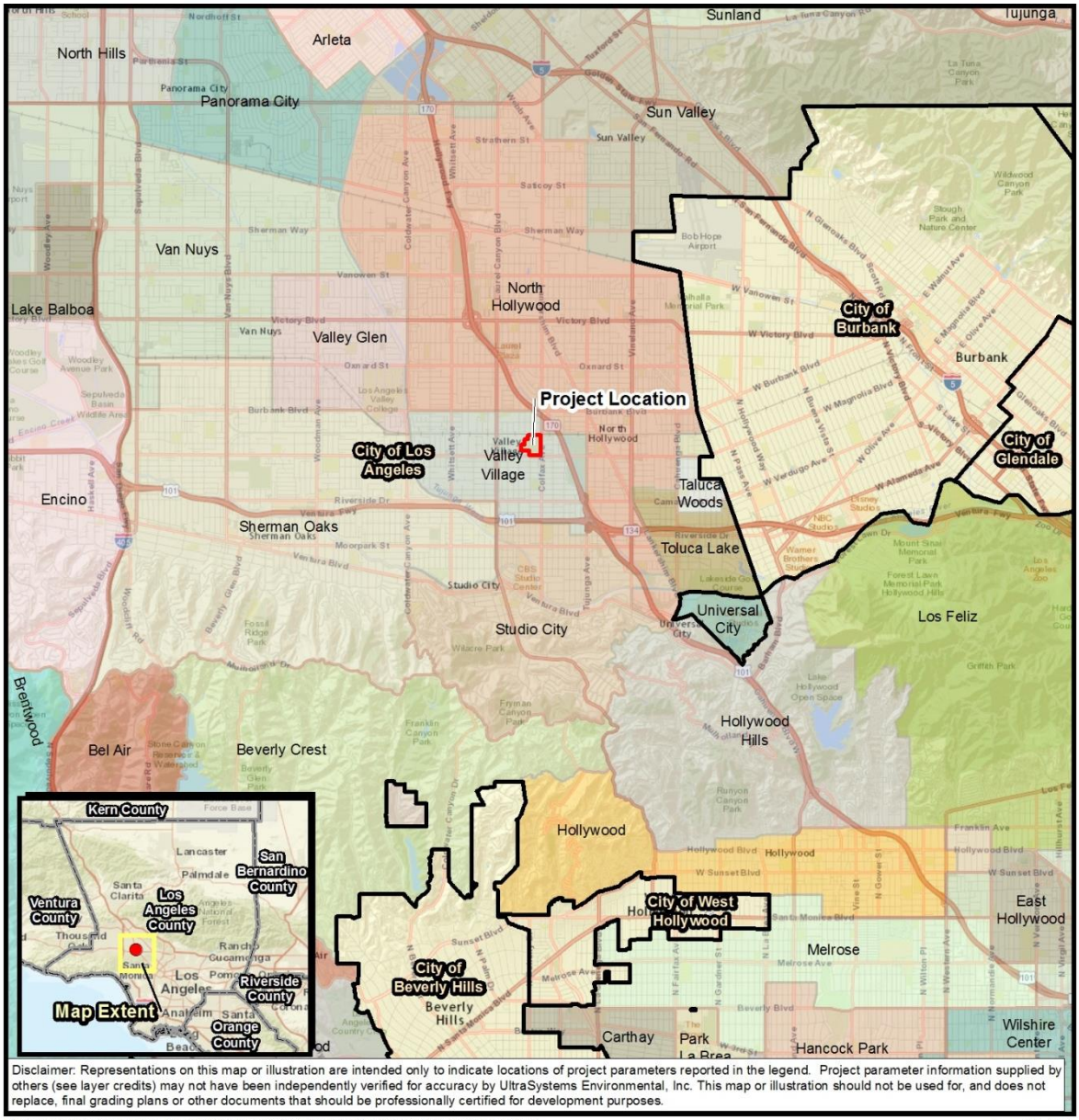
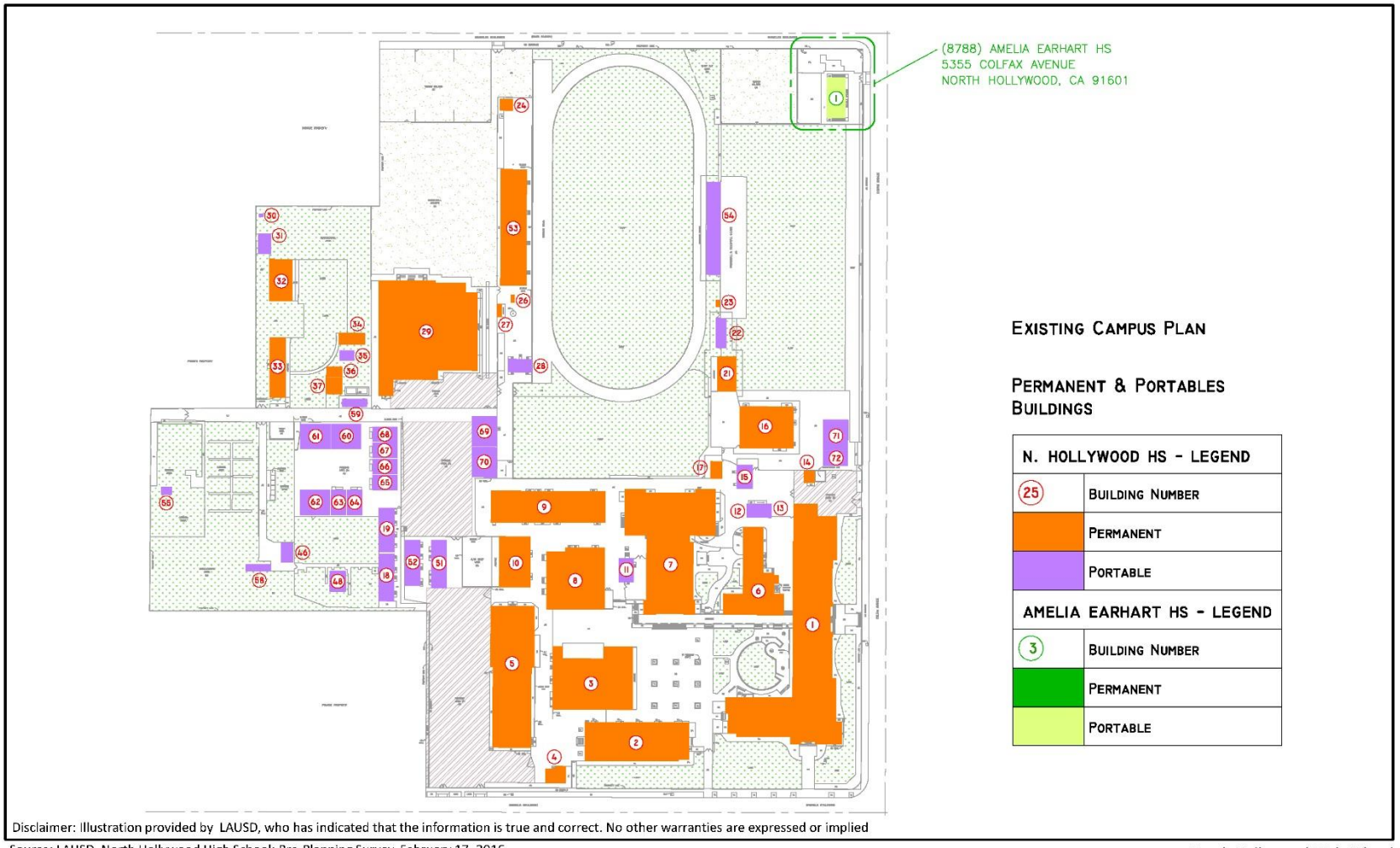


Figure 2.2-2
PROJECT VICINITY



Figure 2.3-1
SITE PLAN



2.4 Description of Proposed Project

2.4.1 Purpose and Objectives

The purpose of the North Hollywood High School Comprehensive Modernization Project (Project) is to provide facilities that are safe, secure, and aligned with the instructional program of North Hollywood High School. The Project is designed to address the most critical physical concerns of the buildings and grounds at the campus while providing renovations, modernizations, and reconfigurations that are consistent with the Project definition for North Hollywood High School.[11]

On March 10, 2015, the LAUSD's Board of Education (Board) approved pre-design and due diligence activities necessary to develop a project definition for a comprehensive modernization project (Project) at North Hollywood High School. On April 12, 2016 the Board approved the project definition for North Hollywood High School (Project site or campus). This approval authorized LAUSD's Facilities Services Division to proceed with project design and the completion of related technical and regulatory processes including those required under the California Environmental Quality Act (CEQA).

2.4.2 Planned Improvements

The major Project components include (1) demolition of various buildings, (2) construction of new buildings, (3) upgrades to facilities throughout the campus, and (4) improvements to comply with federal, State and local facilities requirements**. Table 2.4-1** summarizes the planned improvements to the campus, while each activity is described in greater detail following the table. **Figure 2.4-1** shows stationary and portable buildings that would be removed and replaced as part of the Project.

Table 2.4-1
SUMMARY OF PLANNED IMPROVEMENTS

Physical Asset	Activity	Number of Buildings	Square Feet
Student Store	Demolition	1	806
Classroom Building (Randolph Hall)	Demolition	1	30,672
Auditorium	Demolition	1	23,973
Wood Shop Building	Demolition	1	9,017
Shop Building	Demolition	1	9,294
Auto Shop	Demolition	1	5,084
Storage Unit 2	Demolition	1	360
Girls Physical Education Building	Demolition	1	5,846
Candy Store	Demolition	1	504
Instrumental Music Classroom	Demolition	1	2,249
Storage Unit 4	Demolition	1	134
Gymnasium	Demolition	1	27,174
Classrooms, Utility and Storage Facilities (Relocatable and Modular Portable Buildings)	Demolition	23	29,144
Classroom Building	New construction	1	134,262
Auditorium	New construction	1	44,895

11 LAUSD, Board of Education. Board of Education Report. Report No. 246-15/16. February 9, 2016.

Physical Asset	Activity	Number of Buildings	Square Feet
Physical Education/Athletics (Gym)	New construction	1	54,433
Classroom and Administration building (Kennedy Hall)	Modernization (Seismic Retrofit)	1	67,251
Classroom building (Frasher Hall)	Modernization (Seismic Retrofit)	1	20,495
Library/Media Center	Modernization (Seismic Retrofit)	1	9,360
Baseball and Softball Fields	Relocation	N/A	N/A
Site-wide Infrastructure	Upgrade sanitary sewer, water, and electrical utilities.	N/A	N/A
Site-wide Infrastructure	Remove identified and prioritized barriers to program accessibility.	N/A	N/A
Site-wide Infrastructure	Upgrade landscape, hardscape, paint exteriors.	N/A	N/A
Site-wide	Upgrades for regulatory compliance.	N/A	N/A
TOTAL		**144,257 sf Demolished 233,590 sf Constructed**	

2.4.2.1 Demolition

The Project would include demolition and removal of 12 buildings totaling 115,113 square feet of floor space and 23 portables containing 29,144 square feet of classrooms and support spaces.

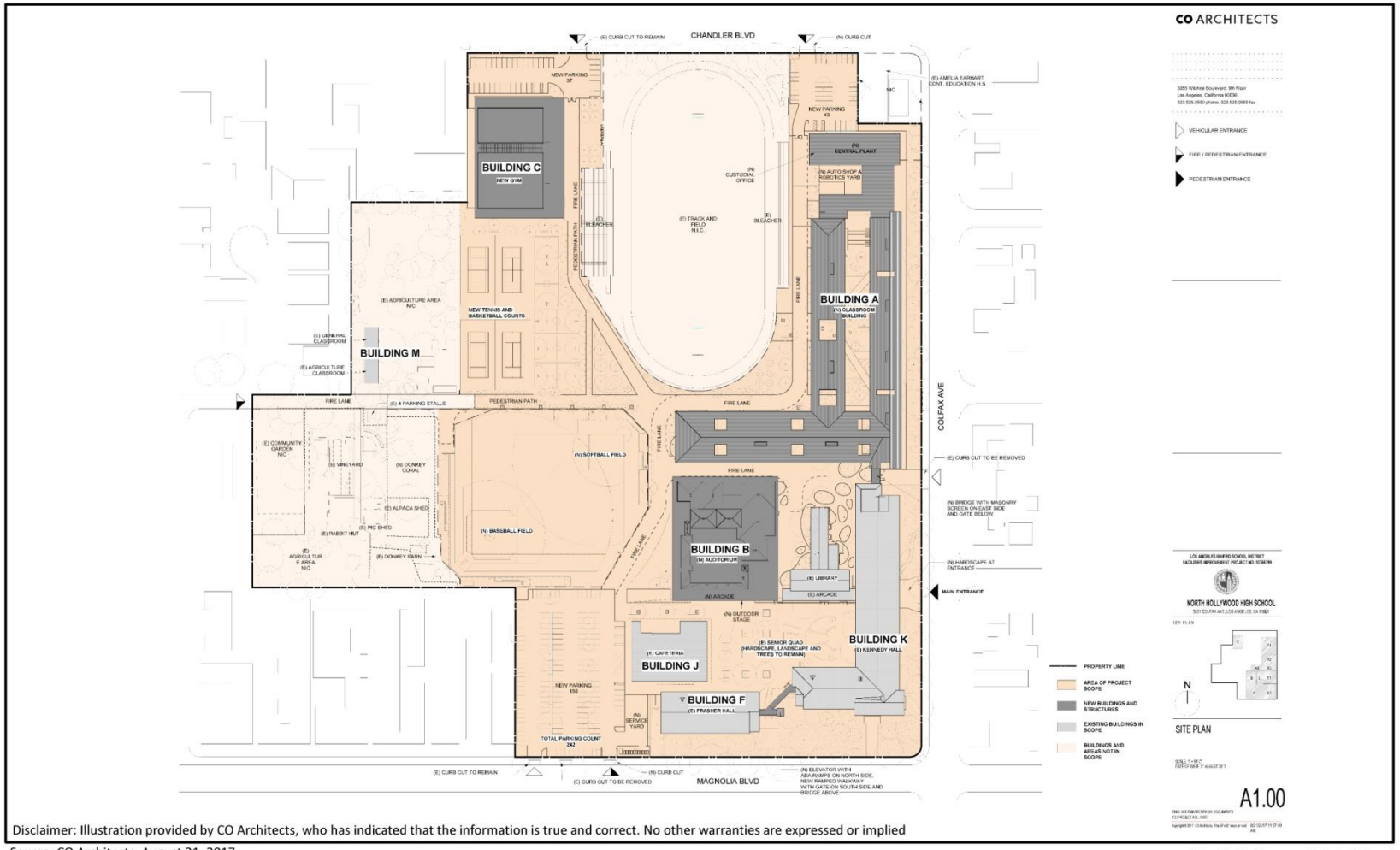
Facilities to be removed include the following

- Student Store (Building ID-4)
- Social Arts and Classroom (Building ID-5)
- Auditorium (Building ID-7)
- Shop and Mechanics (Building ID-8)
- Shop Building (Building ID-9)
- Auto Shop (Building ID-10)
- Storage Unit 2 (Building ID-14)
- Girls Physical Education (Building ID-16)
- Candy Store (Building ID-17)
- Instrumental Music Classroom (Building ID-21)
- Storage Unit 4 (Building ID-27)
- Gymnasium (Building ID-29)

- Approximately 23 classrooms, and utility and storage spaces in relocatable and modular portable Buildings (Building IDs 11, 12, 13, 15, 18, 19, 28, 51, 52, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, and 72).

Figure 2.4-1 shows stationary and portable buildings that would be removed by the Project.

Figure 2.4-1
PROPOSED CAMPUS IMPROVEMENTS



Disclaimer: Illustration provided by CO Architects, who has indicated that the information is true and correct. No other warranties are expressed or implied

Source: CO Architects, August 21, 2017.

UltraSystems environmental•management•planning

North Hollywood High School Comprehensive Modernization Project

Site Plan

2.4.2.2 New Construction

The following structures would be built to current code requirements and LAUSD design standards:

- **Classroom Building:** A two to three story building including 134,262 square feet and 53 classrooms. The new Classroom building would be located on the site of existing fields and the Girls Physical Education building (Building ID-16).

- **Auditorium:** A one story building comprising 44,895 square feet including four classrooms, and support and specialty spaces. The new Auditorium building would be located on the sites of the existing Auditorium (Building ID-7), Shop and Mechanics building (Building ID-8), Shop building (Building ID-9), and Auto Shop building (Building ID-10).

- **Gymnasium:** A one story Gymnasium/Physical Education building comprising 54,433 square feet including competition and practice gymnasium floors, locker rooms (restrooms, showers, and dressing area), coaches' offices, and physical education support spaces, along with support spaces for storage of pool sports equipment and mechanical equipment. The new Gymnasium building would be constructed on the site of existing athletic courts.

2.4.2.3 Modernizations and Renovations

The Project would include modernization and/or upgrades to the following facilities

- Classroom and Administration Building (Kennedy Hall, Building ID-1): seismic retrofit,
- Classroom Building (Frasher Hall, Building ID-2): seismic retrofit,
- Library and Media Center (Building ID-6): seismic retrofit,

2.4.2.4 Infrastructure Upgrades

The Project would also include the following site upgrades

- Upgrades to site-wide infrastructure, including sanitary sewer, water, and electrical utilities.
- Various site-wide upgrades to remove identified and prioritized barriers to program accessibility per the Americans with Disabilities Act (42 U.S. Code Chapter 126).
- Landscape, hardscape, and exterior paint.

2.4.2.5 Updates for Regulatory Compliance

The Project includes various actions to ensure that North Hollywood High School complies with various federal, State and local statutory and regulatory requirements. These include improvements required by the: Americans with Disabilities Act (42 U.S. Code Chapter 126), California Department of General Services, Division of the State Architect, Office of the Independent Monitor, and Standard Conditions of Approval (SC) of the Programmatic Environmental Impact Report (PEIR) (LAUSD 2015).

2.4.2.6 Access, Circulation and Parking

The Project would create 50 new parking spaces, increasing the number of parking spaces on the campus from 192 to 242. Thirty-seven parking spaces would be provided in a new parking lot to be located north of the new Gymnasium building; 43 parking spaces would be provided in a new parking lot, north of the new Administration/Classroom building in the northeast portion of the campus; four parking spaces would be provided in the parking area south of the agricultural areas; and the existing parking lot west of Frasher Hall (Classroom Building ID-2) would be expanded to provide 158 parking spaces.

At Project completion, campus access, traffic circulation, and drop-off and pick-up locations would remain the same as for the existing campus. Proposed improvements to vehicular access and parking would be designed to comply with Section 2.3, Vehicular Access and Parking of the School Design Guide 2016.[12] The School Design Guide contains general parking guidelines as well as guidelines relating to vehicular access and pedestrian safety, and security. Offsite improvements would include construction activities on the sidewalks located immediately adjacent to the campus for the repair, creation, extension, or modification of driveways, a possible curb extension, and existing sidewalks.

2.4.2.7 Landscaping

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

2.4.2.8 Site Security and Safety

Currently, the North Hollywood High School campus is mostly secured by fencing along the boundaries. Following the Project, the campus would remain secured with the majority of the campus being fenced or gated. The Project may install additional fences surrounding new parking lots. Additionally, security lighting would be installed throughout the campus to alleviate safety concerns.

2.4.2.9 Sustainability Features

The Project's new buildings and structures would be designed to reduce energy use below current levels by incorporating modernized and energy-efficient features, which may include lighting, windows, electrical transformers, building insulation, or installation of irrigation smart controllers, etc. All new construction would at a minimum exceed by 10% or more the energy efficiency standards under California Title 24, Part 6 energy efficiency standards consistent with LAUSD standard conditions of approval (**SC-GHG-5**).

2.4.3 Construction Schedule

The Project would be executed through a design-build contract. Preconstruction activities are underway and are expected to be completed in the fourth quarter of 2018. Construction activities are anticipated to begin in the first quarter of 2019, with completion expected in the first quarter of 2022. Schedule details are presented in **Section 4.2**.

12 http://www.laschools.org/new-site/asset-management/school-design-guide

3.0 UPDATED AND PROJECT-SPECIFIC EXISTING CONDITIONS

3.1 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), which includes all of Orange County and the non-desert portions of Los Angeles County, most of Riverside County, and the western portion of San Bernardino County – including some portions of what was previously known as the Southeast Desert Air Basin. The distinctive climate of the SCAB is determined by its terrain and geographic location. The SCAB is 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. The general region lies 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 SCAB is hampered 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 SCAB 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 photochemical 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 mph, smog potential is greatly reduced (SCAQMD 1993).

The annual average high and low temperatures, as recorded at the North Hollywood Station (0.25 mile southeast of the proposed Project site, at 34.16667°N, -118.38333°E), are 76.2 and 47.7 degrees Fahrenheit (°F), respectively. Average winter (December, January, and February) high and low temperatures are approximately 66.8°F and 39.9°F and average summer (June, July, and August) high and low temperatures are approximately 85.0°F and 55.9°F.[13] The annual average of total precipitation is approximately 16.35 inches, which occurs mostly during the winter and relatively infrequently during the summer. Monthly precipitation averages approximately 3.42 inches during the winter (December, January, and February), approximately 1.32 inches during the spring (March, April, and May), approximately 0.69 inch during the fall (September, October, and November), and approximately 0.02 inch during the summer (June, July, and August).[14] 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 miles per hour below the passes and canyons. During the spring and summer months, air pollution is carried out of

13 Western Regional Climate Center. "Western U.S. Climate Historical Summaries." Web site. Available at: http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6256. Visited February 15, 2017.
14 http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca6256. Visited February 15, 2017.

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 in the proposed Project area and its vicinity, air contaminants do not readily disperse, thus trapping air pollution in the area.

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 East San Fernando Valley SRA (SRA 7). The station most representative of the site is the Reseda Station, which is located at 18330 Gault Street, Reseda, CA, 91702. This station is 8.5 miles northwest of the Project site. It monitors $PM_{2.5}$, NO_2 and O_3. The nearest air quality monitoring station that records PM_{10} is the Los Angeles North Main Street Station at 1630 North Main Street, Los Angeles, CA 90012, which is 11.5 miles southeast of the Project site. The SCAQMD's "East San Fernando Valley SRA (SRA 7)" station measures CO.[15] No station within a reasonable distance measures SO_2. The ambient air quality data in the proposed Project vicinity as recorded at these stations for 2013 to 2015 and the applicable federal and state standards are shown in **Table 3.1-1** (Ambient Air Quality Monitoring Data).

Table 3.1-1
AMBIENT AIR QUALITY MONITORING DATA

Air Pollutant	Standard/Exceedance	Year		
		2013	2014	2015
Carbon Monoxide (CO)	Year Coverage	91.7%	43%[b]	ND[a]
	Max. 1-hour Concentration (ppm)	ND	3[b]	ND
	Max. 8-hour Concentration (ppm)	2.4	3[b]	ND
	# Days > Federal 1-hour Std. of 35 ppm	ND	ND	ND
	# Days > Federal 8-hour Std. of 9 ppm	ND	ND	ND
	# Days > California 8-hour Std. of 9.0 ppm	ND	ND	ND
Ozone (O_3)	Year Coverage	95%	95%	96%
	Max. 1-hour Concentration (ppm)	0.124	0.116	0.119
	Max. 8-hour Concentration (ppm)	0.092	0.092	0.094
	# Days > Federal 8-hour Std. of 0.075 ppm	20	27	32
	# Days > California 1-hour Std. of 0.09 ppm	0	0	0
	# Days > California 8-hour Std. of 0.07 ppm	21	31	34
Nitrogen Dioxide (NO_2)	Year Coverage	65%	79%	96%
	Max. 1-hour Concentration (ppb)	ND	ND	ND
	Annual Average (ppb)	ND	ND	13
	# Days > California 1-hour Std. of 0.18 ppm	0	0	0
Sulfur Dioxide (SO_2)	Year Coverage	ND	ND	ND
	Max. 24-hour Concentration (ppb)	ND	ND	ND
	Annual Average (ppm)	ND	ND	ND
	# Days > California 24-hour Std. of 0.04 ppm	ND	ND	ND
Respirable Particulate Matter (PM_{10})	Year Coverage	97%	92%	95%
	Max. 24-hour Concentration (µg/m^3)	57	66	73
	#Days > Fed. 24-hour Std. of 150 µg/m^3	0	0	0
	#Days > California 24-hour Std. of 50 µg/m^3	21.4	18.7	13.8
	Annual Average (µg/m^3)	29.5	30.6	27.1

15 Personal communication from Jason Low, South Coast Air Quality Management District, Diamond Bar, CA to Sloane Seferyn, UltraSystems Environmental, Irvine, CA, February 15, 2017. The SCAQMD's East San Fernando Valley SRA (SRA 7) station data were obtained from the Reseda, Los Angeles-North Main Street, and Santa Clarita stations. The Burbank station is currently closed down.

Air Pollutant	Standard/Exceedance	Year		
		2013	2014	2015
Fine Particulate Matter ($PM_{2.5}$)	Year Coverage	98%	63%	88%
	Max. 24-hour Concentration (µg/m³)	41.8	27.2	36.8
	State Annual Average (µg/m³)	9.8	ND	ND
	#Days > Fed. 24-hour Std. of 35 µg/m³	3.0	ND	3.6
	Federal Annual Average (µg/m³)	9.8	ND	8.8

Sources:
http://www.arb.ca.gov/adam/select8/sc8start.php. Accessed February 15, 2017.
https://www.arb.ca.gov/adam/trends/trends1.php. Accessed February 15, 2017.
https://www.arb.ca.gov/adam/topfour/topfourdisplay.php. Accessed February 15, 2017.
http://www.aqmd.gov/home/library/air-quality-data-studies/historical-data-by-year. Accessed February 15, 2017.

[a]ND – There were insufficient (or no) data available to determine the value.
[b]South Coast Air Quality District incomplete data.

3.2 Updated Regulatory Setting

3.2.1 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 (EPA) and/or the California Air Resources Board (ARB). The criteria air pollutants of concern are nitrogen dioxide (NO_2), carbon monoxide, particulate matter, sulfur dioxide, lead, and ozone, and their precursors. Since the proposed Project would not generate appreciable sulfur dioxide (SO_2) or lead (Pb) emissions,[16] 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 Final PEIR.[17]

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

3.2.2 Applicable Air Quality Regulations

Federal, California and regional air quality regulations are discussed in detail in the PEIR.[18] Inasmuch as no changes that would affect the air quality analysis for the North Hollywood High School Comprehensive Modernization Project have been made since the PEIR was adopted, the regulations will not be discussed here.

3.2.3 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 that these plans be updated triennially to incorporate

16 Sulfur dioxide emissions will be about 0.11 pound per day during construction. Operational SO2 emissions were not calculated for this project. (See Section 4.3.2.1.)
17 PEIR, pp. 5.3-6 through 5.3-9.
18 PEIR, pp. 5.3-2 through 5.3-15.
(fn. Cont.)

the most recent available technical information.[19] A multi-level partnership of governmental agencies at the federal, state, regional, and local levels implement the programs contained in these plans. Agencies involved include the EPA, ARB, local governments, Southern California Association of Governments (SCAG), and SCAQMD. The SCAQMD and the SCAG are responsible for formulating and implementing the Air Quality Management Plan (AQMP) for the SCAB. The SCAQMD updates its AQMP every three years. The 2012 AQMP, which is the latest, was adopted by the SCAQMD Board on December 6, 2012 and submitted to the ARB and the EPA 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 South Coast Air Basin. In addition, the 2012 AQMP provides updates on progress towards meeting the 8-hour ozone standard for 2023, an attainment demonstration for the revoked 1-hour ozone standard, a vehicle miles traveled (VMT) offset demonstration for ozone standards, and a report on the health effects of $PM_{2.5}$.

On January 25, 2013, the ARB approved the South Coast 2012 AQMP as an amendment to the State Implementation Plan (SIP) (ARB 2013).[20] On February 13, 2013, the ARB submitted the approved plan to the EPA (Goldstene 2013).[21] On August 13, 2014, the EPA approved the California SIP's plan for attainment of the 1-hour ozone standard and the VMT emissions offset demonstration for the 1-hour and 1997 8-hour ozone standards.[22]

The 2016 AQMP was adopted by the SCAQMD Board on March 3, 2017, and on March 10, 2017 was submitted to the ARB as part of the SIP.[23] It focuses largely on reducing NO_x emissions as a means of attaining the 1979 1-hour ozone standard by 2022, the 1997 8-hour ozone standard by 2023, and the 2008 8-hour standard by 2031.[24] The AQMP prescribes a variety of current and proposed new control measures, including a request to the EPA for increased regulation of mobile source emissions. The NO_x control measures will also help the SCAB attain the 24-hour standard for $PM_{2.5}$.

Table 3.3-1 (Federal and State Attainment Status) shows the area designation status of the SCAB for each criteria pollutant for both the NAAQS and CAAQS as of April 2017.

Table 3.3-1
FEDERAL AND STATE ATTAINMENT STATUS

Pollutants	Federal Classification	State Classification
Ozone (O_3)	2008 8-Hour: Non-Attainment (Extreme)	Non-Attainment

19 CCAA of 1988.
20 http://www.aqmd.gov/aqmp/2012aqmp/Final/CARB-Resolution.pdf.
21 http://www.arb.ca.gov/planning/sip/planarea/2012%20AQMP%20Submittal%20Letter%20to%20U.S.%20EPA.pdf.
22 https://www3.epa.gov/region9/air/actions/pdf/ca/southcoast/epa-r09-oar-2014-0185-0823-factsheet-1hr-attain-vmt-offset-final-action-2014-08-13.pdf
23 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.
24 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.

Pollutants	Federal Classification	State Classification
	2015 8-Hour: Designation Pending	Not Applicable
Particulate Matter (PM_{10})	Maintenance	Non-Attainment
Fine Particulate Matter ($PM_{2.5}$)	Non-Attainment	Non-Attainment
Carbon Monoxide (CO)	Maintenance	Attainment
Nitrogen Dioxide (NO_2)	Maintenance	Non-Attainment
Sulfur Dioxide (SO_2)	Attainment	Attainment

Source: National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin. South Coast Air Quality Management District. http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaqs-caaqs-feb2016.pdf?sfvrsn=2.
U.S. Environmental Protection Agency, "PM-10 (1987) Designated Area State/Area/County Report As of February 13, 2017." Green Book. [https://www3.epa.gov/airquality/greenbook/pbcs.html#CA]. Accessed February 13, 2017.

3.3 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 by SCAQMD (1993) in its *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 displayed below in **Figure 3.3-1** and listed in **Table 3.3-1**.

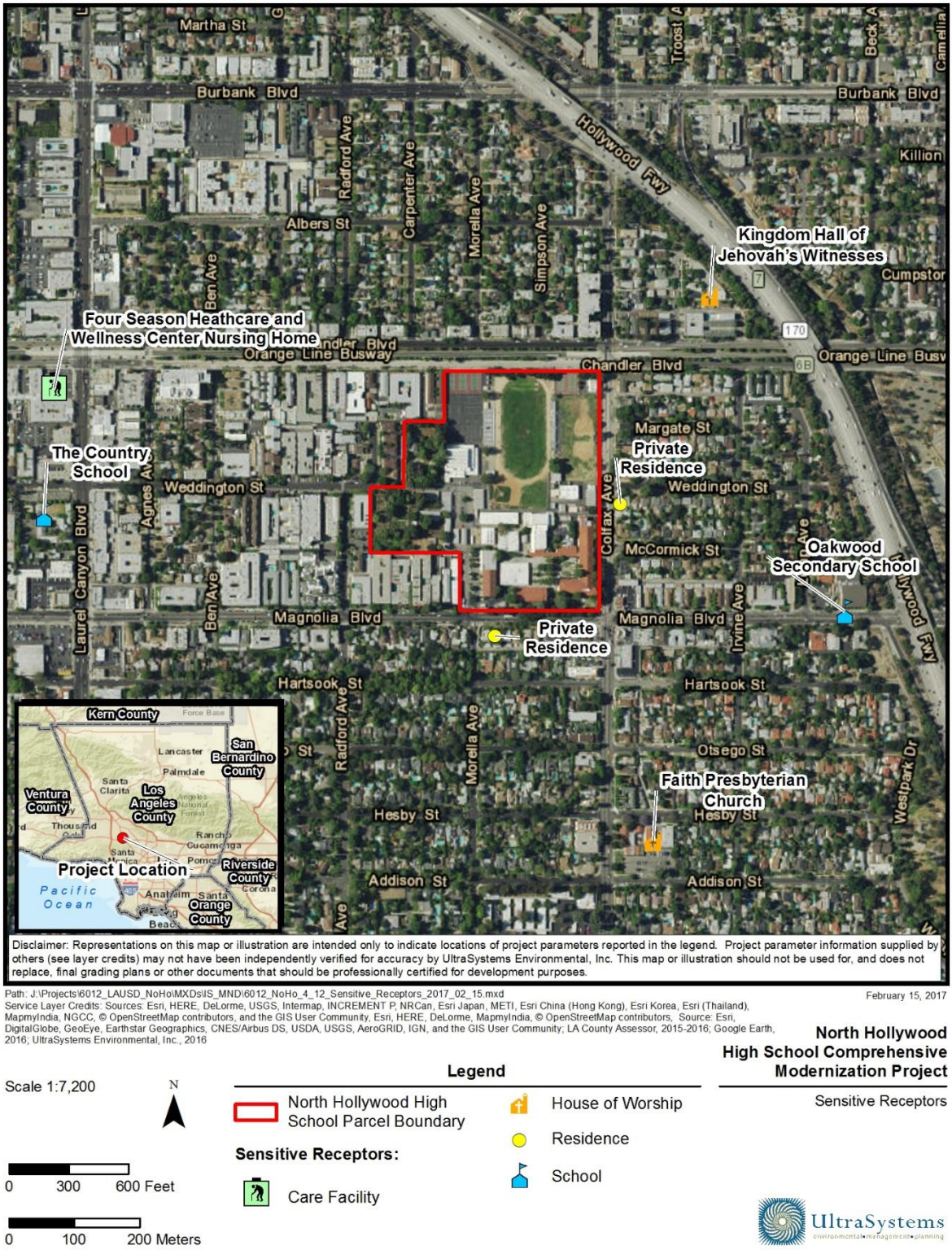
Table 3.3-1
NEAREST SENSITIVE RECEPTORS

	Sensitive Receiver Name	Location	Distance from Proposed Project (Feet)
1	Private Residence	5252 Colfax Avenue North Hollywood, CA 91601 Latitude: 34.166477 Longitude: -118.387552	70
2	Private Residence	11752 W. Magnolia Blvd. North Hollywood, CA 91601 Latitude: 34.164652 Longitude: -118.389627	85
3	Kingdom Hall of Jehovah's Witnesses	5440 Troost Avenue North Hollywood, CA 91601 Latitude: 34.169356 Longitude: -118.386072	627

	Sensitive Receiver Name	Location	Distance from Proposed Project (Feet)
4	Oakwood Secondary School	11600 W. Magnolia Blvd. North Hollywood, CA 91601 Latitude: 34.165007 Longitude: -118.383818	935
5	Faith Presbyterian Church	5000 Colfax Avenue North Hollywood, CA 91601 Latitude: 34.161825 Longitude: -118.386983	1,121
6	Four Seasons Healthcare and Wellness Center Nursing Home	5335 Laurel Canyon Blvd. North Hollywood, CA 91601 Latitude: 34.168043 Longitude: -118.396974	1,725
7	The Country School	5243 Laurel Canyon Blvd. North Hollywood, CA 91601 Latitude: 34.166309 Longitude: -118.397134	1,728

Source: UltraSystems and Google Earth Pro. 2016.

Figure 3.3-1
SENSITIVE RECEPTORS



4.0 PROJECT-SPECIFIC IMPACTS ANALYSIS

4.1 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.
- Violate any air quality standard or contribute substantially to an existing or projected air quality violation.
- 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 (including releasing emissions that exceed quantitative thresholds for ozone precursors).
- Expose sensitive receptors to substantial pollutant concentrations.
- Create objectionable odors 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. As will be discussed in the next section, the SCAQMD has developed a *CEQA Air Quality Handbook* to provide a protocol for air quality analyses that are prepared under the requirements of CEQA.

4.1.1 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 vehicle miles traveled to developed commercial or industrial sites.[25] Instead, the District has published guidance on conducting air quality analyses under CEQA (SCAQMD 1993).[26] SCAQMD's significance thresholds are summarized in **Table 4.1-1** (SCAQMD Emissions Thresholds for Significant Regional Impacts) 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.

25 Two indirect source rules (1501 - Work Trip Reduction Plans and 1501.1 - Alternatives to Work Trip Reduction Plans) were repealed in 1995.

26 Partially updated in 2006.

Table 4.1-1
SCAQMD EMISSIONS THRESHOLDS FOR SIGNIFICANT REGIONAL IMPACTS

Pollutant	Mass Daily Thresholds (Pounds/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 Air Quality Significance Thresholds." 2011. Diamond Bar, CA: South Coast Air Quality Management District, http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2. March 2015. Accessed August 26, 2016.

4.1.2 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 (Chico and Koizumi 2003). 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 source receptor area (SRA)[27] and distance to the nearest offsite 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.

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. 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 eight 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.

4.1.3 Impacts of Carbon Monoxide Hotspots

Because the proposed Project will not result in an increase in traffic at local intersections, the potential for creation of carbon monoxide "hotspots" will be negligible. CO hotspots were therefore omitted from the North Hollywood High School analysis.

27 The SCAQMD has defined 38 source receptor areas for various regulatory purposes. Each SRA is assumed to have a unique set of geographic and meteorological characteristics.

4.2 Methodology

Estimated regional air emissions from the Project's onsite and offsite project construction activities were calculated using the California Emissions Estimator Model (CalEEMod), Version 2016.3.2 (BREEZE Software 2016). 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. The District suggested a set of construction equipment of assumptions that could apply to a variety of SUP projects.[28] For a "worst case," the following values were used. **Table 4.2-1** to **4.2-3** (Construction Equipment Assumptions) lists the construction equipment types and characteristics used in the modelling. **Table 4.2-4** shows the assumed 39-month construction schedule.

Table 4.2-1
CONSTRUCTION EQUIPMENT ASSUMPTIONS PHASE 1

Phase	Equipment Type	Pieces	HP	Load Factor	Hours/ Day
Demolition	Excavators	1	81	0.73	8
	Tractors/Loaders/Backhoes	1	225	0.4	6
	Crushing/Processing Equipment	1	97	0.37	6
	Off-Highway Trucks	1	402	0.4	8
	Skid Steer Loaders	2	65	0.37	8
	Air Compressors	1	78	0.48	8
Site Preparation	Excavators	1	174	0.4	8
	Plate Compactors	1	97	0.37	8
	Tractors/Loaders/Backhoes	1	97	0.37	8
	Skid Steer Loaders	1	65	0.37	8
	Off-Highway Trucks	1	402	0.4	8
	Trenchers	1	78	0.5	8
	Rollers	1	80	0.38	8
Grading	Graders	1	158	0.38	8
	Plate Compactors	1	187	0.41	8
	Rollers	2	247	0.4	8
	Off-Highway Trucks	1	97	0.37	8
	Rubber Tired Dozers	1	247	0.4	8
Building Construction	Cranes	1	231	0.29	7
	Forklifts	3	89	0.2	8
	Generator Sets	1	84	0.74	8
	Tractors/Loaders/Backhoes	3	97	0.37	7
	Welders	1	46	0.45	8
Architectural Coating	Air Compressors	1	78	0.48	6
Paving	Cement and Mortar Mixers	2	9	0.56	6

28 Email from Eimon Smith, Los Angeles Unified School District, Los Angeles, CA to Betsy Lindsay and Michael Rogozen, UltraSystems Environmental, Inc., Irvine, California. November 16, 2016.

Phase	Equipment Type	Pieces	HP	Load Factor	Hours/ Day
	Pavers	1	130	0.42	8
	Paving Equipment	2	132	0.36	6
	Rollers	2	80	0.38	6
	Tractors/Loaders/Backhoes	3	97	0.37	8

Table 4.2-2
CONSTRUCTION EQUIPMENT ASSUMPTIONS PHASE 2

Phase	Equipment Type	Pieces	HP	Load Factor	Hours/ Day
Demolition	Excavators	1	158	0.38	8
	Tractors/Loaders/Backhoes	1	97	0.36	6
	Crushing/Processing Equipment	1	85	0.78	6
	Off-Highway Trucks	1	402	0.38	8
	Skid Steer Loaders	1	65	0.37	8
	Air Compressors	1	78	0.48	8
Renovation	Cranes	1	231	0.29	7
	Forklifts	3	89	0.2	8
	Generator Sets	1	84	0.74	8
	Tractors/Loaders/Backhoes	3	97	0.37	7
	Welders	1	46	0.45	8
Building Construction	Cranes	1	231	0.29	7
	Forklifts	3	89	0.2	8
	Generator Sets	1	84	0.74	8
	Tractors/Loaders/Backhoes	3	97	0.37	7
	Welders	1	46	0.45	8
Architectural Coating	Air Compressors	1	78	0.48	6
Asphalt Paving	Excavators	1	158	0.38	6
	Pavers	2	130	0.42	8
	Paving Equipment	1	132	0.36	6
	Rollers	2	80	0.38	6
	Rubber Tired Dozers	2	247	0.4	8
	Tractors/Loaders/Backhoes	2	97	0.37	8

Table 4.2-3
CONSTRUCTION EQUIPMENT ASSUMPTIONS PHASE 3

Phase	Equipment Type	Pieces	HP	Load Factor	Hours/ Day
Demolition	Excavators	1	158	0.38	8
	Tractors/Loaders/Backhoes	1	247	0.4	6
	Crushing/Processing Equipment	1	81	0.73	6
	Off-Highway Trucks	1	402	0.4	8
	Skid Steer Loaders	2	65	0.37	8
	Air Compressors	1	78	0.48	8
Site Preparation	Excavators	1	174	0.4	8

Phase	Equipment Type	Pieces	HP	Load Factor	Hours/ Day
	Plate Compactors	1	97	0.37	8
	Tractors/Loaders/Backhoes	1	97	0.37	8
	Skid Steer Loaders	1	65	0.37	8
	Off-Highway Trucks	1	402	0.4	8
	Trenchers	1	78	0.5	8
	Rollers	1	80	0.38	8
Grading	Excavators	1	158	0.38	8
	Graders	1	187	0.41	8
	Plate Compactors	1	8	0.43	8
	Tractors/Loaders/Backhoes	1	97	0.37	8
	Rollers	1	80	0.38	8
	Off-Highway Trucks	1	402	0.38	8
	Rubber Tired Dozers	1	247	0.4	8
Building Construction	Cranes	1	231	0.29	7
	Forklifts	3	89	0.2	8
	Generator Sets	1	84	0.74	8
	Tractors/Loaders/Backhoes	3	97	0.37	7
	Welders	1	46	0.45	8
Asphalt Paving	Pavers	1	130	0.42	8
	Paving Equipment	2	132	0.36	6
	Rollers	2	80	0.38	6
	Rubber Tired Dozers	1	247	0.4	8
Concrete Paving	Excavators	1	158	0.38	8
	Pavers	1	130	0.42	8
	Rollers	1	80	0.38	8
	Cement and Mortar Mixers	1	9	0.56	8
	Tractors/Loaders/Backhoes	3	97	0.37	8

Table 4.2-4
ASSUMED CONSTRUCTION PHASES AND SUBPHASES

Construction Phase and Subphase	No. of Working Days	Start	End
PHASE 1	436	September 2019	May 2021
Demolition	10	September 2019	September 2019
Site Clearance	6	September 2019	September 2019
Grading	50	September 2019	December 2019
Construction	340	December 2019	March 2021
Architectural Coatings	30	March 2021	May 2021
Concrete Paving	30	March 2021	May 2021
PHASE 2	520	January 2020	January 2022
Demolition	87	January 2020	May 2020
Renovation	87	June 2020	September 2020
Construction	433	June 2020	January 2022
Asphalt Paving	30	December 2021	January 2022
Architectural Coating	30	December 2021	January 2022
Concrete Paving	30	December 2021	January 2022
PHASE 3	219	January 2022	November 2022
Demolition	45	January 2022	March 2022

Construction Phase and Subphase	No. of Working Days	Start	End
Grading	44	March 2022	May 2022
Construction	130	June 2022	November 2022
Asphalt Paving	10	November 2022	November 2022
Concrete Paving	10	November 2022	November 2022

4.3 Air Quality Impacts

4.3.1 Construction Impacts

Project construction activities will generate short-term air quality impacts. Construction emissions occur both onsite and offsite. Onsite air pollutant emissions consist principally of exhaust emissions from off-road heavy-duty construction equipment, as well as fugitive particulate matter from earth-working and material-handling operations. Offsite emissions result from workers commuting to and from the job site, as well as from trucks hauling materials to the site and construction debris for disposal.

4.3.1.1 Regional Impacts

Emissions of criteria pollutants during Project construction were estimated using the construction module of the California Emissions Estimator Model, Version 2016.3.2 (BREEZE Software 2016). All modeling output files and additional assumptions are provided in **Attachment 1**.

For the purpose of this analysis, it was estimated that the construction of the proposed Project would begin in early September 2019 and finish the end of November 2022. There would be three main phases, each having five to seven sub-phases. Preliminary design and scheduling information from LAUSD[29] was used in conjunction with CalEEMod to estimate the number of days to execute the following construction sub-phases:

- Demolition.
- Site preparation.
- Grading.
- Building renovation.
- New building construction.
- Architectural coating.
- Asphalt paving.
- Concrete paving.

The types and numbers of pieces of equipment anticipated in each phase of construction and development were estimated using CalEEMod and experience with similar projects. With this information, a hypothetical but reasonable week-by-week construction schedule was developed and inputted to CalEEMod. It was also assumed that the construction contractor would comply with all pertinent provisions of SCAQMD Rule 403. Equipment exhaust emissions were determined using CalEEMod default values for horsepower and load factors, which are from the California Air

29 Email from William Meade, Los Angeles Unified School District, Los Angeles, CA to Michael Rogozen, UltraSystems Environmental, Inc., Irvine, CA. September 14, 2017.

Resources Board's OFFROAD2011 model. **Table 4.3-1** shows the model's estimates of maximum daily emissions of the criteria pollutants.

Table 4.3-1
MAXIMUM DAILY UNMITIGATED REGIONAL CONSTRUCTION EMISSIONS

Construction Activity	Maximum Emissions (lbs/day)				
	ROG	NO_x	CO	PM_{10}	$PM_{2.5}$
Maximum Emissions (With Rule 403)	36.82	94	65.77	16.66	9.51
SCAQMD Significance Thresholds	*75*	*100*	*550*	*150*	*55*
Significant (Yes or No)	**No**	**No**	**No**	**No**	**No**

Source: Calculated by UltraSystems with CalEEMod (Version 2016.3.2).

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

4.3.1.2 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. As seen in **Table 3.3-1** and **Figure 3.3-1**, the nearest sensitive receptors are single-family residences on the east and south sides of the school.

Following SCAQMD guidance (Chico and Koizumi 2003), only onsite construction emissions of NO_x, CO, PM_{10}, and $PM_{2.5}$ were considered in the localized significance analysis. The maximum daily disturbance area (in acres) was defined as the area marked as "fenced construction area" on Project phasing diagrams, about 2.23 acres.

Localized significance thresholds were obtained by interpolation from tables in Appendix C of the SCAQMD's *Final Localized Significance Threshold Methodology*.[30] **Table 4.3-2** shows the results of the localized significance analysis for the proposed Project. For the unmitigated case, emissions of PM_{10} and $PM_{2.5}$ would exceed their threshold for significance by about 41% and 61%, respectively. To reduce the PM_{10} and $PM_{2.5}$ emissions to a less than significant level, the following provisions of **SC-AQ-4**, at a minimum, will be implemented:

30 Chico, T. and Koizumi, J. Op. Cit.

Table 4.3-2
RESULTS OF LOCALIZED SIGNIFICANCE ANALYSIS

Nearest Sensitive Receptor	Distance		Maximum On-Site Emissions (lbs/day)			
	Feet	Meters	NO_x	CO	PM_{10}	$PM_{2.5}$
Residence (11752 W Magnolia Blvd)	164	50	87.13	57.89	12.84	8.87
SCAQMD LST for 2.23 acres[a]			*115*	*1,130*	*23*	*6.3*
Significant (Yes or No)			**No**	**No**	**No**	**Yes**
Residence (5252 Colfax Ave)	131	40	87.13	57.89	12.84	8.87
SCAQMD LST for 2.23 acres[a]			*116*	*1,012*	*16.6*	*5.5*
Significant (Yes or No)			**No**	**No**	**No**	**Yes**

Sources:
Emissions calculated by UltraSystems with CalEEMod (Version 2016.3.1).
Chico, T. and Koizumi, J. Final Localized Significance Threshold Methodology. South Coast Air Quality Management District, Diamond Bar, California. June 2003.
[a] Thresholds interpolated linearly between 25 meters and 50 meters, and between 2 and 5 acres. Thresholds are for source-receptor area 7 (East San Fernando Valley).

- Utilize ultra-low sulfur diesel fuel, containing 15 ppm sulfur or less (ULSD) in all diesel construction equipment.
- Use construction equipment rated by the United States Environmental Protection Agency as having Tier 3 (model year 2006 or newer) or Tier 4 (model year 2008 or newer) emission limits for engines between 50 and 750 horsepower.
- Restrict non-essential diesel engine idle time, to not more than five consecutive minutes.
- Utilize electrical power rather than internal combustion engine power generators as soon as feasible during construction.
- Utilize electric or alternatively fueled equipment, if feasible.
- Utilize construction equipment with the minimum practical engine size.
- Ensure construction equipment is properly serviced and maintained to the manufacturer's standards.
- Phase construction activities to minimize maximum daily emissions.

With implementation of these SCs, localized air quality impacts will be less than significant.

Although sensitive receptors would be exposed to diesel exhaust from construction equipment, which has been associated with lung cancer (OEHHA 1998), 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' continuous exposure, while the exposure in the present case would be for about 167 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 Office of Environmental Health Hazard Assessment.[31]

4.3.2 Long-Term Impacts

4.3.2.1 Regional Impacts

The Project will replace or upgrade facilities on the campus of North Hollywood High School, but it will not increase the number of students or faculty at North Hollywood High School, and will not introduce major new emission sources. No new vehicle trips would be generated, and there would be no increase in mobile source emissions. Furthermore, building upgrades and replacement of old, energy-inefficient structures with those that use less energy will reduce emissions from space heating and other onsite sources. Therefore, there will be no net increase in regional emissions of any criteria pollutant, and the impact will be less than significant.

4.3.2.2 Odor Analysis

The PEIR found that schools are not one of the types of land uses typically associated with malodorous emissions (wastewater treatment plants, fiberglass manufacturing facilities, etc.). Furthermore, while landscaping equipment, such as lawnmowers and leaf blowers, generates exhaust fumes, the odors would temporary. In any event, whatever odors are associated with campus operations will not change because of the Project. Short-term construction-related odors will cease upon drying of architectural coatings, or hardening of odor-producing materials. Therefore, odor impacts associated with the North Hollywood High School Comprehensive Modernization Project will be less than significant.

4.3.3 Conformity with Air Quality Management Plan

Neither the North Hollywood High School Comprehensive Modernization Project nor the SUP as a whole is a large, regionally significant project that would affect the regional growth projections made by the Southern California Association of Governments (SCAG) and use by the SCAQMD in formulating its AQMP. The student and faculty population at the school will not increase as a result of the Project. Finally, as discussed below, the projected emissions from the Project will 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.

31 All OEHHA Acute, 8-hour and Chronic Reference Exposure Levels (chRELs) as of June 2016. June 28, 2016 http://www.oehha.ca.gov/air/allrels.html.

5.0 EMISSION REDUCTION MEASURES

As discussed in **Section 4.3**, both the short-term and long-term air pollution impacts of the Project will be less than significant, especially with implementation of the standard conditions of approval listed in **Table 1.2-1**. Air quality-specific mitigation measures will not be necessary.

6.0 IMPACTS AFTER MITIGATION

No air quality mitigation measures will be necessary for this Project.

7.0 REFERENCES

ARB (State of California, Air Resources Board)
2013 "South Coast Air Basin 2012 PM2.5 and Ozone State Implementation Plans." Resolution 13-3. January 25.

BREEZE Software
2016 California Emissions Estimator Model. User's Guide, Version 2016.3.1. Prepared for the California Air Pollution Control Officers Association, in collaboration with South Coast Air Quality Management District and the California Air Districts. September.

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

Goldstene, J.N.
2013 Letter from Executive Officer, California Air Resources Board, Sacramento, California to J. Blumenthal, Regional Administrator, Region 9, U.S. Environmental Protection Agency, San Francisco, California. February 13. https://www.arb.ca.gov/planning/sip/planarea/scabsip/2012%20AQMP%20Submittal%20Letter%20to%20U.S.%20EPA.pdf.

LAUSD
2015 School Upgrade Program Los Angeles Unified School District Final Environmental Impact Report September 2015 https://achieve.lausd.net/cms/lib/CA01000043/Centricity/domain/135/pdf%20files/Final_EIR.pdf.

SCAQMD
1993 CEQA Air Quality Handbook: South Coast Air Quality Management District, Diamond Bar, CA.

Wallerstein, B.
2012 Letter from Executive Director, South Coast Air Quality Management District to James Goldstene, Executive Officer, California Air Resources Board and Deborah Jordan, Air Division Director, U.S. Environmental Protection Agency, Region IX. December 20.

ATTACHMENTS

ATTACHMENT 1

CALEEMOD OUTPUT

PHASE 1 ANNUAL OUTPUT

Noho High School

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	30.99	1000sqft	0.71	30,990.00	0
High School	155.10	1000sqft	3.56	155,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - g

Demolition -

Architectural Coating - g

Construction Off-road Equipment Mitigation -

Mobile Commute Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	232,650.00	134,262.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	230.00	340.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	8.00	50.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	5.00	6.00
tblConstructionPhase	PhaseEndDate	10/22/2020	5/3/2021
tblConstructionPhase	PhaseEndDate	9/2/2020	3/22/2021
tblConstructionPhase	PhaseEndDate	9/27/2019	9/13/2019
tblConstructionPhase	PhaseEndDate	10/16/2019	12/2/2019

tblConstructionPhase	PhaseEndDate	9/28/2020	5/3/2021
tblConstructionPhase	PhaseEndDate	10/4/2019	9/23/2019
tblConstructionPhase	PhaseStartDate	9/29/2020	3/23/2021
tblConstructionPhase	PhaseStartDate	10/17/2019	12/3/2019
tblConstructionPhase	PhaseStartDate	10/5/2019	9/24/2019
tblConstructionPhase	PhaseStartDate	9/3/2020	3/23/2021
tblConstructionPhase	PhaseStartDate	9/28/2019	9/16/2019
tblGrading	AcresOfGrading	25.00	4.00
tblGrading	MaterialExported	0.00	5,744.40
tblOffRoadEquipment	HorsePower	158.00	81.00
tblOffRoadEquipment	HorsePower	97.00	158.00
tblOffRoadEquipment	HorsePower	187.00	158.00
tblOffRoadEquipment	HorsePower	85.00	247.00
tblOffRoadEquipment	HorsePower	80.00	247.00
tblOffRoadEquipment	HorsePower	402.00	97.00
tblOffRoadEquipment	HorsePower	8.00	97.00
tblOffRoadEquipment	HorsePower	8.00	187.00
tblOffRoadEquipment	HorsePower	158.00	247.00
tblOffRoadEquipment	LoadFactor	0.38	0.73
tblOffRoadEquipment	LoadFactor	0.37	0.38
tblOffRoadEquipment	LoadFactor	0.41	0.38
tblOffRoadEquipment	LoadFactor	0.78	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	LoadFactor	0.43	0.37
tblOffRoadEquipment	LoadFactor	0.43	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.40

tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Excavators	Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblTripsAndVMT	WorkerTripNumber	25.00	18.00

tblTripsAndVMT	WorkerTripNumber	25.00	15.00
tblTripsAndVMT	WorkerTripNumber	25.00	18.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1585	1.6817	1.0344	2.3200e-003	0.2344	0.0790	0.3134	0.1197	0.0732	0.1929	0.0000	210.1632	210.1632	0.0498	0.0000	211.4093
2020	0.3369	2.9838	2.7046	5.6700e-003	0.1377	0.1493	0.2870	0.0372	0.1404	0.1776	0.0000	503.7785	503.7785	0.0836	0.0000	505.8675
2021	0.5831	0.7768	0.8017	1.6100e-003	0.0359	0.0378	0.0737	9.6600e-003	0.0355	0.0452	0.0000	142.2867	142.2867	0.0260	0.0000	142.9367
Maximum	**0.5831**	**2.9838**	**2.7046**	**5.6700e-003**	**0.2344**	**0.1493**	**0.3134**	**0.1197**	**0.1404**	**0.1929**	**0.0000**	**503.7785**	**503.7785**	**0.0836**	**0.0000**	**505.8675**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1585	1.6817	1.0344	2.3200e-003	0.1183	0.0790	0.1972	0.0573	0.0732	0.1305	0.0000	210.1630	210.1630	0.0498	0.0000	211.4091
2020	0.3369	2.9838	2.7046	5.6700e-003	0.1377	0.1493	0.2870	0.0372	0.1404	0.1776	0.0000	503.7782	503.7782	0.0836	0.0000	505.8672
2021	0.5831	0.7768	0.8017	1.6100e-003	0.0359	0.0378	0.0737	9.6600e-003	0.0355	0.0452	0.0000	142.2866	142.2866	0.0260	0.0000	142.9366
Maximum	**0.5831**	**2.9838**	**2.7046**	**5.6700e-003**	**0.1377**	**0.1493**	**0.2870**	**0.0573**	**0.1404**	**0.1776**	**0.0000**	**503.7782**	**503.7782**	**0.0836**	**0.0000**	**505.8672**

Noho High School - South Coast Air Basin, Annual

	ROG	NOx	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**	**28.47**	**0.00**	**17.23**	**37.47**	**0.00**	**15.01**	**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	**9-2-2019**	**12-1-2019**	1.4819	1.4819
2	**12-2-2019**	**3-1-2020**	0.8555	0.8555
3	**3-2-2020**	**6-1-2020**	0.8306	0.8306
4	**6-2-2020**	**9-1-2020**	0.8300	0.8300
5	**9-2-2020**	**12-1-2020**	0.8223	0.8223
6	**12-2-2020**	**3-1-2021**	0.7637	0.7637
7	**3-2-2021**	**6-1-2021**	0.8765	0.8765
		Highest	1.4819	1.4819

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	0.6350	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6200e-003	4.6200e-003	1.0000e-005	0.0000	4.9200e-003
Energy	8.7000e-003	0.0791	0.0664	4.7000e-004		6.0100e-003	6.0100e-003		6.0100e-003	6.0100e-003	0.0000	597.4756	597.4756	0.0137	4.0800e-003	599.0337
Mobile	0.4642	2.2368	7.0482	0.0285	2.5377	0.0203	2.5581	0.6799	0.0189	0.6988	0.0000	2,638.1458	2,638.1458	0.1164	0.0000	2,641.0554
Waste						0.0000	0.0000		0.0000	0.0000	40.9291	0.0000	40.9291	2.4188	0.0000	101.4000
Water						0.0000	0.0000		0.0000	0.0000	1.6339	119.2945	120.9283	0.1706	4.5500e-003	126.5486
Total	**1.1079**	**2.3159**	**7.1170**	**0.0290**	**2.5377**	**0.0263**	**2.5641**	**0.6799**	**0.0249**	**0.7049**	**42.5629**	**3,354.9204**	**3,397.4833**	**2.7196**	**8.6300e-003**	**3,468.0427**

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	0.6350	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6200e-003	4.6200e-003	1.0000e-005	0.0000	4.9200e-003
Energy	8.7000e-003	0.0791	0.0664	4.7000e-004		6.0100e-003	6.0100e-003		6.0100e-003	6.0100e-003	0.0000	597.4756	597.4756	0.0137	4.0800e-003	599.0337
Mobile	0.4642	2.2368	7.0482	0.0285	2.5377	0.0203	2.5581	0.6799	0.0189	0.6988	0.0000	2,638.1458	2,638.1458	0.1164	0.0000	2,641.0554
Waste						0.0000	0.0000		0.0000	0.0000	40.9291	0.0000	40.9291	2.4188	0.0000	101.4000
Water						0.0000	0.0000		0.0000	0.0000	1.6339	119.2945	120.9283	0.1706	4.5500e-003	126.5486
Total	**1.1079**	**2.3159**	**7.1170**	**0.0290**	**2.5377**	**0.0263**	**2.5641**	**0.6799**	**0.0249**	**0.7049**	**42.5629**	**3,354.9204**	**3,397.4833**	**2.7196**	**8.6300e-003**	**3,468.0427**

	ROG	NOx	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	9/2/2019	9/13/2019	5	10	
2	Site Preparation	Site Preparation	9/16/2019	9/23/2019	5	6	
3	Grading	Grading	9/24/2019	12/2/2019	5	50	
4	Building Construction	Building Construction	12/3/2019	3/22/2021	5	340	
5	Paving	Paving	3/23/2021	5/3/2021	5	30	
6	Architectural Coating	Architectural Coating	3/23/2021	5/3/2021	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.71

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 134,262; Non-Residential Outdoor: 77,550; Striped Parking Area: 1,859 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Excavators	1	8.00	81	0.73
Demolition	Tractors/Loaders/Backhoes	1	6.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Graders	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Crushing/Proc. Equipment	1	6.00	247	0.40

Grading	Rollers	2	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Off-Highway Trucks	1	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Plate Compactors	1	8.00	97	0.37
Grading	Plate Compactors	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Excavators	1	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Air Compressors	1	8.00	78	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Trenchers	1	8.00	78	0.50
Site Preparation	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	78.00	31.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	10	18.00	0.00	37.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	15.00	0.00	718.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	10	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9800e-003	0.0000	3.9800e-003	6.0000e-004	0.0000	6.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0246	0.2419	0.1457	3.1000e-004		0.0119	0.0119		0.0111	0.0111	0.0000	27.2230	27.2230	6.6500e-003	0.0000	27.3893
Total	**0.0246**	**0.2419**	**0.1457**	**3.1000e-004**	**3.9800e-003**	**0.0119**	**0.0158**	**6.0000e-004**	**0.0111**	**0.0117**	**0.0000**	**27.2230**	**27.2230**	**6.6500e-003**	**0.0000**	**27.3893**

3.2 Demolition - 2019

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	5.6900e-003	1.1400e-003	1.0000e-005	3.2000e-004	2.0000e-005	3.4000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.4180	1.4180	1.0000e-004	0.0000	1.4206
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	3.5000e-004	3.7600e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9182	0.9182	3.0000e-005	0.0000	0.9189
Total	**5.9000e-004**	**6.0400e-003**	**4.9000e-003**	**2.0000e-005**	**1.3100e-003**	**3.0000e-005**	**1.3400e-003**	**3.5000e-004**	**3.0000e-005**	**3.8000e-004**	**0.0000**	**2.3362**	**2.3362**	**1.3000e-004**	**0.0000**	**2.3395**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.7900e-003	0.0000	1.7900e-003	2.7000e-004	0.0000	2.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0246	0.2419	0.1457	3.1000e-004		0.0119	0.0119		0.0111	0.0111	0.0000	27.2230	27.2230	6.6500e-003	0.0000	27.3892
Total	**0.0246**	**0.2419**	**0.1457**	**3.1000e-004**	**1.7900e-003**	**0.0119**	**0.0137**	**2.7000e-004**	**0.0111**	**0.0114**	**0.0000**	**27.2230**	**27.2230**	**6.6500e-003**	**0.0000**	**27.3892**

3.2 Demolition - 2019

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	5.6900e-003	1.1400e-003	1.0000e-005	3.2000e-004	2.0000e-005	3.4000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.4180	1.4180	1.0000e-004	0.0000	1.4206
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	3.5000e-004	3.7600e-003	1.0000e-005	9.9000e-004	1.0000e-005	1.0000e-003	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.9182	0.9182	3.0000e-005	0.0000	0.9189
Total	**5.9000e-004**	**6.0400e-003**	**4.9000e-003**	**2.0000e-005**	**1.3100e-003**	**3.0000e-005**	**1.3400e-003**	**3.5000e-004**	**3.0000e-005**	**3.8000e-004**	**0.0000**	**2.3362**	**2.3362**	**1.3000e-004**	**0.0000**	**2.3395**

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0542	0.0000	0.0542	0.0298	0.0000	0.0298	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0163	0.1709	0.0811	1.8000e-004		8.3900e-003	8.3900e-003		7.7200e-003	7.7200e-003	0.0000	15.7657	15.7657	4.9900e-003	0.0000	15.8904
Total	**0.0163**	**0.1709**	**0.0811**	**1.8000e-004**	**0.0542**	**8.3900e-003**	**0.0626**	**0.0298**	**7.7200e-003**	**0.0375**	**0.0000**	**15.7657**	**15.7657**	**4.9900e-003**	**0.0000**	**15.8904**

3.3 Site Preparation - 2019

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	2.6000e-004	2.1000e-004	2.2600e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5509	0.5509	2.0000e-005	0.0000	0.5514
Total	**2.6000e-004**	**2.1000e-004**	**2.2600e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**6.0000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5509**	**0.5509**	**2.0000e-005**	**0.0000**	**0.5514**

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					0.0244	0.0000	0.0244	0.0134	0.0000	0.0134	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0163	0.1709	0.0811	1.8000e-004		8.3900e-003	8.3900e-003		7.7200e-003	7.7200e-003	0.0000	15.7657	15.7657	4.9900e-003	0.0000	15.8904
Total	**0.0163**	**0.1709**	**0.0811**	**1.8000e-004**	**0.0244**	**8.3900e-003**	**0.0328**	**0.0134**	**7.7200e-003**	**0.0211**	**0.0000**	**15.7657**	**15.7657**	**4.9900e-003**	**0.0000**	**15.8904**

3.3 Site Preparation - 2019

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	2.6000e-004	2.1000e-004	2.2600e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5509	0.5509	2.0000e-005	0.0000	0.5514
Total	**2.6000e-004**	**2.1000e-004**	**2.2600e-003**	**1.0000e-005**	**5.9000e-004**	**0.0000**	**6.0000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5509**	**0.5509**	**2.0000e-005**	**0.0000**	**0.5514**

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1530	0.0000	0.1530	0.0830	0.0000	0.0830	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0819	0.8883	0.5385	1.0200e-003		0.0444	0.0444		0.0408	0.0408	0.0000	91.8888	91.8888	0.0291	0.0000	92.6156
Total	**0.0819**	**0.8883**	**0.5385**	**1.0200e-003**	**0.1530**	**0.0444**	**0.1974**	**0.0830**	**0.0408**	**0.1239**	**0.0000**	**91.8888**	**91.8888**	**0.0291**	**0.0000**	**92.6156**

3.4 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.1300e-003	0.1104	0.0221	2.8000e-004	6.1700e-003	4.0000e-004	6.5700e-003	1.6900e-003	3.9000e-004	2.0800e-003	0.0000	27.5164	27.5164	2.0200e-003	0.0000	27.5669
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	1.8100e-003	1.4400e-003	0.0157	4.0000e-005	4.1100e-003	3.0000e-005	4.1500e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	3.8259	3.8259	1.2000e-004	0.0000	3.8289
Total	**4.9400e-003**	**0.1119**	**0.0377**	**3.2000e-004**	**0.0103**	**4.3000e-004**	**0.0107**	**2.7800e-003**	**4.2000e-004**	**3.2000e-003**	**0.0000**	**31.3423**	**31.3423**	**2.1400e-003**	**0.0000**	**31.3959**

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					0.0689	0.0000	0.0689	0.0374	0.0000	0.0374	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0819	0.8883	0.5385	1.0200e-003		0.0444	0.0444		0.0408	0.0408	0.0000	91.8887	91.8887	0.0291	0.0000	92.6155
Total	**0.0819**	**0.8883**	**0.5385**	**1.0200e-003**	**0.0689**	**0.0444**	**0.1132**	**0.0374**	**0.0408**	**0.0782**	**0.0000**	**91.8887**	**91.8887**	**0.0291**	**0.0000**	**92.6155**

3.4 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.1300e-003	0.1104	0.0221	2.8000e-004	6.1700e-003	4.0000e-004	6.5700e-003	1.6900e-003	3.9000e-004	2.0800e-003	0.0000	27.5164	27.5164	2.0200e-003	0.0000	27.5669
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	1.8100e-003	1.4400e-003	0.0157	4.0000e-005	4.1100e-003	3.0000e-005	4.1500e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	3.8259	3.8259	1.2000e-004	0.0000	3.8289
Total	**4.9400e-003**	**0.1119**	**0.0377**	**3.2000e-004**	**0.0103**	**4.3000e-004**	**0.0107**	**2.7800e-003**	**4.2000e-004**	**3.2000e-003**	**0.0000**	**31.3423**	**31.3423**	**2.1400e-003**	**0.0000**	**31.3959**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0248	0.2213	0.1802	2.8000e-004		0.0135	0.0135		0.0127	0.0127	0.0000	24.6859	24.6859	6.0100e-003	0.0000	24.8363
Total	**0.0248**	**0.2213**	**0.1802**	**2.8000e-004**		**0.0135**	**0.0135**		**0.0127**	**0.0127**	**0.0000**	**24.6859**	**24.6859**	**6.0100e-003**	**0.0000**	**24.8363**

3.5 Building Construction - 2019

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	1.2900e-003	0.0381	9.7200e-003	8.0000e-005	2.0500e-003	2.5000e-004	2.3000e-003	5.9000e-004	2.4000e-004	8.3000e-004	0.0000	8.0146	8.0146	5.6000e-004	0.0000	8.0287
Worker	3.9400e-003	3.1500e-003	0.0342	9.0000e-005	8.9900e-003	7.0000e-005	9.0600e-003	2.3900e-003	7.0000e-005	2.4500e-003	0.0000	8.3558	8.3558	2.6000e-004	0.0000	8.3624
Total	**5.2300e-003**	**0.0413**	**0.0439**	**1.7000e-004**	**0.0110**	**3.2000e-004**	**0.0114**	**2.9800e-003**	**3.1000e-004**	**3.2800e-003**	**0.0000**	**16.3704**	**16.3704**	**8.2000e-004**	**0.0000**	**16.3910**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0248	0.2213	0.1802	2.8000e-004		0.0135	0.0135		0.0127	0.0127	0.0000	24.6859	24.6859	6.0100e-003	0.0000	24.8363
Total	**0.0248**	**0.2213**	**0.1802**	**2.8000e-004**		**0.0135**	**0.0135**		**0.0127**	**0.0127**	**0.0000**	**24.6859**	**24.6859**	**6.0100e-003**	**0.0000**	**24.8363**

3.5 Building Construction - 2019

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	1.2900e-003	0.0381	9.7200e-003	8.0000e-005	2.0500e-003	2.5000e-004	2.3000e-003	5.9000e-004	2.4000e-004	8.3000e-004	0.0000	8.0146	8.0146	5.6000e-004	0.0000	8.0287
Worker	3.9400e-003	3.1500e-003	0.0342	9.0000e-005	8.9900e-003	7.0000e-005	9.0600e-003	2.3900e-003	7.0000e-005	2.4500e-003	0.0000	8.3558	8.3558	2.6000e-004	0.0000	8.3624
Total	**5.2300e-003**	**0.0413**	**0.0439**	**1.7000e-004**	**0.0110**	**3.2000e-004**	**0.0114**	**2.9800e-003**	**3.1000e-004**	**3.2800e-003**	**0.0000**	**16.3704**	**16.3704**	**8.2000e-004**	**0.0000**	**16.3910**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4091**	**303.4091**	**0.0740**	**0.0000**	**305.2596**

3.5 Building Construction - 2020

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	0.0138	0.4355	0.1098	1.0200e-003	0.0256	2.1300e-003	0.0277	7.3800e-003	2.0400e-003	9.4200e-003	0.0000	99.3513	99.3513	6.6300e-003	0.0000	99.5170
Worker	0.0455	0.0350	0.3876	1.1200e-003	0.1121	8.7000e-004	0.1130	0.0298	8.0000e-004	0.0306	0.0000	101.0182	101.0182	2.9100e-003	0.0000	101.0909
Total	**0.0592**	**0.4705**	**0.4974**	**2.1400e-003**	**0.1377**	**3.0000e-003**	**0.1407**	**0.0372**	**2.8400e-003**	**0.0400**	**0.0000**	**200.3695**	**200.3695**	**9.5400e-003**	**0.0000**	**200.6079**

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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4087**	**303.4087**	**0.0740**	**0.0000**	**305.2592**

3.5 Building Construction - 2020

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	0.0138	0.4355	0.1098	1.0200e-003	0.0256	2.1300e-003	0.0277	7.3800e-003	2.0400e-003	9.4200e-003	0.0000	99.3513	99.3513	6.6300e-003	0.0000	99.5170
Worker	0.0455	0.0350	0.3876	1.1200e-003	0.1121	8.7000e-004	0.1130	0.0298	8.0000e-004	0.0306	0.0000	101.0182	101.0182	2.9100e-003	0.0000	101.0909
Total	**0.0592**	**0.4705**	**0.4974**	**2.1400e-003**	**0.1377**	**3.0000e-003**	**0.1407**	**0.0372**	**2.8400e-003**	**0.0400**	**0.0000**	**200.3695**	**200.3695**	**9.5400e-003**	**0.0000**	**200.6079**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0542	0.4968	0.4724	7.7000e-004		0.0273	0.0273		0.0257	0.0257	0.0000	66.0166	66.0166	0.0159	0.0000	66.4148
Total	**0.0542**	**0.4968**	**0.4724**	**7.7000e-004**		**0.0273**	**0.0273**		**0.0257**	**0.0257**	**0.0000**	**66.0166**	**66.0166**	**0.0159**	**0.0000**	**66.4148**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5400e-003	0.0859	0.0217	2.2000e-004	5.5700e-003	1.8000e-004	5.7400e-003	1.6100e-003	1.7000e-004	1.7700e-003	0.0000	21.4520	21.4520	1.3800e-003	0.0000	21.4865
Worker	9.2400e-003	6.8600e-003	0.0776	2.4000e-004	0.0244	1.8000e-004	0.0246	6.4800e-003	1.7000e-004	6.6500e-003	0.0000	21.2664	21.2664	5.7000e-004	0.0000	21.2807
Total	**0.0118**	**0.0928**	**0.0993**	**4.6000e-004**	**0.0300**	**3.6000e-004**	**0.0303**	**8.0900e-003**	**3.4000e-004**	**8.4200e-003**	**0.0000**	**42.7183**	**42.7183**	**1.9500e-003**	**0.0000**	**42.7672**

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	0.0542	0.4968	0.4724	7.7000e-004		0.0273	0.0273		0.0257	0.0257	0.0000	66.0166	66.0166	0.0159	0.0000	66.4147
Total	**0.0542**	**0.4968**	**0.4724**	**7.7000e-004**		**0.0273**	**0.0273**		**0.0257**	**0.0257**	**0.0000**	**66.0166**	**66.0166**	**0.0159**	**0.0000**	**66.4147**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5400e-003	0.0859	0.0217	2.2000e-004	5.5700e-003	1.8000e-004	5.7400e-003	1.6100e-003	1.7000e-004	1.7700e-003	0.0000	21.4520	21.4520	1.3800e-003	0.0000	21.4865
Worker	9.2400e-003	6.8600e-003	0.0776	2.4000e-004	0.0244	1.8000e-004	0.0246	6.4800e-003	1.7000e-004	6.6500e-003	0.0000	21.2664	21.2664	5.7000e-004	0.0000	21.2807
Total	**0.0118**	**0.0928**	**0.0993**	**4.6000e-004**	**0.0300**	**3.6000e-004**	**0.0303**	**8.0900e-003**	**3.4000e-004**	**8.4200e-003**	**0.0000**	**42.7183**	**42.7183**	**1.9500e-003**	**0.0000**	**42.7672**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0164	0.1626	0.1839	2.8000e-004		8.6800e-003	8.6800e-003		8.0100e-003	8.0100e-003	0.0000	24.5559	24.5559	7.7200e-003	0.0000	24.7488
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0164**	**0.1626**	**0.1839**	**2.8000e-004**		**8.6800e-003**	**8.6800e-003**		**8.0100e-003**	**8.0100e-003**	**0.0000**	**24.5559**	**24.5559**	**7.7200e-003**	**0.0000**	**24.7488**

3.6 Paving - 2021

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	1.2500e-003	9.3000e-004	0.0105	3.0000e-005	3.2900e-003	2.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.8700	2.8700	8.0000e-005	0.0000	2.8719
Total	**1.2500e-003**	**9.3000e-004**	**0.0105**	**3.0000e-005**	**3.2900e-003**	**2.0000e-005**	**3.3200e-003**	**8.7000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.8700**	**2.8700**	**8.0000e-005**	**0.0000**	**2.8719**

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	0.0164	0.1626	0.1839	2.8000e-004		8.6800e-003	8.6800e-003		8.0100e-003	8.0100e-003	0.0000	24.5559	24.5559	7.7200e-003	0.0000	24.7488
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0164**	**0.1626**	**0.1839**	**2.8000e-004**		**8.6800e-003**	**8.6800e-003**		**8.0100e-003**	**8.0100e-003**	**0.0000**	**24.5559**	**24.5559**	**7.7200e-003**	**0.0000**	**24.7488**

3.6 Paving - 2021

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	1.2500e-003	9.3000e-004	0.0105	3.0000e-005	3.2900e-003	2.0000e-005	3.3200e-003	8.7000e-004	2.0000e-005	9.0000e-004	0.0000	2.8700	2.8700	8.0000e-005	0.0000	2.8719
Total	**1.2500e-003**	**9.3000e-004**	**0.0105**	**3.0000e-005**	**3.2900e-003**	**2.0000e-005**	**3.3200e-003**	**8.7000e-004**	**2.0000e-005**	**9.0000e-004**	**0.0000**	**2.8700**	**2.8700**	**8.0000e-005**	**0.0000**	**2.8719**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4952					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2800e-003	0.0229	0.0273	4.0000e-005		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	3.8299	3.8299	2.6000e-004	0.0000	3.8365
Total	**0.4985**	**0.0229**	**0.0273**	**4.0000e-005**		**1.4100e-003**	**1.4100e-003**		**1.4100e-003**	**1.4100e-003**	**0.0000**	**3.8299**	**3.8299**	**2.6000e-004**	**0.0000**	**3.8365**

3.7 Architectural Coating - 2021

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	1.0000e-003	7.4000e-004	8.3800e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2960	2.2960	6.0000e-005	0.0000	2.2975
Total	**1.0000e-003**	**7.4000e-004**	**8.3800e-003**	**3.0000e-005**	**2.6300e-003**	**2.0000e-005**	**2.6500e-003**	**7.0000e-004**	**2.0000e-005**	**7.2000e-004**	**0.0000**	**2.2960**	**2.2960**	**6.0000e-005**	**0.0000**	**2.2975**

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	0.4952					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2800e-003	0.0229	0.0273	4.0000e-005		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	3.8299	3.8299	2.6000e-004	0.0000	3.8365
Total	**0.4985**	**0.0229**	**0.0273**	**4.0000e-005**		**1.4100e-003**	**1.4100e-003**		**1.4100e-003**	**1.4100e-003**	**0.0000**	**3.8299**	**3.8299**	**2.6000e-004**	**0.0000**	**3.8365**

3.7 Architectural Coating - 2021

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	1.0000e-003	7.4000e-004	8.3800e-003	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.2960	2.2960	6.0000e-005	0.0000	2.2975
Total	**1.0000e-003**	**7.4000e-004**	**8.3800e-003**	**3.0000e-005**	**2.6300e-003**	**2.0000e-005**	**2.6500e-003**	**7.0000e-004**	**2.0000e-005**	**7.2000e-004**	**0.0000**	**2.2960**	**2.2960**	**6.0000e-005**	**0.0000**	**2.2975**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive 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	0.4642	2.2368	7.0482	0.0285	2.5377	0.0203	2.5581	0.6799	0.0189	0.6988	0.0000	2,638.1458	2,638.1458	0.1164	0.0000	2,641.0554
Unmitigated	0.4642	2.2368	7.0482	0.0285	2.5377	0.0203	2.5581	0.6799	0.0189	0.6988	0.0000	2,638.1458	2,638.1458	0.1164	0.0000	2,641.0554

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	1,999.24	677.79	277.63	6,681,707	6,681,707
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,999.24	677.79	277.63	6,681,707	6,681,707

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Non-Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869

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	511.3976	511.3976	0.0121	2.5000e-003	512.4443
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	511.3976	511.3976	0.0121	2.5000e-003	512.4443
NaturalGas Mitigated	8.7000e-003	0.0791	0.0664	4.7000e-004		6.0100e-003	6.0100e-003		6.0100e-003	6.0100e-003	0.0000	86.0780	86.0780	1.6500e-003	1.5800e-003	86.5895
NaturalGas Unmitigated	8.7000e-003	0.0791	0.0664	4.7000e-004		6.0100e-003	6.0100e-003		6.0100e-003	6.0100e-003	0.0000	86.0780	86.0780	1.6500e-003	1.5800e-003	86.5895

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	1.61304e+006	8.7000e-003	0.0791	0.0664	4.7000e-004		6.0100e-003	6.0100e-003		6.0100e-003	6.0100e-003	0.0000	86.0780	86.0780	1.6500e-003	1.5800e-003	86.5895
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**8.7000e-003**	**0.0791**	**0.0664**	**4.7000e-004**		**6.0100e-003**	**6.0100e-003**		**6.0100e-003**	**6.0100e-003**	**0.0000**	**86.0780**	**86.0780**	**1.6500e-003**	**1.5800e-003**	**86.5895**

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	1.61304e+006	8.7000e-003	0.0791	0.0664	4.7000e-004		6.0100e-003	6.0100e-003		6.0100e-003	6.0100e-003	0.0000	86.0780	86.0780	1.6500e-003	1.5800e-003	86.5895
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**8.7000e-003**	**0.0791**	**0.0664**	**4.7000e-004**		**6.0100e-003**	**6.0100e-003**		**6.0100e-003**	**6.0100e-003**	**0.0000**	**86.0780**	**86.0780**	**1.6500e-003**	**1.5800e-003**	**86.5895**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High School	918192	511.3976	0.0121	2.5000e-003	512.4443
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**511.3976**	**0.0121**	**2.5000e-003**	**512.4443**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High School	918192	511.3976	0.0121	2.5000e-003	512.4443
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**511.3976**	**0.0121**	**2.5000e-003**	**512.4443**

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	0.6350	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6200e-003	4.6200e-003	1.0000e-005	0.0000	4.9200e-003
Unmitigated	0.6350	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6200e-003	4.6200e-003	1.0000e-005	0.0000	4.9200e-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	0.0723					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2000e-004	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6200e-003	4.6200e-003	1.0000e-005	0.0000	4.9200e-003
Total	**0.6350**	**2.0000e-005**	**2.3700e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.6200e-003**	**4.6200e-003**	**1.0000e-005**	**0.0000**	**4.9200e-003**

6.2 Area by SubCategory

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	0.0723					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5625					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.2000e-004	2.0000e-005	2.3700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6200e-003	4.6200e-003	1.0000e-005	0.0000	4.9200e-003
Total	**0.6350**	**2.0000e-005**	**2.3700e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.6200e-003**	**4.6200e-003**	**1.0000e-005**	**0.0000**	**4.9200e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	120.9283	0.1706	4.5500e-003	126.5486
Unmitigated	120.9283	0.1706	4.5500e-003	126.5486

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High School	5.15004 / 13.243	120.9283	0.1706	4.5500e-003	126.5486
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**120.9283**	**0.1706**	**4.5500e-003**	**126.5486**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High School	5.15004 / 13.243	120.9283	0.1706	4.5500e-003	126.5486
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**120.9283**	**0.1706**	**4.5500e-003**	**126.5486**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	40.9291	2.4188	0.0000	101.4000
Unmitigated	40.9291	2.4188	0.0000	101.4000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High School	201.63	40.9291	2.4188	0.0000	101.4000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**40.9291**	**2.4188**	**0.0000**	**101.4000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High School	201.63	40.9291	2.4188	0.0000	101.4000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**40.9291**	**2.4188**	**0.0000**	**101.4000**

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

PHASE 2 ANNUAL OUTPUT

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	48.30	1000sqft	1.11	48,300.00	0
Other Non-Asphalt Surfaces	85.88	1000sqft	1.97	85,880.00	0
Other Asphalt Surfaces	41.07	1000sqft	0.94	41,071.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment -

Off-road Equipment - g

Off-road Equipment -

Demolition -

Architectural Coating - g

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	72,450.00	44,895.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	230.00	433.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	5.00	87.00
tblConstructionPhase	PhaseEndDate	3/23/2021	1/26/2022
tblConstructionPhase	PhaseEndDate	2/1/2021	1/26/2022
tblConstructionPhase	PhaseEndDate	2/26/2020	5/29/2020
tblConstructionPhase	PhaseEndDate	2/25/2021	12/15/2021
tblConstructionPhase	PhaseEndDate	3/4/2020	9/29/2020
tblConstructionPhase	PhaseStartDate	2/26/2021	12/16/2021
tblConstructionPhase	PhaseStartDate	3/17/2020	6/1/2020

tblConstructionPhase	PhaseStartDate	2/2/2021	11/4/2021
tblConstructionPhase	PhaseStartDate	2/27/2020	6/1/2020
tblOffRoadEquipment	LoadFactor	0.37	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	29.00
tblTripsAndVMT	WorkerTripNumber	23.00	15.00
tblTripsAndVMT	WorkerTripNumber	23.00	15.00
tblTripsAndVMT	WorkerTripNumber	30.00	25.00
tblTripsAndVMT	WorkerTripNumber	30.00	25.00

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					
2020	0.6081	5.7563	3.8954	7.9400e-003	0.9169	0.2882	1.2051	0.4629	0.2697	0.7326	0.0000	699.6891	699.6891	0.1522	0.0000	703.4931
2021	0.4322	3.2884	3.0348	6.3700e-003	0.1508	0.1557	0.3065	0.0405	0.1459	0.1863	0.0000	565.1294	565.1294	0.1010	0.0000	567.6548
2022	0.1276	0.1795	0.1955	4.2000e-004	0.0104	8.1300e-003	0.0186	2.8100e-003	7.6900e-003	0.0105	0.0000	36.8228	36.8228	5.7300e-003	0.0000	36.9660
Maximum	**0.6081**	**5.7563**	**3.8954**	**7.9400e-003**	**0.9169**	**0.2882**	**1.2051**	**0.4629**	**0.2697**	**0.7326**	**0.0000**	**699.6891**	**699.6891**	**0.1522**	**0.0000**	**703.4931**

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					
2020	0.6081	5.7563	3.8954	7.9400e-003	0.4642	0.2882	0.7524	0.2222	0.2697	0.4919	0.0000	699.6884	699.6884	0.1522	0.0000	703.4924
2021	0.4322	3.2884	3.0348	6.3700e-003	0.1508	0.1557	0.3065	0.0405	0.1459	0.1863	0.0000	565.1290	565.1290	0.1010	0.0000	567.6544
2022	0.1276	0.1795	0.1955	4.2000e-004	0.0104	8.1300e-003	0.0186	2.8100e-003	7.6900e-003	0.0105	0.0000	36.8228	36.8228	5.7300e-003	0.0000	36.9659
Maximum	**0.6081**	**5.7563**	**3.8954**	**7.9400e-003**	**0.4642**	**0.2882**	**0.7524**	**0.2222**	**0.2697**	**0.4919**	**0.0000**	**699.6884**	**699.6884**	**0.1522**	**0.0000**	**703.4924**

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	ROG	NOx	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**	**41.99**	**0.00**	**29.58**	**47.55**	**0.00**	**25.90**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-30-2020**	**4-29-2020**	1.5645	1.5645
2	**4-30-2020**	**7-29-2020**	2.1745	2.1745
3	**7-30-2020**	**10-29-2020**	2.0119	2.0119
4	**10-30-2020**	**1-29-2021**	0.7998	0.7998
5	**1-30-2021**	**4-29-2021**	0.7308	0.7308
6	**4-30-2021**	**7-29-2021**	0.7379	0.7379
7	**7-30-2021**	**10-29-2021**	0.7465	0.7465
8	**10-30-2021**	**1-29-2022**	1.5730	1.5730
		Highest	2.1745	2.1745

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	0.2071	2.0000e-005	2.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3500e-003	4.3500e-003	1.0000e-005	0.0000	4.6300e-003
Energy	2.7100e-003	0.0246	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	186.0611	186.0611	4.2800e-003	1.2700e-003	186.5463
Mobile	0.1446	0.6966	2.1949	8.8900e-003	0.7903	6.3300e-003	0.7966	0.2117	5.8900e-003	0.2176	0.0000	821.5502	821.5502	0.0362	0.0000	822.4563
Waste						0.0000	0.0000		0.0000	0.0000	12.7458	0.0000	12.7458	0.7533	0.0000	31.5772
Water						0.0000	0.0000		0.0000	0.0000	0.5088	37.1497	37.6585	0.0531	1.4200e-003	39.4088
Total	**0.3544**	**0.7212**	**2.2178**	**9.0400e-003**	**0.7903**	**8.2100e-003**	**0.7985**	**0.2117**	**7.7700e-003**	**0.2195**	**13.2546**	**1,044.7654**	**1,058.0200**	**0.8469**	**2.6900e-003**	**1,079.9932**

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	0.2071	2.0000e-005	2.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3500e-003	4.3500e-003	1.0000e-005	0.0000	4.6300e-003
Energy	2.7100e-003	0.0246	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	186.0611	186.0611	4.2800e-003	1.2700e-003	186.5463
Mobile	0.1446	0.6966	2.1949	8.8900e-003	0.7903	6.3300e-003	0.7966	0.2117	5.8900e-003	0.2176	0.0000	821.5502	821.5502	0.0362	0.0000	822.4563
Waste						0.0000	0.0000		0.0000	0.0000	12.7458	0.0000	12.7458	0.7533	0.0000	31.5772
Water						0.0000	0.0000		0.0000	0.0000	0.5088	37.1497	37.6585	0.0531	1.4200e-003	39.4088
Total	**0.3544**	**0.7212**	**2.2178**	**9.0400e-003**	**0.7903**	**8.2100e-003**	**0.7985**	**0.2117**	**7.7700e-003**	**0.2195**	**13.2546**	**1,044.7654**	**1,058.0200**	**0.8469**	**2.6900e-003**	**1,079.9932**

	ROG	NOx	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	1/30/2020	5/29/2020	5	87	
2	Renovation	Site Preparation	6/1/2020	9/29/2020	5	87	
3	Building Construction	Building Construction	6/1/2020	1/26/2022	5	433	
4	Asphalt Paving	Paving	11/4/2021	12/15/2021	5	30	
5	Architectural Coating	Architectural Coating	12/16/2021	1/26/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.91

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 44,895; Non-Residential Outdoor: 24,150; Striped Parking Area: 7,617 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Concrete Paving	Air Compressors	1	6.00	78	0.48
Concrete Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.36
Demolition	Excavators	1	8.00	158	0.38
Asphalt Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt Paving	Excavators	1	6.00	158	0.38
Concrete Paving	Pavers	1	8.00	130	0.42
Concrete Paving	Rollers	2	6.00	80	0.38
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Asphalt Paving	Rubber Tired Dozers	2	8.00	247	0.40

Asphalt Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Asphalt Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Concrete Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Renovation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Renovation	Rubber Tired Dozers	3	8.00	247	0.40
Concrete Paving	Paving Equipment	2	6.00	132	0.36
Renovation	Cranes	1	8.00	231	0.29
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Asphalt Paving	Pavers	2	8.00	130	0.42
Asphalt Paving	Paving Equipment	1	6.00	132	0.36
Asphalt Paving	Rollers	2	6.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Air Compressors	1	8.00	78	0.48
Renovation	Forklifts	2	8.00	89	0.20
Renovation	Generator Sets	1	8.00	84	0.74
Renovation	Welders	1	6.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	9	15.00	0.00	343.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Renovation	9	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	12	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	12	25.00	29.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	74.00	29.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0371	0.0000	0.0371	5.6200e-003	0.0000	5.6200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1940	1.8452	1.2093	2.4100e-003		0.0926	0.0926		0.0870	0.0870	0.0000	210.1373	210.1373	0.0533	0.0000	211.4705
Total	**0.1940**	**1.8452**	**1.2093**	**2.4100e-003**	**0.0371**	**0.0926**	**0.1297**	**5.6200e-003**	**0.0870**	**0.0926**	**0.0000**	**210.1373**	**210.1373**	**0.0533**	**0.0000**	**211.4705**

3.2 Demolition - 2020

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	1.3800e-003	0.0493	0.0102	1.3000e-004	2.9500e-003	1.6000e-004	3.1000e-003	8.1000e-004	1.5000e-004	9.6000e-004	0.0000	13.0122	13.0122	9.4000e-004	0.0000	13.0358
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	2.9000e-003	2.2400e-003	0.0248	7.0000e-005	7.1600e-003	6.0000e-005	7.2100e-003	1.9000e-003	5.0000e-005	1.9500e-003	0.0000	6.4508	6.4508	1.9000e-004	0.0000	6.4555
Total	**4.2800e-003**	**0.0516**	**0.0350**	**2.0000e-004**	**0.0101**	**2.2000e-004**	**0.0103**	**2.7100e-003**	**2.0000e-004**	**2.9100e-003**	**0.0000**	**19.4630**	**19.4630**	**1.1300e-003**	**0.0000**	**19.4913**

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	0.1940	1.8452	1.2093	2.4100e-003		0.0926	0.0926		0.0870	0.0870	0.0000	210.1370	210.1370	0.0533	0.0000	211.4703
Total	**0.1940**	**1.8452**	**1.2093**	**2.4100e-003**	**0.0167**	**0.0926**	**0.1093**	**2.5300e-003**	**0.0870**	**0.0895**	**0.0000**	**210.1370**	**210.1370**	**0.0533**	**0.0000**	**211.4703**

3.2 Demolition - 2020

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	1.3800e-003	0.0493	0.0102	1.3000e-004	2.9500e-003	1.6000e-004	3.1000e-003	8.1000e-004	1.5000e-004	9.6000e-004	0.0000	13.0122	13.0122	9.4000e-004	0.0000	13.0358
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	2.9000e-003	2.2400e-003	0.0248	7.0000e-005	7.1600e-003	6.0000e-005	7.2100e-003	1.9000e-003	5.0000e-005	1.9500e-003	0.0000	6.4508	6.4508	1.9000e-004	0.0000	6.4555
Total	**4.2800e-003**	**0.0516**	**0.0350**	**2.0000e-004**	**0.0101**	**2.2000e-004**	**0.0103**	**2.7100e-003**	**2.0000e-004**	**2.9100e-003**	**0.0000**	**19.4630**	**19.4630**	**1.1300e-003**	**0.0000**	**19.4913**

3.3 Renovation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7859	0.0000	0.7859	0.4320	0.0000	0.4320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2108	2.1210	1.0524	2.0000e-003		0.1077	0.1077		0.1000	0.1000	0.0000	174.3364	174.3364	0.0487	0.0000	175.5549
Total	**0.2108**	**2.1210**	**1.0524**	**2.0000e-003**	**0.7859**	**0.1077**	**0.8936**	**0.4320**	**0.1000**	**0.5320**	**0.0000**	**174.3364**	**174.3364**	**0.0487**	**0.0000**	**175.5549**

3.3 Renovation - 2020

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	2.9000e-003	2.2400e-003	0.0248	7.0000e-005	7.1600e-003	6.0000e-005	7.2100e-003	1.9000e-003	5.0000e-005	1.9500e-003	0.0000	6.4508	6.4508	1.9000e-004	0.0000	6.4555
Total	**2.9000e-003**	**2.2400e-003**	**0.0248**	**7.0000e-005**	**7.1600e-003**	**6.0000e-005**	**7.2100e-003**	**1.9000e-003**	**5.0000e-005**	**1.9500e-003**	**0.0000**	**6.4508**	**6.4508**	**1.9000e-004**	**0.0000**	**6.4555**

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					0.3537	0.0000	0.3537	0.1944	0.0000	0.1944	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2108	2.1210	1.0524	2.0000e-003		0.1077	0.1077		0.1000	0.1000	0.0000	174.3362	174.3362	0.0487	0.0000	175.5547
Total	**0.2108**	**2.1210**	**1.0524**	**2.0000e-003**	**0.3537**	**0.1077**	**0.4614**	**0.1944**	**0.1000**	**0.2944**	**0.0000**	**174.3362**	**174.3362**	**0.0487**	**0.0000**	**175.5547**

3.3 Renovation - 2020

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	2.9000e-003	2.2400e-003	0.0248	7.0000e-005	7.1600e-003	6.0000e-005	7.2100e-003	1.9000e-003	5.0000e-005	1.9500e-003	0.0000	6.4508	6.4508	1.9000e-004	0.0000	6.4555
Total	**2.9000e-003**	**2.2400e-003**	**0.0248**	**7.0000e-005**	**7.1600e-003**	**6.0000e-005**	**7.2100e-003**	**1.9000e-003**	**5.0000e-005**	**1.9500e-003**	**0.0000**	**6.4508**	**6.4508**	**1.9000e-004**	**0.0000**	**6.4555**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1632	1.4773	1.2973	2.0700e-003		0.0860	0.0860		0.0809	0.0809	0.0000	178.3397	178.3397	0.0435	0.0000	179.4274
Total	**0.1632**	**1.4773**	**1.2973**	**2.0700e-003**		**0.0860**	**0.0860**		**0.0809**	**0.0809**	**0.0000**	**178.3397**	**178.3397**	**0.0435**	**0.0000**	**179.4274**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5600e-003	0.2394	0.0604	5.6000e-004	0.0141	1.1700e-003	0.0152	4.0600e-003	1.1200e-003	5.1800e-003	0.0000	54.6298	54.6298	3.6500e-003	0.0000	54.7209
Worker	0.0254	0.0195	0.2162	6.2000e-004	0.0625	4.9000e-004	0.0630	0.0166	4.5000e-004	0.0171	0.0000	56.3321	56.3321	1.6200e-003	0.0000	56.3727
Total	**0.0329**	**0.2590**	**0.2766**	**1.1800e-003**	**0.0766**	**1.6600e-003**	**0.0782**	**0.0207**	**1.5700e-003**	**0.0222**	**0.0000**	**110.9619**	**110.9619**	**5.2700e-003**	**0.0000**	**111.0936**

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	0.1632	1.4773	1.2973	2.0700e-003		0.0860	0.0860		0.0809	0.0809	0.0000	178.3395	178.3395	0.0435	0.0000	179.4272
Total	**0.1632**	**1.4773**	**1.2973**	**2.0700e-003**		**0.0860**	**0.0860**		**0.0809**	**0.0809**	**0.0000**	**178.3395**	**178.3395**	**0.0435**	**0.0000**	**179.4272**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5600e-003	0.2394	0.0604	5.6000e-004	0.0141	1.1700e-003	0.0152	4.0600e-003	1.1200e-003	5.1800e-003	0.0000	54.6298	54.6298	3.6500e-003	0.0000	54.7209
Worker	0.0254	0.0195	0.2162	6.2000e-004	0.0625	4.9000e-004	0.0630	0.0166	4.5000e-004	0.0171	0.0000	56.3321	56.3321	1.6200e-003	0.0000	56.3727
Total	**0.0329**	**0.2590**	**0.2766**	**1.1800e-003**	**0.0766**	**1.6600e-003**	**0.0782**	**0.0207**	**1.5700e-003**	**0.0222**	**0.0000**	**110.9619**	**110.9619**	**5.2700e-003**	**0.0000**	**111.0936**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
Total	**0.2481**	**2.2749**	**2.1631**	**3.5100e-003**		**0.1251**	**0.1251**		**0.1176**	**0.1176**	**0.0000**	**302.2867**	**302.2867**	**0.0729**	**0.0000**	**304.1099**

3.4 Building Construction - 2021

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	0.0109	0.3681	0.0930	9.5000e-004	0.0239	7.5000e-004	0.0246	6.8800e-003	7.2000e-004	7.6000e-003	0.0000	91.8902	91.8902	5.9200e-003	0.0000	92.0382
Worker	0.0401	0.0298	0.3370	1.0200e-003	0.1060	8.0000e-004	0.1068	0.0281	7.4000e-004	0.0289	0.0000	92.3839	92.3839	2.4900e-003	0.0000	92.4460
Total	**0.0510**	**0.3979**	**0.4301**	**1.9700e-003**	**0.1298**	**1.5500e-003**	**0.1314**	**0.0350**	**1.4600e-003**	**0.0365**	**0.0000**	**184.2740**	**184.2740**	**8.4100e-003**	**0.0000**	**184.4843**

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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
Total	**0.2481**	**2.2749**	**2.1631**	**3.5100e-003**		**0.1251**	**0.1251**		**0.1176**	**0.1176**	**0.0000**	**302.2863**	**302.2863**	**0.0729**	**0.0000**	**304.1095**

3.4 Building Construction - 2021

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	0.0109	0.3681	0.0930	9.5000e-004	0.0239	7.5000e-004	0.0246	6.8800e-003	7.2000e-004	7.6000e-003	0.0000	91.8902	91.8902	5.9200e-003	0.0000	92.0382
Worker	0.0401	0.0298	0.3370	1.0200e-003	0.1060	8.0000e-004	0.1068	0.0281	7.4000e-004	0.0289	0.0000	92.3839	92.3839	2.4900e-003	0.0000	92.4460
Total	**0.0510**	**0.3979**	**0.4301**	**1.9700e-003**	**0.1298**	**1.5500e-003**	**0.1314**	**0.0350**	**1.4600e-003**	**0.0365**	**0.0000**	**184.2740**	**184.2740**	**8.4100e-003**	**0.0000**	**184.4843**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0154	0.1405	0.1473	2.4000e-004		7.2800e-003	7.2800e-003		6.8500e-003	6.8500e-003	0.0000	20.8553	20.8553	5.0000e-003	0.0000	20.9802
Total	**0.0154**	**0.1405**	**0.1473**	**2.4000e-004**		**7.2800e-003**	**7.2800e-003**		**6.8500e-003**	**6.8500e-003**	**0.0000**	**20.8553**	**20.8553**	**5.0000e-003**	**0.0000**	**20.9802**

3.4 Building Construction - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0241	6.0700e-003	6.0000e-005	1.6400e-003	5.0000e-005	1.6900e-003	4.7000e-004	4.0000e-005	5.2000e-004	0.0000	6.2813	6.2813	3.9000e-004	0.0000	6.2911
Worker	2.6000e-003	1.8600e-003	0.0215	7.0000e-005	7.3100e-003	5.0000e-005	7.3600e-003	1.9400e-003	5.0000e-005	1.9900e-003	0.0000	6.1431	6.1431	1.5000e-004	0.0000	6.1470
Total	**3.3000e-003**	**0.0260**	**0.0275**	**1.3000e-004**	**8.9500e-003**	**1.0000e-004**	**9.0500e-003**	**2.4100e-003**	**9.0000e-005**	**2.5100e-003**	**0.0000**	**12.4244**	**12.4244**	**5.4000e-004**	**0.0000**	**12.4381**

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	0.0154	0.1405	0.1473	2.4000e-004		7.2800e-003	7.2800e-003		6.8500e-003	6.8500e-003	0.0000	20.8553	20.8553	5.0000e-003	0.0000	20.9802
Total	**0.0154**	**0.1405**	**0.1473**	**2.4000e-004**		**7.2800e-003**	**7.2800e-003**		**6.8500e-003**	**6.8500e-003**	**0.0000**	**20.8553**	**20.8553**	**5.0000e-003**	**0.0000**	**20.9802**

3.4 Building Construction - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0241	6.0700e-003	6.0000e-005	1.6400e-003	5.0000e-005	1.6900e-003	4.7000e-004	4.0000e-005	5.2000e-004	0.0000	6.2813	6.2813	3.9000e-004	0.0000	6.2911
Worker	2.6000e-003	1.8600e-003	0.0215	7.0000e-005	7.3100e-003	5.0000e-005	7.3600e-003	1.9400e-003	5.0000e-005	1.9900e-003	0.0000	6.1431	6.1431	1.5000e-004	0.0000	6.1470
Total	**3.3000e-003**	**0.0260**	**0.0275**	**1.3000e-004**	**8.9500e-003**	**1.0000e-004**	**9.0500e-003**	**2.4100e-003**	**9.0000e-005**	**2.5100e-003**	**0.0000**	**12.4244**	**12.4244**	**5.4000e-004**	**0.0000**	**12.4381**

3.5 Asphalt Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0547	0.5615	0.3907	6.7000e-004		0.0283	0.0283		0.0261	0.0261	0.0000	58.4388	58.4388	0.0187	0.0000	58.9057
Paving	1.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0560**	**0.5615**	**0.3907**	**6.7000e-004**		**0.0283**	**0.0283**		**0.0261**	**0.0261**	**0.0000**	**58.4388**	**58.4388**	**0.0187**	**0.0000**	**58.9057**

3.5 Asphalt Paving - 2021

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	1.2500e-003	0.0423	0.0107	1.1000e-004	4.6800e-003	9.0000e-005	4.7700e-003	1.2700e-003	8.0000e-005	1.3500e-003	0.0000	10.5621	10.5621	6.8000e-004	0.0000	10.5791
Worker	3.1200e-003	2.3100e-003	0.0262	8.0000e-005	0.0154	6.0000e-005	0.0154	3.9400e-003	6.0000e-005	3.9900e-003	0.0000	7.1749	7.1749	1.9000e-004	0.0000	7.1797
Total	**4.3700e-003**	**0.0446**	**0.0369**	**1.9000e-004**	**0.0200**	**1.5000e-004**	**0.0202**	**5.2100e-003**	**1.4000e-004**	**5.3400e-003**	**0.0000**	**17.7370**	**17.7370**	**8.7000e-004**	**0.0000**	**17.7588**

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	0.0547	0.5615	0.3907	6.7000e-004		0.0283	0.0283		0.0261	0.0261	0.0000	58.4388	58.4388	0.0187	0.0000	58.9056
Paving	1.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0560**	**0.5615**	**0.3907**	**6.7000e-004**		**0.0283**	**0.0283**		**0.0261**	**0.0261**	**0.0000**	**58.4388**	**58.4388**	**0.0187**	**0.0000**	**58.9056**

3.5 Asphalt Paving - 2021

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	1.2500e-003	0.0423	0.0107	1.1000e-004	4.6800e-003	9.0000e-005	4.7700e-003	1.2700e-003	8.0000e-005	1.3500e-003	0.0000	10.5621	10.5621	6.8000e-004	0.0000	10.5791
Worker	3.1200e-003	2.3100e-003	0.0262	8.0000e-005	0.0154	6.0000e-005	0.0154	3.9400e-003	6.0000e-005	3.9900e-003	0.0000	7.1749	7.1749	1.9000e-004	0.0000	7.1797
Total	**4.3700e-003**	**0.0446**	**0.0369**	**1.9000e-004**	**0.0200**	**1.5000e-004**	**0.0202**	**5.2100e-003**	**1.4000e-004**	**5.3400e-003**	**0.0000**	**17.7370**	**17.7370**	**8.7000e-004**	**0.0000**	**17.7588**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0711					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	9.1600e-003	0.0109	2.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	1.5320	1.5320	1.1000e-004	0.0000	1.5346
Total	**0.0724**	**9.1600e-003**	**0.0109**	**2.0000e-005**		**5.6000e-004**	**5.6000e-004**		**5.6000e-004**	**5.6000e-004**	**0.0000**	**1.5320**	**1.5320**	**1.1000e-004**	**0.0000**	**1.5346**

3.6 Architectural Coating - 2021

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	3.7000e-004	2.8000e-004	3.1400e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8610	0.8610	2.0000e-005	0.0000	0.8616
Total	**3.7000e-004**	**2.8000e-004**	**3.1400e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**9.9000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8610**	**0.8610**	**2.0000e-005**	**0.0000**	**0.8616**

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	0.0711					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	9.1600e-003	0.0109	2.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	1.5320	1.5320	1.1000e-004	0.0000	1.5346
Total	**0.0724**	**9.1600e-003**	**0.0109**	**2.0000e-005**		**5.6000e-004**	**5.6000e-004**		**5.6000e-004**	**5.6000e-004**	**0.0000**	**1.5320**	**1.5320**	**1.1000e-004**	**0.0000**	**1.5346**

3.6 Architectural Coating - 2021

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	3.7000e-004	2.8000e-004	3.1400e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8610	0.8610	2.0000e-005	0.0000	0.8616
Total	**3.7000e-004**	**2.8000e-004**	**3.1400e-003**	**1.0000e-005**	**9.9000e-004**	**1.0000e-005**	**9.9000e-004**	**2.6000e-004**	**1.0000e-005**	**2.7000e-004**	**0.0000**	**0.8610**	**0.8610**	**2.0000e-005**	**0.0000**	**0.8616**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1066					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.1084**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	5.3000e-004	3.8000e-004	4.3500e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2452	1.2452	3.0000e-005	0.0000	1.2460
Total	**5.3000e-004**	**3.8000e-004**	**4.3500e-003**	**1.0000e-005**	**1.4800e-003**	**1.0000e-005**	**1.4900e-003**	**3.9000e-004**	**1.0000e-005**	**4.0000e-004**	**0.0000**	**1.2452**	**1.2452**	**3.0000e-005**	**0.0000**	**1.2460**

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	0.1066					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8400e-003	0.0127	0.0163	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.2979	2.2979	1.5000e-004	0.0000	2.3017
Total	**0.1084**	**0.0127**	**0.0163**	**3.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.5000e-004**	**0.0000**	**2.3017**

3.6 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	5.3000e-004	3.8000e-004	4.3500e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2452	1.2452	3.0000e-005	0.0000	1.2460
Total	**5.3000e-004**	**3.8000e-004**	**4.3500e-003**	**1.0000e-005**	**1.4800e-003**	**1.0000e-005**	**1.4900e-003**	**3.9000e-004**	**1.0000e-005**	**4.0000e-004**	**0.0000**	**1.2452**	**1.2452**	**3.0000e-005**	**0.0000**	**1.2460**

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	0.1446	0.6966	2.1949	8.8900e-003	0.7903	6.3300e-003	0.7966	0.2117	5.8900e-003	0.2176	0.0000	821.5502	821.5502	0.0362	0.0000	822.4563
Unmitigated	0.1446	0.6966	2.1949	8.8900e-003	0.7903	6.3300e-003	0.7966	0.2117	5.8900e-003	0.2176	0.0000	821.5502	821.5502	0.0362	0.0000	822.4563

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	622.59	211.07	86.46	2,080,764	2,080,764
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	622.59	211.07	86.46	2,080,764	2,080,764

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Non-Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869

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	159.2554	159.2554	3.7600e-003	7.8000e-004	159.5813
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	159.2554	159.2554	3.7600e-003	7.8000e-004	159.5813
NaturalGas Mitigated	2.7100e-003	0.0246	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	26.8057	26.8057	5.1000e-004	4.9000e-004	26.9650
NaturalGas Unmitigated	2.7100e-003	0.0246	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	26.8057	26.8057	5.1000e-004	4.9000e-004	26.9650

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	502320	2.7100e-003	0.0246	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	26.8057	26.8057	5.1000e-004	4.9000e-004	26.9650
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**2.7100e-003**	**0.0246**	**0.0207**	**1.5000e-004**		**1.8700e-003**	**1.8700e-003**		**1.8700e-003**	**1.8700e-003**	**0.0000**	**26.8057**	**26.8057**	**5.1000e-004**	**4.9000e-004**	**26.9650**

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	502320	2.7100e-003	0.0246	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	26.8057	26.8057	5.1000e-004	4.9000e-004	26.9650
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**2.7100e-003**	**0.0246**	**0.0207**	**1.5000e-004**		**1.8700e-003**	**1.8700e-003**		**1.8700e-003**	**1.8700e-003**	**0.0000**	**26.8057**	**26.8057**	**5.1000e-004**	**4.9000e-004**	**26.9650**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High School	285936	159.2554	3.7600e-003	7.8000e-004	159.5813
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**159.2554**	**3.7600e-003**	**7.8000e-004**	**159.5813**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High School	285936	159.2554	3.7600e-003	7.8000e-004	159.5813
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**159.2554**	**3.7600e-003**	**7.8000e-004**	**159.5813**

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	0.2071	2.0000e-005	2.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3500e-003	4.3500e-003	1.0000e-005	0.0000	4.6300e-003
Unmitigated	0.2071	2.0000e-005	2.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3500e-003	4.3500e-003	1.0000e-005	0.0000	4.6300e-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	0.0242					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1827					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3500e-003	4.3500e-003	1.0000e-005	0.0000	4.6300e-003
Total	**0.2071**	**2.0000e-005**	**2.2400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.3500e-003**	**4.3500e-003**	**1.0000e-005**	**0.0000**	**4.6300e-003**

6.2 Area by SubCategory

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	0.0242					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1827					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.1000e-004	2.0000e-005	2.2400e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.3500e-003	4.3500e-003	1.0000e-005	0.0000	4.6300e-003
Total	**0.2071**	**2.0000e-005**	**2.2400e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**4.3500e-003**	**4.3500e-003**	**1.0000e-005**	**0.0000**	**4.6300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	37.6585	0.0531	1.4200e-003	39.4088
Unmitigated	37.6585	0.0531	1.4200e-003	39.4088

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High School	1.60378 / 4.12402	37.6585	0.0531	1.4200e-003	39.4088
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**37.6585**	**0.0531**	**1.4200e-003**	**39.4088**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High School	1.60378 / 4.12402	37.6585	0.0531	1.4200e-003	39.4088
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**37.6585**	**0.0531**	**1.4200e-003**	**39.4088**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.7458	0.7533	0.0000	31.5772
Unmitigated	12.7458	0.7533	0.0000	31.5772

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High School	62.79	12.7458	0.7533	0.0000	31.5772
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**12.7458**	**0.7533**	**0.0000**	**31.5772**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High School	62.79	12.7458	0.7533	0.0000	31.5772
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**12.7458**	**0.7533**	**0.0000**	**31.5772**

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

PHASE 3 ANNUAL OUTPUT

Noho High School

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	123.02	1000sqft	2.82	123,020.00	0
High School	56.65	1000sqft	1.30	56,650.00	0
Other Asphalt Surfaces	91.49	1000sqft	2.10	91,490.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment -

Grading - g

Demolition -

Architectural Coating - g

Construction Off-road Equipment Mitigation -

Mobile Commute Mitigation -

Off-road Equipment - g

Off-road Equipment - g

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	230.00	130.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	PhaseEndDate	3/22/2023	11/29/2022
tblConstructionPhase	PhaseEndDate	1/25/2023	11/29/2022
tblConstructionPhase	PhaseEndDate	2/23/2022	3/30/2022
tblConstructionPhase	PhaseEndDate	2/22/2023	11/29/2022
tblConstructionPhase	PhaseEndDate	3/9/2022	5/31/2022
tblConstructionPhase	PhaseStartDate	2/23/2023	11/16/2022

tblConstructionPhase	PhaseStartDate	3/10/2022	6/1/2022
tblConstructionPhase	PhaseStartDate	1/26/2023	11/16/2022
tblConstructionPhase	PhaseStartDate	2/24/2022	3/31/2022
tblGrading	AcresOfGrading	22.00	1.20
tblGrading	MaterialExported	0.00	2,061.00
tblOffRoadEquipment	HorsePower	85.00	81.00
tblOffRoadEquipment	HorsePower	97.00	247.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.78	0.73
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.40
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType	Air Compressors	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Rollers	Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Tractors/Loaders/Backhoes

tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblTripsAndVMT	WorkerTripNumber	18.00	13.00
tblTripsAndVMT	WorkerTripNumber	25.00	18.00

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	0.3103	2.8133	2.5512	6.0300e-003	0.2748	0.1200	0.3948	0.1081	0.1123	0.2203	0.0000	536.2810	536.2810	0.1073	0.0000	538.9632
Maximum	**0.3103**	**2.8133**	**2.5512**	**6.0300e-003**	**0.2748**	**0.1200**	**0.3948**	**0.1081**	**0.1123**	**0.2203**	**0.0000**	**536.2810**	**536.2810**	**0.1073**	**0.0000**	**538.9632**

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	0.3103	2.8133	2.5512	6.0300e-003	0.1878	0.1200	0.3079	0.0659	0.1123	0.1782	0.0000	536.2806	536.2806	0.1073	0.0000	538.9628
Maximum	**0.3103**	**2.8133**	**2.5512**	**6.0300e-003**	**0.1878**	**0.1200**	**0.3079**	**0.0659**	**0.1123**	**0.1782**	**0.0000**	**536.2806**	**536.2806**	**0.1073**	**0.0000**	**538.9628**

	ROG	NOx	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**	**31.64**	**0.00**	**22.02**	**39.02**	**0.00**	**19.14**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-27-2022	4-26-2022	1.1592	1.1592
2	4-27-2022	7-26-2022	0.7860	0.7860
3	7-27-2022	9-30-2022	0.5226	0.5226
		Highest	1.1592	1.1592

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	0.2481	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.7300e-003	6.7300e-003	2.0000e-005	0.0000	7.1700e-003
Energy	3.1800e-003	0.0289	0.0243	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003	0.0000	218.2269	218.2269	5.0100e-003	1.4900e-003	218.7960
Mobile	0.1696	0.8170	2.5743	0.0104	0.9269	7.4200e-003	0.9343	0.2483	6.9000e-003	0.2553	0.0000	963.5781	963.5781	0.0425	0.0000	964.6408
Waste						0.0000	0.0000		0.0000	0.0000	14.9483	0.0000	14.9483	0.8834	0.0000	37.0337
Water						0.0000	0.0000		0.0000	0.0000	0.5968	43.5721	44.1689	0.0623	1.6600e-003	46.2217
Total	**0.4209**	**0.8459**	**2.6021**	**0.0106**	**0.9269**	**9.6200e-003**	**0.9365**	**0.2483**	**9.1000e-003**	**0.2575**	**15.5450**	**1,225.3838**	**1,240.9288**	**0.9933**	**3.1500e-003**	**1,266.6993**

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	0.2481	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.7300e-003	6.7300e-003	2.0000e-005	0.0000	7.1700e-003
Energy	3.1800e-003	0.0289	0.0243	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003	0.0000	218.2269	218.2269	5.0100e-003	1.4900e-003	218.7960
Mobile	0.1696	0.8170	2.5743	0.0104	0.9269	7.4200e-003	0.9343	0.2483	6.9000e-003	0.2553	0.0000	963.5781	963.5781	0.0425	0.0000	964.6408
Waste						0.0000	0.0000		0.0000	0.0000	14.9483	0.0000	14.9483	0.8834	0.0000	37.0337
Water						0.0000	0.0000		0.0000	0.0000	0.5968	43.5721	44.1689	0.0623	1.6600e-003	46.2217
Total	**0.4209**	**0.8459**	**2.6021**	**0.0106**	**0.9269**	**9.6200e-003**	**0.9365**	**0.2483**	**9.1000e-003**	**0.2575**	**15.5450**	**1,225.3838**	**1,240.9288**	**0.9933**	**3.1500e-003**	**1,266.6993**

	ROG	NOx	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	1/27/2022	3/30/2022	5	45	
2	Grading	Grading	3/31/2022	5/31/2022	5	44	
3	Building Construction	Building Construction	6/1/2022	11/29/2022	5	130	
4	Asphalt Paving	Paving	11/16/2022	11/29/2022	5	10	
5	Concrete Paving	Paving	11/16/2022	11/29/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.2

Acres of Paving: 4.92

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Concrete Paving	Pavers	1	8.00	130	0.42
Concrete Paving	Excavators	1	8.00	158	0.38
Concrete Paving	Rollers	1	8.00	80	0.38
Concrete Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Asphalt Paving	Paving Equipment	2	8.00	132	0.36
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Crushing/Proc. Equipment	1	6.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29

Demolition	Air Compressors	1	8.00	78	0.48
Asphalt Paving	Pavers	2	8.00	130	0.42
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Asphalt Paving	Rollers	2	8.00	80	0.38
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Rollers	1	8.00	80	0.38
Demolition	Tractors/Loaders/Backhoes	1	6.00	247	0.40
Asphalt Paving	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Concrete Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Concrete Paving	Paving Equipment	2	8.00	132	0.36
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Excavators	1	8.00	158	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Concrete Paving	7	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	10	18.00	0.00	230.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	114.00	44.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	258.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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					0.0248	0.0000	0.0248	3.7600e-003	0.0000	3.7600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0842	0.7790	0.6088	1.3700e-003		0.0361	0.0361		0.0339	0.0339	0.0000	119.7237	119.7237	0.0312	0.0000	120.5023
Total	**0.0842**	**0.7790**	**0.6088**	**1.3700e-003**	**0.0248**	**0.0361**	**0.0609**	**3.7600e-003**	**0.0339**	**0.0376**	**0.0000**	**119.7237**	**119.7237**	**0.0312**	**0.0000**	**120.5023**

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	8.4000e-004	0.0284	6.7000e-003	9.0000e-005	1.9800e-003	8.0000e-005	2.0600e-003	5.4000e-004	8.0000e-005	6.2000e-004	0.0000	8.5271	8.5271	6.1000e-004	0.0000	8.5424
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	1.5800e-003	1.1300e-003	0.0131	4.0000e-005	4.4400e-003	3.0000e-005	4.4800e-003	1.1800e-003	3.0000e-005	1.2100e-003	0.0000	3.7357	3.7357	9.0000e-005	0.0000	3.7380
Total	**2.4200e-003**	**0.0296**	**0.0198**	**1.3000e-004**	**6.4200e-003**	**1.1000e-004**	**6.5400e-003**	**1.7200e-003**	**1.1000e-004**	**1.8300e-003**	**0.0000**	**12.2628**	**12.2628**	**7.0000e-004**	**0.0000**	**12.2804**

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					0.0112	0.0000	0.0112	1.6900e-003	0.0000	1.6900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0842	0.7790	0.6088	1.3700e-003		0.0361	0.0361		0.0339	0.0339	0.0000	119.7235	119.7235	0.0312	0.0000	120.5022
Total	**0.0842**	**0.7790**	**0.6088**	**1.3700e-003**	**0.0112**	**0.0361**	**0.0473**	**1.6900e-003**	**0.0339**	**0.0356**	**0.0000**	**119.7235**	**119.7235**	**0.0312**	**0.0000**	**120.5022**

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	8.4000e-004	0.0284	6.7000e-003	9.0000e-005	1.9800e-003	8.0000e-005	2.0600e-003	5.4000e-004	8.0000e-005	6.2000e-004	0.0000	8.5271	8.5271	6.1000e-004	0.0000	8.5424
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	1.5800e-003	1.1300e-003	0.0131	4.0000e-005	4.4400e-003	3.0000e-005	4.4800e-003	1.1800e-003	3.0000e-005	1.2100e-003	0.0000	3.7357	3.7357	9.0000e-005	0.0000	3.7380
Total	**2.4200e-003**	**0.0296**	**0.0198**	**1.3000e-004**	**6.4200e-003**	**1.1000e-004**	**6.5400e-003**	**1.7200e-003**	**1.1000e-004**	**1.8300e-003**	**0.0000**	**12.2628**	**12.2628**	**7.0000e-004**	**0.0000**	**12.2804**

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					0.1332	0.0000	0.1332	0.0729	0.0000	0.0729	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0518	0.5169	0.3568	8.8000e-004		0.0223	0.0223		0.0206	0.0206	0.0000	76.6454	76.6454	0.0246	0.0000	77.2613
Total	**0.0518**	**0.5169**	**0.3568**	**8.8000e-004**	**0.1332**	**0.0223**	**0.1556**	**0.0729**	**0.0206**	**0.0935**	**0.0000**	**76.6454**	**76.6454**	**0.0246**	**0.0000**	**77.2613**

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	9.4000e-004	0.0319	7.5100e-003	1.0000e-004	2.2200e-003	9.0000e-005	2.3100e-003	6.1000e-004	9.0000e-005	7.0000e-004	0.0000	9.5652	9.5652	6.9000e-004	0.0000	9.5823
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	1.5500e-003	1.1000e-003	0.0128	4.0000e-005	4.3400e-003	3.0000e-005	4.3800e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.6527	3.6527	9.0000e-005	0.0000	3.6550
Total	**2.4900e-003**	**0.0330**	**0.0203**	**1.4000e-004**	**6.5600e-003**	**1.2000e-004**	**6.6900e-003**	**1.7600e-003**	**1.2000e-004**	**1.8800e-003**	**0.0000**	**13.2178**	**13.2178**	**7.8000e-004**	**0.0000**	**13.2373**

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					0.0600	0.0000	0.0600	0.0328	0.0000	0.0328	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0518	0.5169	0.3568	8.8000e-004		0.0223	0.0223		0.0206	0.0206	0.0000	76.6453	76.6453	0.0246	0.0000	77.2612
Total	**0.0518**	**0.5169**	**0.3568**	**8.8000e-004**	**0.0600**	**0.0223**	**0.0823**	**0.0328**	**0.0206**	**0.0534**	**0.0000**	**76.6453**	**76.6453**	**0.0246**	**0.0000**	**77.2612**

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	9.4000e-004	0.0319	7.5100e-003	1.0000e-004	2.2200e-003	9.0000e-005	2.3100e-003	6.1000e-004	9.0000e-005	7.0000e-004	0.0000	9.5652	9.5652	6.9000e-004	0.0000	9.5823
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	1.5500e-003	1.1000e-003	0.0128	4.0000e-005	4.3400e-003	3.0000e-005	4.3800e-003	1.1500e-003	3.0000e-005	1.1800e-003	0.0000	3.6527	3.6527	9.0000e-005	0.0000	3.6550
Total	**2.4900e-003**	**0.0330**	**0.0203**	**1.4000e-004**	**6.5600e-003**	**1.2000e-004**	**6.6900e-003**	**1.7600e-003**	**1.2000e-004**	**1.8800e-003**	**0.0000**	**13.2178**	**13.2178**	**7.8000e-004**	**0.0000**	**13.2373**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1109	1.0150	1.0636	1.7500e-003		0.0526	0.0526		0.0495	0.0495	0.0000	150.6214	150.6214	0.0361	0.0000	151.5235
Total	**0.1109**	**1.0150**	**1.0636**	**1.7500e-003**		**0.0526**	**0.0526**		**0.0495**	**0.0495**	**0.0000**	**150.6214**	**150.6214**	**0.0361**	**0.0000**	**151.5235**

3.4 Building Construction - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7200e-003	0.2640	0.0666	7.1000e-004	0.0180	4.9000e-004	0.0185	5.2000e-003	4.7000e-004	5.6700e-003	0.0000	68.8292	68.8292	4.3200e-003	0.0000	68.9373
Worker	0.0289	0.0207	0.2388	7.6000e-004	0.0813	6.0000e-004	0.0819	0.0216	5.5000e-004	0.0221	0.0000	68.3489	68.3489	1.7200e-003	0.0000	68.3919
Total	**0.0366**	**0.2846**	**0.3054**	**1.4700e-003**	**0.0993**	**1.0900e-003**	**0.1004**	**0.0268**	**1.0200e-003**	**0.0278**	**0.0000**	**137.1781**	**137.1781**	**6.0400e-003**	**0.0000**	**137.3292**

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	0.1109	1.0150	1.0636	1.7500e-003		0.0526	0.0526		0.0495	0.0495	0.0000	150.6212	150.6212	0.0361	0.0000	151.5233
Total	**0.1109**	**1.0150**	**1.0636**	**1.7500e-003**		**0.0526**	**0.0526**		**0.0495**	**0.0495**	**0.0000**	**150.6212**	**150.6212**	**0.0361**	**0.0000**	**151.5233**

3.4 Building Construction - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.7200e-003	0.2640	0.0666	7.1000e-004	0.0180	4.9000e-004	0.0185	5.2000e-003	4.7000e-004	5.6700e-003	0.0000	68.8292	68.8292	4.3200e-003	0.0000	68.9373
Worker	0.0289	0.0207	0.2388	7.6000e-004	0.0813	6.0000e-004	0.0819	0.0216	5.5000e-004	0.0221	0.0000	68.3489	68.3489	1.7200e-003	0.0000	68.3919
Total	**0.0366**	**0.2846**	**0.3054**	**1.4700e-003**	**0.0993**	**1.0900e-003**	**0.1004**	**0.0268**	**1.0200e-003**	**0.0278**	**0.0000**	**137.1781**	**137.1781**	**6.0400e-003**	**0.0000**	**137.3292**

3.5 Asphalt Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6500e-003	0.0991	0.0906	1.6000e-004		4.9000e-003	4.9000e-003		4.5100e-003	4.5100e-003	0.0000	13.7211	13.7211	4.4400e-003	0.0000	13.8320
Paving	2.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0124**	**0.0991**	**0.0906**	**1.6000e-004**		**4.9000e-003**	**4.9000e-003**		**4.5100e-003**	**4.5100e-003**	**0.0000**	**13.7211**	**13.7211**	**4.4400e-003**	**0.0000**	**13.8320**

3.5 Asphalt Paving - 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	0.0000	0.0000	0.0000	0.0000	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	7.0000e-004	5.0000e-004	5.8000e-003	2.0000e-005	3.6900e-003	1.0000e-005	3.7000e-003	9.4000e-004	1.0000e-005	9.6000e-004	0.0000	1.6603	1.6603	4.0000e-005	0.0000	1.6613
Total	**7.0000e-004**	**5.0000e-004**	**5.8000e-003**	**2.0000e-005**	**3.6900e-003**	**1.0000e-005**	**3.7000e-003**	**9.4000e-004**	**1.0000e-005**	**9.6000e-004**	**0.0000**	**1.6603**	**1.6603**	**4.0000e-005**	**0.0000**	**1.6613**

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	9.6500e-003	0.0991	0.0906	1.6000e-004		4.9000e-003	4.9000e-003		4.5100e-003	4.5100e-003	0.0000	13.7211	13.7211	4.4400e-003	0.0000	13.8320
Paving	2.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0124**	**0.0991**	**0.0906**	**1.6000e-004**		**4.9000e-003**	**4.9000e-003**		**4.5100e-003**	**4.5100e-003**	**0.0000**	**13.7211**	**13.7211**	**4.4400e-003**	**0.0000**	**13.8320**

3.5 Asphalt Paving - 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	0.0000	0.0000	0.0000	0.0000	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	7.0000e-004	5.0000e-004	5.8000e-003	2.0000e-005	3.6900e-003	1.0000e-005	3.7000e-003	9.4000e-004	1.0000e-005	9.6000e-004	0.0000	1.6603	1.6603	4.0000e-005	0.0000	1.6613
Total	**7.0000e-004**	**5.0000e-004**	**5.8000e-003**	**2.0000e-005**	**3.6900e-003**	**1.0000e-005**	**3.7000e-003**	**9.4000e-004**	**1.0000e-005**	**9.6000e-004**	**0.0000**	**1.6603**	**1.6603**	**4.0000e-005**	**0.0000**	**1.6613**

3.6 Concrete Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.7700e-003	0.0555	0.0781	1.2000e-004		2.7900e-003	2.7900e-003		2.5700e-003	2.5700e-003	0.0000	10.6510	10.6510	3.3900e-003	0.0000	10.7358
Paving	2.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.5200e-003**	**0.0555**	**0.0781**	**1.2000e-004**		**2.7900e-003**	**2.7900e-003**		**2.5700e-003**	**2.5700e-003**	**0.0000**	**10.6510**	**10.6510**	**3.3900e-003**	**0.0000**	**10.7358**

3.6 Concrete Paving - 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	0.0000	0.0000	0.0000	0.0000	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	2.5000e-004	1.8000e-004	2.0900e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5996	0.5996	2.0000e-005	0.0000	0.5999
Total	**2.5000e-004**	**1.8000e-004**	**2.0900e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5996**	**0.5996**	**2.0000e-005**	**0.0000**	**0.5999**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.7700e-003	0.0555	0.0781	1.2000e-004		2.7900e-003	2.7900e-003		2.5700e-003	2.5700e-003	0.0000	10.6510	10.6510	3.3900e-003	0.0000	10.7358
Paving	2.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**8.5200e-003**	**0.0555**	**0.0781**	**1.2000e-004**		**2.7900e-003**	**2.7900e-003**		**2.5700e-003**	**2.5700e-003**	**0.0000**	**10.6510**	**10.6510**	**3.3900e-003**	**0.0000**	**10.7358**

3.6 Concrete Paving - 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	0.0000	0.0000	0.0000	0.0000	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	2.5000e-004	1.8000e-004	2.0900e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5996	0.5996	2.0000e-005	0.0000	0.5999
Total	**2.5000e-004**	**1.8000e-004**	**2.0900e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5996**	**0.5996**	**2.0000e-005**	**0.0000**	**0.5999**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive 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	0.1696	0.8170	2.5743	0.0104	0.9269	7.4200e-003	0.9343	0.2483	6.9000e-003	0.2553	0.0000	963.5781	963.5781	0.0425	0.0000	964.6408
Unmitigated	0.1696	0.8170	2.5743	0.0104	0.9269	7.4200e-003	0.9343	0.2483	6.9000e-003	0.2553	0.0000	963.5781	963.5781	0.0425	0.0000	964.6408

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	730.22	247.56	101.40	2,440,482	2,440,482
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	730.22	247.56	101.40	2,440,482	2,440,482

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Non-Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869

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	186.7871	186.7871	4.4100e-003	9.1000e-004	187.1694
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	186.7871	186.7871	4.4100e-003	9.1000e-004	187.1694
NaturalGas Mitigated	3.1800e-003	0.0289	0.0243	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003	0.0000	31.4398	31.4398	6.0000e-004	5.8000e-004	31.6267
NaturalGas Unmitigated	3.1800e-003	0.0289	0.0243	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003	0.0000	31.4398	31.4398	6.0000e-004	5.8000e-004	31.6267

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	589160	3.1800e-003	0.0289	0.0243	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003	0.0000	31.4398	31.4398	6.0000e-004	5.8000e-004	31.6267
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**3.1800e-003**	**0.0289**	**0.0243**	**1.7000e-004**		**2.1900e-003**	**2.1900e-003**		**2.1900e-003**	**2.1900e-003**	**0.0000**	**31.4398**	**31.4398**	**6.0000e-004**	**5.8000e-004**	**31.6267**

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	589160	3.1800e-003	0.0289	0.0243	1.7000e-004		2.1900e-003	2.1900e-003		2.1900e-003	2.1900e-003	0.0000	31.4398	31.4398	6.0000e-004	5.8000e-004	31.6267
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**3.1800e-003**	**0.0289**	**0.0243**	**1.7000e-004**		**2.1900e-003**	**2.1900e-003**		**2.1900e-003**	**2.1900e-003**	**0.0000**	**31.4398**	**31.4398**	**6.0000e-004**	**5.8000e-004**	**31.6267**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High School	335368	186.7871	4.4100e-003	9.1000e-004	187.1694
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**186.7871**	**4.4100e-003**	**9.1000e-004**	**187.1694**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High School	335368	186.7871	4.4100e-003	9.1000e-004	187.1694
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**186.7871**	**4.4100e-003**	**9.1000e-004**	**187.1694**

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	0.2481	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.7300e-003	6.7300e-003	2.0000e-005	0.0000	7.1700e-003
Unmitigated	0.2481	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.7300e-003	6.7300e-003	2.0000e-005	0.0000	7.1700e-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	0.0292					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2186					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2000e-004	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.7300e-003	6.7300e-003	2.0000e-005	0.0000	7.1700e-003
Total	**0.2481**	**3.0000e-005**	**3.4600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**6.7300e-003**	**6.7300e-003**	**2.0000e-005**	**0.0000**	**7.1700e-003**

6.2 Area by SubCategory

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	0.0292					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2186					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.2000e-004	3.0000e-005	3.4600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.7300e-003	6.7300e-003	2.0000e-005	0.0000	7.1700e-003
Total	**0.2481**	**3.0000e-005**	**3.4600e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**6.7300e-003**	**6.7300e-003**	**2.0000e-005**	**0.0000**	**7.1700e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	44.1689	0.0623	1.6600e-003	46.2217
Unmitigated	44.1689	0.0623	1.6600e-003	46.2217

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High School	1.88104 / 4.83697	44.1689	0.0623	1.6600e-003	46.2217
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**44.1689**	**0.0623**	**1.6600e-003**	**46.2217**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High School	1.88104 / 4.83697	44.1689	0.0623	1.6600e-003	46.2217
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**44.1689**	**0.0623**	**1.6600e-003**	**46.2217**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.9483	0.8834	0.0000	37.0337
Unmitigated	14.9483	0.8834	0.0000	37.0337

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High School	73.64	14.9483	0.8834	0.0000	37.0337
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**14.9483**	**0.8834**	**0.0000**	**37.0337**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High School	73.64	14.9483	0.8834	0.0000	37.0337
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**14.9483**	**0.8834**	**0.0000**	**37.0337**

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

PHASE 1 SUMMER OUTPUT

Noho High School

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	30.99	1000sqft	0.71	30,990.00	0
High School	155.10	1000sqft	3.56	155,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - g

Demolition -

Architectural Coating - g

Construction Off-road Equipment Mitigation -

Mobile Commute Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	232,650.00	134,262.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	230.00	340.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	8.00	50.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	5.00	6.00
tblConstructionPhase	PhaseEndDate	10/22/2020	5/3/2021
tblConstructionPhase	PhaseEndDate	9/2/2020	3/22/2021
tblConstructionPhase	PhaseEndDate	9/27/2019	9/13/2019
tblConstructionPhase	PhaseEndDate	10/16/2019	12/2/2019

tblConstructionPhase	PhaseEndDate	9/28/2020	5/3/2021
tblConstructionPhase	PhaseEndDate	10/4/2019	9/23/2019
tblConstructionPhase	PhaseStartDate	9/29/2020	3/23/2021
tblConstructionPhase	PhaseStartDate	10/17/2019	12/3/2019
tblConstructionPhase	PhaseStartDate	10/5/2019	9/24/2019
tblConstructionPhase	PhaseStartDate	9/3/2020	3/23/2021
tblConstructionPhase	PhaseStartDate	9/28/2019	9/16/2019
tblGrading	AcresOfGrading	25.00	4.00
tblGrading	MaterialExported	0.00	5,744.40
tblOffRoadEquipment	HorsePower	158.00	81.00
tblOffRoadEquipment	HorsePower	97.00	158.00
tblOffRoadEquipment	HorsePower	187.00	158.00
tblOffRoadEquipment	HorsePower	85.00	247.00
tblOffRoadEquipment	HorsePower	80.00	247.00
tblOffRoadEquipment	HorsePower	402.00	97.00
tblOffRoadEquipment	HorsePower	8.00	97.00
tblOffRoadEquipment	HorsePower	8.00	187.00
tblOffRoadEquipment	HorsePower	158.00	247.00
tblOffRoadEquipment	LoadFactor	0.38	0.73
tblOffRoadEquipment	LoadFactor	0.37	0.38
tblOffRoadEquipment	LoadFactor	0.41	0.38
tblOffRoadEquipment	LoadFactor	0.78	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	LoadFactor	0.43	0.37
tblOffRoadEquipment	LoadFactor	0.43	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.40

tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Excavators	Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblTripsAndVMT	WorkerTripNumber	25.00	18.00

tblTripsAndVMT	WorkerTripNumber	25.00	15.00
tblTripsAndVMT	WorkerTripNumber	25.00	18.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.5044	57.0158	30.1744	0.0664	18.2675	2.7989	21.0663	9.9840	2.5750	12.5590	0.0000	6,528.9380	6,528.9380	1.8395	0.0000	6,566.3271
2020	2.5726	22.6875	20.8218	0.0438	1.0702	1.1399	2.2101	0.2883	1.0719	1.3603	0.0000	4,290.9084	4,290.9084	0.7027	0.0000	4,308.4759
2021	34.4757	20.6138	20.2247	0.0434	1.0702	0.9711	2.0414	0.2883	0.9130	1.2013	0.0000	4,256.0502	4,256.0502	0.6912	0.0000	4,273.3298
Maximum	**34.4757**	**57.0158**	**30.1744**	**0.0664**	**18.2675**	**2.7989**	**21.0663**	**9.9840**	**2.5750**	**12.5590**	**0.0000**	**6,528.9380**	**6,528.9380**	**1.8395**	**0.0000**	**6,566.3271**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.5044	57.0158	30.1744	0.0664	8.3310	2.7989	11.1299	4.5222	2.5750	7.0971	0.0000	6,528.9380	6,528.9380	1.8395	0.0000	6,566.3271
2020	2.5726	22.6875	20.8218	0.0438	1.0702	1.1399	2.2101	0.2883	1.0719	1.3603	0.0000	4,290.9084	4,290.9084	0.7027	0.0000	4,308.4758
2021	34.4757	20.6138	20.2247	0.0434	1.0702	0.9711	2.0414	0.2883	0.9130	1.2013	0.0000	4,256.0502	4,256.0502	0.6912	0.0000	4,273.3298
Maximum	**34.4757**	**57.0158**	**30.1744**	**0.0664**	**8.3310**	**2.7989**	**11.1299**	**4.5222**	**2.5750**	**7.0971**	**0.0000**	**6,528.9380**	**6,528.9380**	**1.8395**	**0.0000**	**6,566.3271**

Noho High School - South Coast Air Basin, Summer

	ROG	NOx	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**	**48.69**	**0.00**	**39.25**	**51.72**	**0.00**	**36.12**	**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	3.4800	1.7000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0407	0.0407	1.1000e-004		0.0434
Energy	0.0477	0.4333	0.3639	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.9162	519.9162	9.9700e-003	9.5300e-003	523.0058
Mobile	3.4733	15.0228	52.3226	0.2085	18.1472	0.1427	18.2899	4.8548	0.1327	4.9874		21,222.0326	21,222.0326	0.9106		21,244.7981
Total	**7.0010**	**15.4562**	**52.7056**	**0.2111**	**18.1472**	**0.1757**	**18.3229**	**4.8548**	**0.1657**	**5.0204**		**21,741.9895**	**21,741.9895**	**0.9207**	**9.5300e-003**	**21,767.8473**

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	3.4800	1.7000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0407	0.0407	1.1000e-004		0.0434
Energy	0.0477	0.4333	0.3639	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.9162	519.9162	9.9700e-003	9.5300e-003	523.0058
Mobile	3.4733	15.0228	52.3226	0.2085	18.1472	0.1427	18.2899	4.8548	0.1327	4.9874		21,222.0326	21,222.0326	0.9106		21,244.7981
Total	**7.0010**	**15.4562**	**52.7056**	**0.2111**	**18.1472**	**0.1757**	**18.3229**	**4.8548**	**0.1657**	**5.0204**		**21,741.9895**	**21,741.9895**	**0.9207**	**9.5300e-003**	**21,767.8473**

	ROG	NOx	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	9/2/2019	9/13/2019	5	10	
2	Site Preparation	Site Preparation	9/16/2019	9/23/2019	5	6	
3	Grading	Grading	9/24/2019	12/2/2019	5	50	
4	Building Construction	Building Construction	12/3/2019	3/22/2021	5	340	
5	Paving	Paving	3/23/2021	5/3/2021	5	30	
6	Architectural Coating	Architectural Coating	3/23/2021	5/3/2021	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.71

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 134,262; Non-Residential Outdoor: 77,550; Striped Parking Area: 1,859 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Excavators	1	8.00	81	0.73
Demolition	Tractors/Loaders/Backhoes	1	6.00	158	0.38

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Graders	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Crushing/Proc. Equipment	1	6.00	247	0.40
Grading	Rollers	2	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Off-Highway Trucks	1	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Plate Compactors	1	8.00	97	0.37
Grading	Plate Compactors	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Excavators	1	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Air Compressors	1	8.00	78	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Trenchers	1	8.00	78	0.50
Site Preparation	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38

Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	78.00	31.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	10	18.00	0.00	37.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	15.00	0.00	718.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	10	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7968	0.0000	0.7968	0.1207	0.0000	0.1207			0.0000			0.0000
Off-Road	4.9192	48.3842	29.1478	0.0614		2.3719	2.3719		2.2219	2.2219		6,001.6401	6,001.6401	1.4663		6,038.2982
Total	**4.9192**	**48.3842**	**29.1478**	**0.0614**	**0.7968**	**2.3719**	**3.1687**	**0.1207**	**2.2219**	**2.3426**		**6,001.6401**	**6,001.6401**	**1.4663**		**6,038.2982**

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	0.0319	1.1017	0.2204	2.9100e-003	0.0646	4.1200e-003	0.0687	0.0177	3.9400e-003	0.0217		314.8329	314.8329	0.0226		315.3974
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	0.0874	0.0612	0.8063	2.1300e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		212.4651	212.4651	6.6600e-003		212.6315
Total	**0.1193**	**1.1628**	**1.0267**	**5.0400e-003**	**0.2658**	**5.6900e-003**	**0.2715**	**0.0711**	**5.3900e-003**	**0.0765**		**527.2980**	**527.2980**	**0.0292**		**528.0289**

3.2 Demolition - 2019

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					0.3586	0.0000	0.3586	0.0543	0.0000	0.0543			0.0000			0.0000
Off-Road	4.9192	48.3842	29.1478	0.0614		2.3719	2.3719		2.2219	2.2219	0.0000	6,001.6401	6,001.6401	1.4663		6,038.2982
Total	**4.9192**	**48.3842**	**29.1478**	**0.0614**	**0.3586**	**2.3719**	**2.7304**	**0.0543**	**2.2219**	**2.2762**	**0.0000**	**6,001.6401**	**6,001.6401**	**1.4663**		**6,038.2982**

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	0.0319	1.1017	0.2204	2.9100e-003	0.0646	4.1200e-003	0.0687	0.0177	3.9400e-003	0.0217		314.8329	314.8329	0.0226		315.3974
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	0.0874	0.0612	0.8063	2.1300e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		212.4651	212.4651	6.6600e-003		212.6315
Total	**0.1193**	**1.1628**	**1.0267**	**5.0400e-003**	**0.2658**	**5.6900e-003**	**0.2715**	**0.0711**	**5.3900e-003**	**0.0765**		**527.2980**	**527.2980**	**0.0292**		**528.0289**

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.4170	56.9547	27.0457	0.0585		2.7973	2.7973		2.5735	2.5735		5,792.8977	5,792.8977	1.8328		5,838.7180
Total	**5.4170**	**56.9547**	**27.0457**	**0.0585**	**18.0663**	**2.7973**	**20.8636**	**9.9307**	**2.5735**	**12.5042**		**5,792.8977**	**5,792.8977**	**1.8328**		**5,838.7180**

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	0.0874	0.0612	0.8063	2.1300e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		212.4651	212.4651	6.6600e-003		212.6315
Total	**0.0874**	**0.0612**	**0.8063**	**2.1300e-003**	**0.2012**	**1.5700e-003**	**0.2028**	**0.0534**	**1.4500e-003**	**0.0548**		**212.4651**	**212.4651**	**6.6600e-003**		**212.6315**

3.3 Site Preparation - 2019

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	5.4170	56.9547	27.0457	0.0585		2.7973	2.7973		2.5735	2.5735	0.0000	5,792.8977	5,792.8977	1.8328		5,838.7180
Total	**5.4170**	**56.9547**	**27.0457**	**0.0585**	**8.1298**	**2.7973**	**10.9271**	**4.4688**	**2.5735**	**7.0423**	**0.0000**	**5,792.8977**	**5,792.8977**	**1.8328**		**5,838.7180**

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	0.0874	0.0612	0.8063	2.1300e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		212.4651	212.4651	6.6600e-003		212.6315
Total	**0.0874**	**0.0612**	**0.8063**	**2.1300e-003**	**0.2012**	**1.5700e-003**	**0.2028**	**0.0534**	**1.4500e-003**	**0.0548**		**212.4651**	**212.4651**	**6.6600e-003**		**212.6315**

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1199	0.0000	6.1199	3.3214	0.0000	3.3214			0.0000			0.0000
Off-Road	3.2752	35.5307	21.5397	0.0409		1.7755	1.7755		1.6335	1.6335		4,051.6006	4,051.6006	1.2819		4,083.6477
Total	**3.2752**	**35.5307**	**21.5397**	**0.0409**	**6.1199**	**1.7755**	**7.8954**	**3.3214**	**1.6335**	**4.9548**		**4,051.6006**	**4,051.6006**	**1.2819**		**4,083.6477**

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	0.1236	4.2756	0.8553	0.0113	0.2508	0.0160	0.2668	0.0687	0.0153	0.0840		1,221.8920	1,221.8920	0.0876		1,224.0828
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	0.0728	0.0510	0.6719	1.7800e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		177.0542	177.0542	5.5500e-003		177.1930
Total	**0.1965**	**4.3266**	**1.5272**	**0.0131**	**0.4185**	**0.0173**	**0.4358**	**0.1132**	**0.0165**	**0.1297**		**1,398.9462**	**1,398.9462**	**0.0932**		**1,401.2758**

3.4 Grading - 2019

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					2.7540	0.0000	2.7540	1.4946	0.0000	1.4946			0.0000			0.0000
Off-Road	3.2752	35.5307	21.5397	0.0409		1.7755	1.7755		1.6335	1.6335	0.0000	4,051.6006	4,051.6006	1.2819		4,083.6477
Total	**3.2752**	**35.5307**	**21.5397**	**0.0409**	**2.7540**	**1.7755**	**4.5295**	**1.4946**	**1.6335**	**3.1281**	**0.0000**	**4,051.6006**	**4,051.6006**	**1.2819**		**4,083.6477**

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	0.1236	4.2756	0.8553	0.0113	0.2508	0.0160	0.2668	0.0687	0.0153	0.0840		1,221.8920	1,221.8920	0.0876		1,224.0828
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	0.0728	0.0510	0.6719	1.7800e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		177.0542	177.0542	5.5500e-003		177.1930
Total	**0.1965**	**4.3266**	**1.5272**	**0.0131**	**0.4185**	**0.0173**	**0.4358**	**0.1132**	**0.0165**	**0.1297**		**1,398.9462**	**1,398.9462**	**0.0932**		**1,401.2758**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

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	0.1208	3.5586	0.8775	7.9700e-003	0.1984	0.0236	0.2220	0.0571	0.0226	0.0797		850.9877	850.9877	0.0573		852.4191
Worker	0.3787	0.2650	3.4939	9.2500e-003	0.8719	6.8200e-003	0.8787	0.2312	6.2900e-003	0.2375		920.6820	920.6820	0.0289		921.4034
Total	**0.4995**	**3.8236**	**4.3714**	**0.0172**	**1.0702**	**0.0304**	**1.1006**	**0.2883**	**0.0289**	**0.3172**		**1,771.6697**	**1,771.6697**	**0.0861**		**1,773.8225**

3.5 Building Construction - 2019

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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

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	0.1208	3.5586	0.8775	7.9700e-003	0.1984	0.0236	0.2220	0.0571	0.0226	0.0797		850.9877	850.9877	0.0573		852.4191
Worker	0.3787	0.2650	3.4939	9.2500e-003	0.8719	6.8200e-003	0.8787	0.2312	6.2900e-003	0.2375		920.6820	920.6820	0.0289		921.4034
Total	**0.4995**	**3.8236**	**4.3714**	**0.0172**	**1.0702**	**0.0304**	**1.1006**	**0.2883**	**0.0289**	**0.3172**		**1,771.6697**	**1,771.6697**	**0.0861**		**1,773.8225**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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	0.1029	3.2650	0.7942	7.9100e-003	0.1984	0.0162	0.2145	0.0571	0.0155	0.0726		845.6531	845.6531	0.0541		847.0062
Worker	0.3499	0.2365	3.1791	8.9600e-003	0.8719	6.6500e-003	0.8785	0.2312	6.1300e-003	0.2374		892.1923	892.1923	0.0257		892.8351
Total	**0.4528**	**3.5015**	**3.9733**	**0.0169**	**1.0702**	**0.0228**	**1.0930**	**0.2883**	**0.0216**	**0.3099**		**1,737.8454**	**1,737.8454**	**0.0798**		**1,739.8414**

3.5 Building Construction - 2020

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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	0.1029	3.2650	0.7942	7.9100e-003	0.1984	0.0162	0.2145	0.0571	0.0155	0.0726		845.6531	845.6531	0.0541		847.0062
Worker	0.3499	0.2365	3.1791	8.9600e-003	0.8719	6.6500e-003	0.8785	0.2312	6.1300e-003	0.2374		892.1923	892.1923	0.0257		892.8351
Total	**0.4528**	**3.5015**	**3.9733**	**0.0169**	**1.0702**	**0.0228**	**1.0930**	**0.2883**	**0.0216**	**0.3099**		**1,737.8454**	**1,737.8454**	**0.0798**		**1,739.8414**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

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	0.0872	2.9688	0.7209	7.8400e-003	0.1984	6.0600e-003	0.2044	0.0571	5.8000e-003	0.0629		839.3056	839.3056	0.0519		840.6031
Worker	0.3264	0.2129	2.9287	8.6700e-003	0.8719	6.4500e-003	0.8783	0.2312	5.9400e-003	0.2372		863.3807	863.3807	0.0233		863.9624
Total	**0.4137**	**3.1817**	**3.6495**	**0.0165**	**1.0702**	**0.0125**	**1.0827**	**0.2883**	**0.0117**	**0.3001**		**1,702.6863**	**1,702.6863**	**0.0752**		**1,704.5656**

3.5 Building Construction - 2021

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

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	0.0872	2.9688	0.7209	7.8400e-003	0.1984	6.0600e-003	0.2044	0.0571	5.8000e-003	0.0629		839.3056	839.3056	0.0519		840.6031
Worker	0.3264	0.2129	2.9287	8.6700e-003	0.8719	6.4500e-003	0.8783	0.2312	5.9400e-003	0.2372		863.3807	863.3807	0.0233		863.9624
Total	**0.4137**	**3.1817**	**3.6495**	**0.0165**	**1.0702**	**0.0125**	**1.0827**	**0.2883**	**0.0117**	**0.3001**		**1,702.6863**	**1,702.6863**	**0.0752**		**1,704.5656**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0940**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**		**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

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	0.0837	0.0546	0.7509	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.3797	221.3797	5.9700e-003		221.5288
Total	**0.0837**	**0.0546**	**0.7509**	**2.2200e-003**	**0.2236**	**1.6500e-003**	**0.2252**	**0.0593**	**1.5200e-003**	**0.0608**		**221.3797**	**221.3797**	**5.9700e-003**		**221.5288**

3.6 Paving - 2021

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	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0940**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**	**0.0000**	**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

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	0.0837	0.0546	0.7509	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.3797	221.3797	5.9700e-003		221.5288
Total	**0.0837**	**0.0546**	**0.7509**	**2.2200e-003**	**0.2236**	**1.6500e-003**	**0.2252**	**0.0593**	**1.5200e-003**	**0.0608**		**221.3797**	**221.3797**	**5.9700e-003**		**221.5288**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	33.0122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**33.2311**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

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	0.0670	0.0437	0.6008	1.7800e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2200e-003	0.0487		177.1037	177.1037	4.7700e-003		177.2231
Total	**0.0670**	**0.0437**	**0.6008**	**1.7800e-003**	**0.1788**	**1.3200e-003**	**0.1802**	**0.0474**	**1.2200e-003**	**0.0487**		**177.1037**	**177.1037**	**4.7700e-003**		**177.2231**

3.7 Architectural Coating - 2021

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	33.0122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**33.2311**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

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	0.0670	0.0437	0.6008	1.7800e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2200e-003	0.0487		177.1037	177.1037	4.7700e-003		177.2231
Total	**0.0670**	**0.0437**	**0.6008**	**1.7800e-003**	**0.1788**	**1.3200e-003**	**0.1802**	**0.0474**	**1.2200e-003**	**0.0487**		**177.1037**	**177.1037**	**4.7700e-003**		**177.2231**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4733	15.0228	52.3226	0.2085	18.1472	0.1427	18.2899	4.8548	0.1327	4.9874		21,222.0326	21,222.0326	0.9106		21,244.7981
Unmitigated	3.4733	15.0228	52.3226	0.2085	18.1472	0.1427	18.2899	4.8548	0.1327	4.9874		21,222.0326	21,222.0326	0.9106		21,244.7981

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	1,999.24	677.79	277.63	6,681,707	6,681,707
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,999.24	677.79	277.63	6,681,707	6,681,707

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Non-Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869

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	0.0477	0.4333	0.3639	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.9162	519.9162	9.9700e-003	9.5300e-003	523.0058
NaturalGas Unmitigated	0.0477	0.4333	0.3639	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.9162	519.9162	9.9700e-003	9.5300e-003	523.0058

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	4419.29	0.0477	0.4333	0.3639	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.9162	519.9162	9.9700e-003	9.5300e-003	523.0058
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0477**	**0.4333**	**0.3639**	**2.6000e-003**		**0.0329**	**0.0329**		**0.0329**	**0.0329**		**519.9162**	**519.9162**	**9.9700e-003**	**9.5300e-003**	**523.0058**

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	4.41929	0.0477	0.4333	0.3639	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.9162	519.9162	9.9700e-003	9.5300e-003	523.0058
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0477**	**0.4333**	**0.3639**	**2.6000e-003**		**0.0329**	**0.0329**		**0.0329**	**0.0329**		**519.9162**	**519.9162**	**9.9700e-003**	**9.5300e-003**	**523.0058**

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	3.4800	1.7000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0407	0.0407	1.1000e-004		0.0434
Unmitigated	3.4800	1.7000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0407	0.0407	1.1000e-004		0.0434

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	0.3963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7600e-003	1.7000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0407	0.0407	1.1000e-004		0.0434
Total	**3.4800**	**1.7000e-004**	**0.0190**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0407**	**0.0407**	**1.1000e-004**		**0.0434**

6.2 Area by SubCategory

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	0.3963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7600e-003	1.7000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0407	0.0407	1.1000e-004		0.0434
Total	**3.4800**	**1.7000e-004**	**0.0190**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0407**	**0.0407**	**1.1000e-004**		**0.0434**

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

PHASE 2 SUMMER OUTPUT

Noho High School

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	48.30	1000sqft	1.11	48,300.00	0
Other Non-Asphalt Surfaces	85.88	1000sqft	1.97	85,880.00	0
Other Asphalt Surfaces	41.07	1000sqft	0.94	41,071.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Noho High School - South Coast Air Basin, Summer

Project Characteristics -

Land Use -

Construction Phase - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment -

Off-road Equipment - g

Off-road Equipment -

Demolition -

Architectural Coating - g

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	72,450.00	44,895.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	230.00	433.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	5.00	87.00
tblConstructionPhase	PhaseEndDate	3/23/2021	1/26/2022
tblConstructionPhase	PhaseEndDate	2/1/2021	1/26/2022
tblConstructionPhase	PhaseEndDate	2/26/2020	5/29/2020
tblConstructionPhase	PhaseEndDate	2/25/2021	12/15/2021
tblConstructionPhase	PhaseEndDate	3/4/2020	9/29/2020
tblConstructionPhase	PhaseStartDate	2/26/2021	12/16/2021
tblConstructionPhase	PhaseStartDate	3/17/2020	6/1/2020

tblConstructionPhase	PhaseStartDate	2/2/2021	11/4/2021
tblConstructionPhase	PhaseStartDate	2/27/2020	6/1/2020
tblOffRoadEquipment	LoadFactor	0.37	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	29.00
tblTripsAndVMT	WorkerTripNumber	23.00	15.00
tblTripsAndVMT	WorkerTripNumber	23.00	15.00
tblTripsAndVMT	WorkerTripNumber	30.00	25.00
tblTripsAndVMT	WorkerTripNumber	30.00	25.00

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					
2020	7.4618	71.2688	45.4120	0.0906	19.2466	3.6158	22.8624	10.2479	3.3707	13.6186	0.0000	8,779.9427	8,779.9427	1.9379	0.0000	8,828.3897
2021	14.4182	60.7583	48.6284	0.1000	2.3753	2.8676	5.2429	0.6262	2.6597	3.2858	0.0000	9,790.7513	9,790.7513	2.1224	0.0000	9,843.8115
2022	14.1811	19.8815	21.9057	0.0467	1.1804	0.9028	2.0832	0.3173	0.8542	1.1714	0.0000	4,563.9195	4,563.9195	0.7012	0.0000	4,581.4484
Maximum	**14.4182**	**71.2688**	**48.6284**	**0.1000**	**19.2466**	**3.6158**	**22.8624**	**10.2479**	**3.3707**	**13.6186**	**0.0000**	**9,790.7513**	**9,790.7513**	**2.1224**	**0.0000**	**9,843.8115**

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					
2020	7.4618	71.2688	45.4120	0.0906	9.3102	3.6158	12.9260	4.7861	3.3707	8.1567	0.0000	8,779.9427	8,779.9427	1.9379	0.0000	8,828.3897
2021	14.4182	60.7583	48.6284	0.1000	2.3753	2.8676	5.2429	0.6262	2.6597	3.2858	0.0000	9,790.7513	9,790.7513	2.1224	0.0000	9,843.8115
2022	14.1811	19.8815	21.9057	0.0467	1.1804	0.9028	2.0832	0.3173	0.8542	1.1714	0.0000	4,563.9195	4,563.9195	0.7012	0.0000	4,581.4484
Maximum	**14.4182**	**71.2688**	**48.6284**	**0.1000**	**9.3102**	**3.6158**	**12.9260**	**4.7861**	**3.3707**	**8.1567**	**0.0000**	**9,790.7513**	**9,790.7513**	**2.1224**	**0.0000**	**9,843.8115**

Noho High School - South Coast Air Basin, Summer

	ROG	NOx	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**	**43.58**	**0.00**	**32.91**	**48.80**	**0.00**	**30.22**	**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	1.1353	1.6000e-004	0.0179	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0409
Energy	0.0148	0.1349	0.1133	8.1000e-004		0.0103	0.0103		0.0103	0.0103		161.9081	161.9081	3.1000e-003	2.9700e-003	162.8703
Mobile	1.0816	4.6783	16.2939	0.0649	5.6513	0.0444	5.6957	1.5118	0.0413	1.5531		6,608.7954	6,608.7954	0.2836		6,615.8849
Total	**2.2318**	**4.8134**	**16.4251**	**0.0657**	**5.6513**	**0.0547**	**5.7060**	**1.5118**	**0.0516**	**1.5635**		**6,770.7419**	**6,770.7419**	**0.2868**	**2.9700e-003**	**6,778.7961**

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	1.1353	1.6000e-004	0.0179	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0409
Energy	0.0148	0.1349	0.1133	8.1000e-004		0.0103	0.0103		0.0103	0.0103		161.9081	161.9081	3.1000e-003	2.9700e-003	162.8703
Mobile	1.0816	4.6783	16.2939	0.0649	5.6513	0.0444	5.6957	1.5118	0.0413	1.5531		6,608.7954	6,608.7954	0.2836		6,615.8849
Total	**2.2318**	**4.8134**	**16.4251**	**0.0657**	**5.6513**	**0.0547**	**5.7060**	**1.5118**	**0.0516**	**1.5635**		**6,770.7419**	**6,770.7419**	**0.2868**	**2.9700e-003**	**6,778.7961**

	ROG	NOx	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	1/30/2020	5/29/2020	5	87	
2	Renovation	Site Preparation	6/1/2020	9/29/2020	5	87	
3	Building Construction	Building Construction	6/1/2020	1/26/2022	5	433	
4	Asphalt Paving	Paving	11/4/2021	12/15/2021	5	30	
5	Architectural Coating	Architectural Coating	12/16/2021	1/26/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.91

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 44,895; Non-Residential Outdoor: 24,150; Striped Parking Area: 7,617 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Concrete Paving	Air Compressors	1	6.00	78	0.48
Concrete Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.36
Demolition	Excavators	1	8.00	158	0.38
Asphalt Paving	Cement and Mortar Mixers	2	6.00	9	0.56

Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt Paving	Excavators	1	6.00	158	0.38
Concrete Paving	Pavers	1	8.00	130	0.42
Concrete Paving	Rollers	2	6.00	80	0.38
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Asphalt Paving	Rubber Tired Dozers	2	8.00	247	0.40
Asphalt Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Asphalt Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Concrete Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Renovation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Renovation	Rubber Tired Dozers	3	8.00	247	0.40
Concrete Paving	Paving Equipment	2	6.00	132	0.36
Renovation	Cranes	1	8.00	231	0.29
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Asphalt Paving	Pavers	2	8.00	130	0.42
Asphalt Paving	Paving Equipment	1	6.00	132	0.36
Asphalt Paving	Rollers	2	6.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Air Compressors	1	8.00	78	0.48
Renovation	Forklifts	2	8.00	89	0.20

Renovation	Generator Sets	1	8.00	84	0.74
Renovation	Welders	1	6.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	9	15.00	0.00	343.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Renovation	9	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	12	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	12	25.00	29.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	74.00	29.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8533	0.0000	0.8533	0.1292	0.0000	0.1292			0.0000			0.0000
Off-Road	4.4588	42.4188	27.8008	0.0553		2.1280	2.1280		1.9999	1.9999		5,324.9818	5,324.9818	1.3514		5,358.7668
Total	**4.4588**	**42.4188**	**27.8008**	**0.0553**	**0.8533**	**2.1280**	**2.9813**	**0.1292**	**1.9999**	**2.1291**		**5,324.9818**	**5,324.9818**	**1.3514**		**5,358.7668**

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	0.0314	1.0984	0.2284	3.0600e-003	0.0689	3.5500e-003	0.0724	0.0189	3.4000e-003	0.0223		332.1186	332.1186	0.0235		332.7059
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	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991
Total	**0.0987**	**1.1439**	**0.8398**	**4.7800e-003**	**0.2365**	**4.8300e-003**	**0.2414**	**0.0633**	**4.5800e-003**	**0.0679**		**503.6940**	**503.6940**	**0.0284**		**504.4050**

3.2 Demolition - 2020

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					0.3840	0.0000	0.3840	0.0581	0.0000	0.0581			0.0000			0.0000
Off-Road	4.4588	42.4188	27.8008	0.0553		2.1280	2.1280		1.9999	1.9999	0.0000	5,324.9818	5,324.9818	1.3514		5,358.7668
Total	**4.4588**	**42.4188**	**27.8008**	**0.0553**	**0.3840**	**2.1280**	**2.5120**	**0.0581**	**1.9999**	**2.0580**	**0.0000**	**5,324.9818**	**5,324.9818**	**1.3514**		**5,358.7668**

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	0.0314	1.0984	0.2284	3.0600e-003	0.0689	3.5500e-003	0.0724	0.0189	3.4000e-003	0.0223		332.1186	332.1186	0.0235		332.7059
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	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991
Total	**0.0987**	**1.1439**	**0.8398**	**4.7800e-003**	**0.2365**	**4.8300e-003**	**0.2414**	**0.0633**	**4.5800e-003**	**0.0679**		**503.6940**	**503.6940**	**0.0284**		**504.4050**

3.3 Renovation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8465	48.7585	24.1930	0.0460		2.4760	2.4760		2.2989	2.2989		4,417.7705	4,417.7705	1.2351		4,448.6468
Total	**4.8465**	**48.7585**	**24.1930**	**0.0460**	**18.0663**	**2.4760**	**20.5423**	**9.9307**	**2.2989**	**12.2295**		**4,417.7705**	**4,417.7705**	**1.2351**		**4,448.6468**

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	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991
Total	**0.0673**	**0.0455**	**0.6114**	**1.7200e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1800e-003**	**0.0456**		**171.5755**	**171.5755**	**4.9400e-003**		**171.6991**

3.3 Renovation - 2020

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.8465	48.7585	24.1930	0.0460		2.4760	2.4760		2.2989	2.2989	0.0000	4,417.7705	4,417.7705	1.2351		4,448.6468
Total	**4.8465**	**48.7585**	**24.1930**	**0.0460**	**8.1298**	**2.4760**	**10.6059**	**4.4688**	**2.2989**	**6.7677**	**0.0000**	**4,417.7705**	**4,417.7705**	**1.2351**		**4,448.6468**

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	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991
Total	**0.0673**	**0.0455**	**0.6114**	**1.7200e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1800e-003**	**0.0456**		**171.5755**	**171.5755**	**4.9400e-003**		**171.6991**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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	0.0963	3.0543	0.7430	7.4000e-003	0.1856	0.0151	0.2007	0.0534	0.0145	0.0679		791.0948	791.0948	0.0506		792.3607
Worker	0.3319	0.2244	3.0161	8.5000e-003	0.8272	6.3100e-003	0.8335	0.2194	5.8100e-003	0.2252		846.4389	846.4389	0.0244		847.0487
Total	**0.4282**	**3.2787**	**3.7591**	**0.0159**	**1.0127**	**0.0214**	**1.0342**	**0.2728**	**0.0203**	**0.2931**		**1,637.5337**	**1,637.5337**	**0.0750**		**1,639.4094**

3.4 Building Construction - 2020

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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	0.0963	3.0543	0.7430	7.4000e-003	0.1856	0.0151	0.2007	0.0534	0.0145	0.0679		791.0948	791.0948	0.0506		792.3607
Worker	0.3319	0.2244	3.0161	8.5000e-003	0.8272	6.3100e-003	0.8335	0.2194	5.8100e-003	0.2252		846.4389	846.4389	0.0244		847.0487
Total	**0.4282**	**3.2787**	**3.7591**	**0.0159**	**1.0127**	**0.0214**	**1.0342**	**0.2728**	**0.0203**	**0.2931**		**1,637.5337**	**1,637.5337**	**0.0750**		**1,639.4094**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

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	0.0816	2.7773	0.6744	7.3400e-003	0.1856	5.6700e-003	0.1912	0.0534	5.4200e-003	0.0588		785.1569	785.1569	0.0486		786.3707
Worker	0.3097	0.2020	2.7785	8.2200e-003	0.8272	6.1200e-003	0.8333	0.2194	5.6400e-003	0.2250		819.1047	819.1047	0.0221		819.6567
Total	**0.3913**	**2.9793**	**3.4528**	**0.0156**	**1.0127**	**0.0118**	**1.0245**	**0.2728**	**0.0111**	**0.2838**		**1,604.2616**	**1,604.2616**	**0.0706**		**1,606.0273**

3.4 Building Construction - 2021

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

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	0.0816	2.7773	0.6744	7.3400e-003	0.1856	5.6700e-003	0.1912	0.0534	5.4200e-003	0.0588		785.1569	785.1569	0.0486		786.3707
Worker	0.3097	0.2020	2.7785	8.2200e-003	0.8272	6.1200e-003	0.8333	0.2194	5.6400e-003	0.2250		819.1047	819.1047	0.0221		819.6567
Total	**0.3913**	**2.9793**	**3.4528**	**0.0156**	**1.0127**	**0.0118**	**1.0245**	**0.2728**	**0.0111**	**0.2838**		**1,604.2616**	**1,604.2616**	**0.0706**		**1,606.0273**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

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	0.0766	2.6379	0.6385	7.2700e-003	0.1856	4.9300e-003	0.1905	0.0534	4.7200e-003	0.0581		778.2737	778.2737	0.0469		779.4458
Worker	0.2905	0.1825	2.5694	7.9200e-003	0.8272	5.9500e-003	0.8331	0.2194	5.4800e-003	0.2248		789.7747	789.7747	0.0200		790.2737
Total	**0.3671**	**2.8204**	**3.2079**	**0.0152**	**1.0127**	**0.0109**	**1.0236**	**0.2728**	**0.0102**	**0.2830**		**1,568.0484**	**1,568.0484**	**0.0668**		**1,569.7195**

3.4 Building Construction - 2022

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

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	0.0766	2.6379	0.6385	7.2700e-003	0.1856	4.9300e-003	0.1905	0.0534	4.7200e-003	0.0581		778.2737	778.2737	0.0469		779.4458
Worker	0.2905	0.1825	2.5694	7.9200e-003	0.8272	5.9500e-003	0.8331	0.2194	5.4800e-003	0.2248		789.7747	789.7747	0.0200		790.2737
Total	**0.3671**	**2.8204**	**3.2079**	**0.0152**	**1.0127**	**0.0109**	**1.0236**	**0.2728**	**0.0102**	**0.2830**		**1,568.0484**	**1,568.0484**	**0.0668**		**1,569.7195**

3.5 Asphalt Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6481	37.4332	26.0487	0.0446		1.8874	1.8874		1.7381	1.7381		4,294.5198	4,294.5198	1.3723		4,328.8272
Paving	0.0821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.7301**	**37.4332**	**26.0487**	**0.0446**		**1.8874**	**1.8874**		**1.7381**	**1.7381**		**4,294.5198**	**4,294.5198**	**1.3723**		**4,328.8272**

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	0.0816	2.7773	0.6744	7.3400e-003	0.3178	5.6700e-003	0.3235	0.0859	5.4200e-003	0.0913		785.1569	785.1569	0.0486		786.3707
Worker	0.2093	0.1365	1.8773	5.5500e-003	1.0448	4.1400e-003	1.0489	0.2675	3.8100e-003	0.2713		553.4491	553.4491	0.0149		553.8221
Total	**0.2909**	**2.9137**	**2.5517**	**0.0129**	**1.3626**	**9.8100e-003**	**1.3724**	**0.3534**	**9.2300e-003**	**0.3626**		**1,338.6060**	**1,338.6060**	**0.0635**		**1,340.1927**

3.5 Asphalt Paving - 2021

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	3.6481	37.4332	26.0487	0.0446		1.8874	1.8874		1.7381	1.7381	0.0000	4,294.5198	4,294.5198	1.3723		4,328.8271
Paving	0.0821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.7301**	**37.4332**	**26.0487**	**0.0446**		**1.8874**	**1.8874**		**1.7381**	**1.7381**	**0.0000**	**4,294.5198**	**4,294.5198**	**1.3723**		**4,328.8271**

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	0.0816	2.7773	0.6744	7.3400e-003	0.3178	5.6700e-003	0.3235	0.0859	5.4200e-003	0.0913		785.1569	785.1569	0.0486		786.3707
Worker	0.2093	0.1365	1.8773	5.5500e-003	1.0448	4.1400e-003	1.0489	0.2675	3.8100e-003	0.2713		553.4491	553.4491	0.0149		553.8221
Total	**0.2909**	**2.9137**	**2.5517**	**0.0129**	**1.3626**	**9.8100e-003**	**1.3724**	**0.3534**	**9.2300e-003**	**0.3626**		**1,338.6060**	**1,338.6060**	**0.0635**		**1,340.1927**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.8443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**12.0632**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

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	0.0628	0.0410	0.5632	1.6700e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		166.0347	166.0347	4.4800e-003		166.1466
Total	**0.0628**	**0.0410**	**0.5632**	**1.6700e-003**	**0.1677**	**1.2400e-003**	**0.1689**	**0.0445**	**1.1400e-003**	**0.0456**		**166.0347**	**166.0347**	**4.4800e-003**		**166.1466**

3.6 Architectural Coating - 2021

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	11.8443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**12.0632**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

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	0.0628	0.0410	0.5632	1.6700e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		166.0347	166.0347	4.4800e-003		166.1466
Total	**0.0628**	**0.0410**	**0.5632**	**1.6700e-003**	**0.1677**	**1.2400e-003**	**0.1689**	**0.0445**	**1.1400e-003**	**0.0456**		**166.0347**	**166.0347**	**4.4800e-003**		**166.1466**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.8443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**12.0488**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
Total	**0.0589**	**0.0370**	**0.5208**	**1.6100e-003**	**0.1677**	**1.2100e-003**	**0.1689**	**0.0445**	**1.1100e-003**	**0.0456**		**160.0895**	**160.0895**	**4.0500e-003**		**160.1906**

3.6 Architectural Coating - 2022

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	11.8443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**12.0488**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
Total	**0.0589**	**0.0370**	**0.5208**	**1.6100e-003**	**0.1677**	**1.2100e-003**	**0.1689**	**0.0445**	**1.1100e-003**	**0.0456**		**160.0895**	**160.0895**	**4.0500e-003**		**160.1906**

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	1.0816	4.6783	16.2939	0.0649	5.6513	0.0444	5.6957	1.5118	0.0413	1.5531		6,608.7954	6,608.7954	0.2836		6,615.8849
Unmitigated	1.0816	4.6783	16.2939	0.0649	5.6513	0.0444	5.6957	1.5118	0.0413	1.5531		6,608.7954	6,608.7954	0.2836		6,615.8849

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	622.59	211.07	86.46	2,080,764	2,080,764
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	622.59	211.07	86.46	2,080,764	2,080,764

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Non-Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869

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	0.0148	0.1349	0.1133	8.1000e-004		0.0103	0.0103		0.0103	0.0103		161.9081	161.9081	3.1000e-003	2.9700e-003	162.8703
NaturalGas Unmitigated	0.0148	0.1349	0.1133	8.1000e-004		0.0103	0.0103		0.0103	0.0103		161.9081	161.9081	3.1000e-003	2.9700e-003	162.8703

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	1376.22	0.0148	0.1349	0.1133	8.1000e-004		0.0103	0.0103		0.0103	0.0103		161.9081	161.9081	3.1000e-003	2.9700e-003	162.8703
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0148**	**0.1349**	**0.1133**	**8.1000e-004**		**0.0103**	**0.0103**		**0.0103**	**0.0103**		**161.9081**	**161.9081**	**3.1000e-003**	**2.9700e-003**	**162.8703**

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	1.37622	0.0148	0.1349	0.1133	8.1000e-004		0.0103	0.0103		0.0103	0.0103		161.9081	161.9081	3.1000e-003	2.9700e-003	162.8703
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0148**	**0.1349**	**0.1133**	**8.1000e-004**		**0.0103**	**0.0103**		**0.0103**	**0.0103**		**161.9081**	**161.9081**	**3.1000e-003**	**2.9700e-003**	**162.8703**

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	1.1353	1.6000e-004	0.0179	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0409
Unmitigated	1.1353	1.6000e-004	0.0179	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0409

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	0.1323					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6600e-003	1.6000e-004	0.0179	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0409
Total	**1.1353**	**1.6000e-004**	**0.0179**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0409**

6.2 Area by SubCategory

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	0.1323					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6600e-003	1.6000e-004	0.0179	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0409
Total	**1.1353**	**1.6000e-004**	**0.0179**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0409**

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

PHASE 3 SUMMER OUTPUT

Noho High School

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	123.02	1000sqft	2.82	123,020.00	0
High School	56.65	1000sqft	1.30	56,650.00	0
Other Asphalt Surfaces	91.49	1000sqft	2.10	91,490.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment -

Grading - g

Demolition -

Architectural Coating - g

Construction Off-road Equipment Mitigation -

Mobile Commute Mitigation -

Off-road Equipment - g

Off-road Equipment - g

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	230.00	130.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	PhaseEndDate	3/22/2023	11/29/2022
tblConstructionPhase	PhaseEndDate	1/25/2023	11/29/2022
tblConstructionPhase	PhaseEndDate	2/23/2022	3/30/2022
tblConstructionPhase	PhaseEndDate	2/22/2023	11/29/2022
tblConstructionPhase	PhaseEndDate	3/9/2022	5/31/2022
tblConstructionPhase	PhaseStartDate	2/23/2023	11/16/2022

tblConstructionPhase	PhaseStartDate	3/10/2022	6/1/2022
tblConstructionPhase	PhaseStartDate	1/26/2023	11/16/2022
tblConstructionPhase	PhaseStartDate	2/24/2022	3/31/2022
tblGrading	AcresOfGrading	22.00	1.20
tblGrading	MaterialExported	0.00	2,061.00
tblOffRoadEquipment	HorsePower	85.00	81.00
tblOffRoadEquipment	HorsePower	97.00	247.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.78	0.73
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.40
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType	Air Compressors	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Rollers	Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Tractors/Loaders/Backhoes

tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblTripsAndVMT	WorkerTripNumber	18.00	13.00
tblTripsAndVMT	WorkerTripNumber	25.00	18.00

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	6.6466	50.9364	56.7336	0.1111	6.3599	2.3678	7.3807	3.3956	2.1967	4.3357	0.0000	10,847.9177	10,847.9177	2.4537	0.0000	10,909.2608
Maximum	**6.6466**	**50.9364**	**56.7336**	**0.1111**	**6.3599**	**2.3678**	**7.3807**	**3.3956**	**2.1967**	**4.3357**	**0.0000**	**10,847.9177**	**10,847.9177**	**2.4537**	**0.0000**	**10,909.2608**

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	6.6466	50.9364	56.7336	0.1111	3.0290	2.3678	4.8212	1.5728	2.1967	2.8468	0.0000	10,847.9177	10,847.9177	2.4537	0.0000	10,909.2607
Maximum	**6.6466**	**50.9364**	**56.7336**	**0.1111**	**3.0290**	**2.3678**	**4.8212**	**1.5728**	**2.1967**	**2.8468**	**0.0000**	**10,847.9177**	**10,847.9177**	**2.4537**	**0.0000**	**10,909.2607**

	ROG	NOx	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**	**52.37**	**0.00**	**34.68**	**53.68**	**0.00**	**34.34**	**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	1.3604	2.5000e-004	0.0277	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0593	0.0593	1.6000e-004		0.0632
Energy	0.0174	0.1583	0.1329	9.5000e-004		0.0120	0.0120		0.0120	0.0120		189.8985	189.8985	3.6400e-003	3.4800e-003	191.0269
Mobile	1.2686	5.4871	19.1108	0.0761	6.6282	0.0521	6.6804	1.7732	0.0485	1.8216		7,751.3098	7,751.3098	0.3326		7,759.6249
Total	**2.6465**	**5.6456**	**19.2714**	**0.0771**	**6.6282**	**0.0642**	**6.6925**	**1.7732**	**0.0606**	**1.8338**		**7,941.2676**	**7,941.2676**	**0.3364**	**3.4800e-003**	**7,950.7150**

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	1.3604	2.5000e-004	0.0277	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0593	0.0593	1.6000e-004		0.0632
Energy	0.0174	0.1583	0.1329	9.5000e-004		0.0120	0.0120		0.0120	0.0120		189.8985	189.8985	3.6400e-003	3.4800e-003	191.0269
Mobile	1.2686	5.4871	19.1108	0.0761	6.6282	0.0521	6.6804	1.7732	0.0485	1.8216		7,751.3098	7,751.3098	0.3326		7,759.6249
Total	**2.6465**	**5.6456**	**19.2714**	**0.0771**	**6.6282**	**0.0642**	**6.6925**	**1.7732**	**0.0606**	**1.8338**		**7,941.2676**	**7,941.2676**	**0.3364**	**3.4800e-003**	**7,950.7150**

	ROG	NOx	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	1/27/2022	3/30/2022	5	45	
2	Grading	Grading	3/31/2022	5/31/2022	5	44	
3	Building Construction	Building Construction	6/1/2022	11/29/2022	5	130	
4	Asphalt Paving	Paving	11/16/2022	11/29/2022	5	10	
5	Concrete Paving	Paving	11/16/2022	11/29/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.2

Acres of Paving: 4.92

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Concrete Paving	Pavers	1	8.00	130	0.42
Concrete Paving	Excavators	1	8.00	158	0.38
Concrete Paving	Rollers	1	8.00	80	0.38

Concrete Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Asphalt Paving	Paving Equipment	2	8.00	132	0.36
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Crushing/Proc. Equipment	1	6.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Air Compressors	1	8.00	78	0.48
Asphalt Paving	Pavers	2	8.00	130	0.42
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Asphalt Paving	Rollers	2	8.00	80	0.38
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Rollers	1	8.00	80	0.38
Demolition	Tractors/Loaders/Backhoes	1	6.00	247	0.40
Asphalt Paving	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Concrete Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Concrete Paving	Paving Equipment	2	8.00	132	0.36
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Excavators	1	8.00	158	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Concrete Paving	7	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	10	18.00	0.00	230.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	114.00	44.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	258.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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					1.1038	0.0000	1.1038	0.1671	0.0000	0.1671			0.0000			0.0000
Off-Road	3.7418	34.6227	27.0569	0.0609		1.6032	1.6032		1.5054	1.5054		5,865.4557	5,865.4557	1.5259		5,903.6032
Total	**3.7418**	**34.6227**	**27.0569**	**0.0609**	**1.1038**	**1.6032**	**2.7071**	**0.1671**	**1.5054**	**1.6725**		**5,865.4557**	**5,865.4557**	**1.5259**		**5,903.6032**

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	0.0369	1.2267	0.2896	3.8700e-003	0.0893	3.5700e-003	0.0928	0.0245	3.4200e-003	0.0279		420.8160	420.8160	0.0295		421.5543
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	0.0707	0.0444	0.6250	1.9300e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		192.1074	192.1074	4.8500e-003		192.2287
Total	**0.1076**	**1.2711**	**0.9146**	**5.8000e-003**	**0.2905**	**5.0200e-003**	**0.2955**	**0.0778**	**4.7500e-003**	**0.0826**		**612.9234**	**612.9234**	**0.0344**		**613.7831**

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					0.4967	0.0000	0.4967	0.0752	0.0000	0.0752			0.0000			0.0000
Off-Road	3.7418	34.6227	27.0569	0.0609		1.6032	1.6032		1.5054	1.5054	0.0000	5,865.4557	5,865.4557	1.5259		5,903.6032
Total	**3.7418**	**34.6227**	**27.0569**	**0.0609**	**0.4967**	**1.6032**	**2.1000**	**0.0752**	**1.5054**	**1.5806**	**0.0000**	**5,865.4557**	**5,865.4557**	**1.5259**		**5,903.6032**

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	0.0369	1.2267	0.2896	3.8700e-003	0.0893	3.5700e-003	0.0928	0.0245	3.4200e-003	0.0279		420.8160	420.8160	0.0295		421.5543
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	0.0707	0.0444	0.6250	1.9300e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		192.1074	192.1074	4.8500e-003		192.2287
Total	**0.1076**	**1.2711**	**0.9146**	**5.8000e-003**	**0.2905**	**5.0200e-003**	**0.2955**	**0.0778**	**4.7500e-003**	**0.0826**		**612.9234**	**612.9234**	**0.0344**		**613.7831**

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					6.0563	0.0000	6.0563	3.3142	0.0000	3.3142			0.0000			0.0000
Off-Road	2.3546	23.4930	16.2197	0.0398		1.0153	1.0153		0.9348	0.9348		3,840.3222	3,840.3222	1.2345		3,871.1839
Total	**2.3546**	**23.4930**	**16.2197**	**0.0398**	**6.0563**	**1.0153**	**7.0716**	**3.3142**	**0.9348**	**4.2490**		**3,840.3222**	**3,840.3222**	**1.2345**		**3,871.1839**

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	0.0424	1.4073	0.3323	4.4400e-003	0.1024	4.1000e-003	0.1065	0.0281	3.9200e-003	0.0320		482.7741	482.7741	0.0339		483.6211
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	0.0707	0.0444	0.6250	1.9300e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		192.1074	192.1074	4.8500e-003		192.2287
Total	**0.1130**	**1.4517**	**0.9573**	**6.3700e-003**	**0.3036**	**5.5500e-003**	**0.3092**	**0.0814**	**5.2500e-003**	**0.0867**		**674.8815**	**674.8815**	**0.0387**		**675.8499**

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					2.7253	0.0000	2.7253	1.4914	0.0000	1.4914			0.0000			0.0000
Off-Road	2.3546	23.4930	16.2197	0.0398		1.0153	1.0153		0.9348	0.9348	0.0000	3,840.3222	3,840.3222	1.2345		3,871.1839
Total	**2.3546**	**23.4930**	**16.2197**	**0.0398**	**2.7253**	**1.0153**	**3.7406**	**1.4914**	**0.9348**	**2.4262**	**0.0000**	**3,840.3222**	**3,840.3222**	**1.2345**		**3,871.1839**

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	0.0424	1.4073	0.3323	4.4400e-003	0.1024	4.1000e-003	0.1065	0.0281	3.9200e-003	0.0320		482.7741	482.7741	0.0339		483.6211
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	0.0707	0.0444	0.6250	1.9300e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		192.1074	192.1074	4.8500e-003		192.2287
Total	**0.1130**	**1.4517**	**0.9573**	**6.3700e-003**	**0.3036**	**5.5500e-003**	**0.3092**	**0.0814**	**5.2500e-003**	**0.0867**		**674.8815**	**674.8815**	**0.0387**		**675.8499**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.4 Building Construction - 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	0.0000	0.0000	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	0.1162	4.0024	0.9688	0.0110	0.2816	7.4900e-003	0.2890	0.0811	7.1600e-003	0.0882		1,180.8290	1,180.8290	0.0711		1,182.6074
Worker	0.4476	0.2811	3.9583	0.0122	1.2743	9.1600e-003	1.2834	0.3379	8.4400e-003	0.3464		1,216.6800	1,216.6800	0.0308		1,217.4486
Total	**0.5638**	**4.2835**	**4.9270**	**0.0232**	**1.5558**	**0.0167**	**1.5724**	**0.4190**	**0.0156**	**0.4346**		**2,397.5090**	**2,397.5090**	**0.1019**		**2,400.0560**

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.4 Building Construction - 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	0.0000	0.0000	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	0.1162	4.0024	0.9688	0.0110	0.2816	7.4900e-003	0.2890	0.0811	7.1600e-003	0.0882		1,180.8290	1,180.8290	0.0711		1,182.6074
Worker	0.4476	0.2811	3.9583	0.0122	1.2743	9.1600e-003	1.2834	0.3379	8.4400e-003	0.3464		1,216.6800	1,216.6800	0.0308		1,217.4486
Total	**0.5638**	**4.2835**	**4.9270**	**0.0232**	**1.5558**	**0.0167**	**1.5724**	**0.4190**	**0.0156**	**0.4346**		**2,397.5090**	**2,397.5090**	**0.1019**		**2,400.0560**

3.5 Asphalt Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9301	19.8152	18.1204	0.0312		0.9804	0.9804		0.9019	0.9019		3,024.9780	3,024.9780	0.9783		3,049.4365
Paving	0.5502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4803**	**19.8152**	**18.1204**	**0.0312**		**0.9804**	**0.9804**		**0.9019**	**0.9019**		**3,024.9780**	**3,024.9780**	**0.9783**		**3,049.4365**

3.5 Asphalt Paving - 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	0.0000	0.0000	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	0.1413	0.0888	1.2500	3.8600e-003	0.7522	2.8900e-003	0.7551	0.1926	2.6600e-003	0.1953		384.2147	384.2147	9.7100e-003		384.4575
Total	**0.1413**	**0.0888**	**1.2500**	**3.8600e-003**	**0.7522**	**2.8900e-003**	**0.7551**	**0.1926**	**2.6600e-003**	**0.1953**		**384.2147**	**384.2147**	**9.7100e-003**		**384.4575**

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	1.9301	19.8152	18.1204	0.0312		0.9804	0.9804		0.9019	0.9019	0.0000	3,024.9780	3,024.9780	0.9783		3,049.4365
Paving	0.5502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4803**	**19.8152**	**18.1204**	**0.0312**		**0.9804**	**0.9804**		**0.9019**	**0.9019**	**0.0000**	**3,024.9780**	**3,024.9780**	**0.9783**		**3,049.4365**

3.5 Asphalt Paving - 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	0.0000	0.0000	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	0.1413	0.0888	1.2500	3.8600e-003	0.7522	2.8900e-003	0.7551	0.1926	2.6600e-003	0.1953		384.2147	384.2147	9.7100e-003		384.4575
Total	**0.1413**	**0.0888**	**1.2500**	**3.8600e-003**	**0.7522**	**2.8900e-003**	**0.7551**	**0.1926**	**2.6600e-003**	**0.1953**		**384.2147**	**384.2147**	**9.7100e-003**		**384.4575**

3.6 Concrete Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1538	11.1012	15.6215	0.0245		0.5579	0.5579		0.5144	0.5144		2,348.1382	2,348.1382	0.7483		2,366.8467
Paving	0.5502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7040**	**11.1012**	**15.6215**	**0.0245**		**0.5579**	**0.5579**		**0.5144**	**0.5144**		**2,348.1382**	**2,348.1382**	**0.7483**		**2,366.8467**

3.6 Concrete Paving - 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	0.0000	0.0000	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	0.0510	0.0321	0.4514	1.3900e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		138.7442	138.7442	3.5100e-003		138.8319
Total	**0.0510**	**0.0321**	**0.4514**	**1.3900e-003**	**0.1453**	**1.0400e-003**	**0.1464**	**0.0385**	**9.6000e-004**	**0.0395**		**138.7442**	**138.7442**	**3.5100e-003**		**138.8319**

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	1.1538	11.1012	15.6215	0.0245		0.5579	0.5579		0.5144	0.5144	0.0000	2,348.1382	2,348.1382	0.7483		2,366.8467
Paving	0.5502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7040**	**11.1012**	**15.6215**	**0.0245**		**0.5579**	**0.5579**		**0.5144**	**0.5144**	**0.0000**	**2,348.1382**	**2,348.1382**	**0.7483**		**2,366.8467**

3.6 Concrete Paving - 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	0.0000	0.0000	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	0.0510	0.0321	0.4514	1.3900e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		138.7442	138.7442	3.5100e-003		138.8319
Total	**0.0510**	**0.0321**	**0.4514**	**1.3900e-003**	**0.1453**	**1.0400e-003**	**0.1464**	**0.0385**	**9.6000e-004**	**0.0395**		**138.7442**	**138.7442**	**3.5100e-003**		**138.8319**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2686	5.4871	19.1108	0.0761	6.6282	0.0521	6.6804	1.7732	0.0485	1.8216		7,751.3098	7,751.3098	0.3326		7,759.6249
Unmitigated	1.2686	5.4871	19.1108	0.0761	6.6282	0.0521	6.6804	1.7732	0.0485	1.8216		7,751.3098	7,751.3098	0.3326		7,759.6249

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	730.22	247.56	101.40	2,440,482	2,440,482
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	730.22	247.56	101.40	2,440,482	2,440,482

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Non-Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869

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	0.0174	0.1583	0.1329	9.5000e-004		0.0120	0.0120		0.0120	0.0120		189.8985	189.8985	3.6400e-003	3.4800e-003	191.0269
NaturalGas Unmitigated	0.0174	0.1583	0.1329	9.5000e-004		0.0120	0.0120		0.0120	0.0120		189.8985	189.8985	3.6400e-003	3.4800e-003	191.0269

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	1614.14	0.0174	0.1583	0.1329	9.5000e-004		0.0120	0.0120		0.0120	0.0120		189.8985	189.8985	3.6400e-003	3.4800e-003	191.0269
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0174**	**0.1583**	**0.1329**	**9.5000e-004**		**0.0120**	**0.0120**		**0.0120**	**0.0120**		**189.8985**	**189.8985**	**3.6400e-003**	**3.4800e-003**	**191.0269**

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	1.61414	0.0174	0.1583	0.1329	9.5000e-004		0.0120	0.0120		0.0120	0.0120		189.8985	189.8985	3.6400e-003	3.4800e-003	191.0269
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0174**	**0.1583**	**0.1329**	**9.5000e-004**		**0.0120**	**0.0120**		**0.0120**	**0.0120**		**189.8985**	**189.8985**	**3.6400e-003**	**3.4800e-003**	**191.0269**

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	1.3604	2.5000e-004	0.0277	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0593	0.0593	1.6000e-004		0.0632
Unmitigated	1.3604	2.5000e-004	0.0277	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0593	0.0593	1.6000e-004		0.0632

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	0.1602					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1977					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5600e-003	2.5000e-004	0.0277	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0593	0.0593	1.6000e-004		0.0632
Total	**1.3604**	**2.5000e-004**	**0.0277**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0593**	**0.0593**	**1.6000e-004**		**0.0632**

6.2 Area by SubCategory

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	0.1602					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1977					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5600e-003	2.5000e-004	0.0277	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0593	0.0593	1.6000e-004		0.0632
Total	**1.3604**	**2.5000e-004**	**0.0277**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0593**	**0.0593**	**1.6000e-004**		**0.0632**

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

PHASE 1 WINTER OUTPUT

Noho High School

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	30.99	1000sqft	0.71	30,990.00	0
High School	155.10	1000sqft	3.56	155,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - g

Demolition -

Architectural Coating - g

Construction Off-road Equipment Mitigation -

Mobile Commute Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	232,650.00	134,262.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	230.00	340.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	8.00	50.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	5.00	6.00
tblConstructionPhase	PhaseEndDate	10/22/2020	5/3/2021
tblConstructionPhase	PhaseEndDate	9/2/2020	3/22/2021
tblConstructionPhase	PhaseEndDate	9/27/2019	9/13/2019
tblConstructionPhase	PhaseEndDate	10/16/2019	12/2/2019

tblConstructionPhase	PhaseEndDate	9/28/2020	5/3/2021
tblConstructionPhase	PhaseEndDate	10/4/2019	9/23/2019
tblConstructionPhase	PhaseStartDate	9/29/2020	3/23/2021
tblConstructionPhase	PhaseStartDate	10/17/2019	12/3/2019
tblConstructionPhase	PhaseStartDate	10/5/2019	9/24/2019
tblConstructionPhase	PhaseStartDate	9/3/2020	3/23/2021
tblConstructionPhase	PhaseStartDate	9/28/2019	9/16/2019
tblGrading	AcresOfGrading	25.00	4.00
tblGrading	MaterialExported	0.00	5,744.40
tblOffRoadEquipment	HorsePower	158.00	81.00
tblOffRoadEquipment	HorsePower	97.00	158.00
tblOffRoadEquipment	HorsePower	187.00	158.00
tblOffRoadEquipment	HorsePower	85.00	247.00
tblOffRoadEquipment	HorsePower	80.00	247.00
tblOffRoadEquipment	HorsePower	402.00	97.00
tblOffRoadEquipment	HorsePower	8.00	97.00
tblOffRoadEquipment	HorsePower	8.00	187.00
tblOffRoadEquipment	HorsePower	158.00	247.00
tblOffRoadEquipment	LoadFactor	0.38	0.73
tblOffRoadEquipment	LoadFactor	0.37	0.38
tblOffRoadEquipment	LoadFactor	0.41	0.38
tblOffRoadEquipment	LoadFactor	0.78	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	LoadFactor	0.43	0.37
tblOffRoadEquipment	LoadFactor	0.43	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.40

tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Excavators	Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType	Tractors/Loaders/Backhoes	Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType	Graders	Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblTripsAndVMT	WorkerTripNumber	25.00	18.00

tblTripsAndVMT	WorkerTripNumber	25.00	15.00
tblTripsAndVMT	WorkerTripNumber	25.00	18.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.5129	57.0219	30.1169	0.0662	18.2675	2.7989	21.0663	9.9840	2.5750	12.5590	0.0000	6,510.4697	6,510.4697	1.8391	0.0000	6,547.8713
2020	2.6123	22.7096	20.6113	0.0430	1.0702	1.1401	2.2103	0.2883	1.0722	1.3605	0.0000	4,212.5570	4,212.5570	0.7048	0.0000	4,230.1768
2021	34.4910	20.6277	20.0275	0.0427	1.0702	0.9713	2.0415	0.2883	0.9132	1.2015	0.0000	4,179.5805	4,179.5805	0.6933	0.0000	4,196.9120
Maximum	**34.4910**	**57.0219**	**30.1169**	**0.0662**	**18.2675**	**2.7989**	**21.0663**	**9.9840**	**2.5750**	**12.5590**	**0.0000**	**6,510.4697**	**6,510.4697**	**1.8391**	**0.0000**	**6,547.8713**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	5.5129	57.0219	30.1169	0.0662	8.3310	2.7989	11.1299	4.5222	2.5750	7.0971	0.0000	6,510.4697	6,510.4697	1.8391	0.0000	6,547.8712
2020	2.6123	22.7096	20.6113	0.0430	1.0702	1.1401	2.2103	0.2883	1.0722	1.3605	0.0000	4,212.5570	4,212.5570	0.7048	0.0000	4,230.1768
2021	34.4910	20.6277	20.0275	0.0427	1.0702	0.9713	2.0415	0.2883	0.9132	1.2015	0.0000	4,179.5805	4,179.5805	0.6933	0.0000	4,196.9120
Maximum	**34.4910**	**57.0219**	**30.1169**	**0.0662**	**8.3310**	**2.7989**	**11.1299**	**4.5222**	**2.5750**	**7.0971**	**0.0000**	**6,510.4697**	**6,510.4697**	**1.8391**	**0.0000**	**6,547.8712**

Noho High School - South Coast Air Basin, Winter

	ROG	NOx	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**	**48.69**	**0.00**	**39.25**	**51.72**	**0.00**	**36.12**	**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	3.4800	1.7000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0407	0.0407	1.1000e-004		0.0434
Energy	0.0477	0.4333	0.3639	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.9162	519.9162	9.9700e-003	9.5300e-003	523.0058
Mobile	3.3302	15.4285	48.6095	0.1978	18.1472	0.1432	18.2904	4.8548	0.1332	4.9879		20,160.7708	20,160.7708	0.9033		20,183.3522
Total	**6.8578**	**15.8619**	**48.9925**	**0.2004**	**18.1472**	**0.1762**	**18.3234**	**4.8548**	**0.1662**	**5.0209**		**20,680.7277**	**20,680.7277**	**0.9133**	**9.5300e-003**	**20,706.4014**

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	3.4800	1.7000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0407	0.0407	1.1000e-004		0.0434
Energy	0.0477	0.4333	0.3639	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.9162	519.9162	9.9700e-003	9.5300e-003	523.0058
Mobile	3.3302	15.4285	48.6095	0.1978	18.1472	0.1432	18.2904	4.8548	0.1332	4.9879		20,160.7708	20,160.7708	0.9033		20,183.3522
Total	**6.8578**	**15.8619**	**48.9925**	**0.2004**	**18.1472**	**0.1762**	**18.3234**	**4.8548**	**0.1662**	**5.0209**		**20,680.7277**	**20,680.7277**	**0.9133**	**9.5300e-003**	**20,706.4014**

	ROG	NOx	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	9/2/2019	9/13/2019	5	10	
2	Site Preparation	Site Preparation	9/16/2019	9/23/2019	5	6	
3	Grading	Grading	9/24/2019	12/2/2019	5	50	
4	Building Construction	Building Construction	12/3/2019	3/22/2021	5	340	
5	Paving	Paving	3/23/2021	5/3/2021	5	30	
6	Architectural Coating	Architectural Coating	3/23/2021	5/3/2021	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.71

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 134,262; Non-Residential Outdoor: 77,550; Striped Parking Area: 1,859 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Excavators	1	8.00	81	0.73
Demolition	Tractors/Loaders/Backhoes	1	6.00	158	0.38

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Graders	1	8.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Crushing/Proc. Equipment	1	6.00	247	0.40
Grading	Rollers	2	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Off-Highway Trucks	1	8.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Plate Compactors	1	8.00	97	0.37
Grading	Plate Compactors	1	8.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Excavators	1	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Air Compressors	1	8.00	78	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Trenchers	1	8.00	78	0.50
Site Preparation	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	158	0.38

Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	16.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	78.00	31.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	10	18.00	0.00	37.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	10	15.00	0.00	718.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	10	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7968	0.0000	0.7968	0.1207	0.0000	0.1207			0.0000			0.0000
Off-Road	4.9192	48.3842	29.1478	0.0614		2.3719	2.3719		2.2219	2.2219		6,001.6401	6,001.6401	1.4663		6,038.2982
Total	**4.9192**	**48.3842**	**29.1478**	**0.0614**	**0.7968**	**2.3719**	**3.1687**	**0.1207**	**2.2219**	**2.3426**		**6,001.6401**	**6,001.6401**	**1.4663**		**6,038.2982**

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	0.0327	1.1166	0.2365	2.8600e-003	0.0646	4.2000e-003	0.0688	0.0177	4.0100e-003	0.0217		309.5395	309.5395	0.0235		310.1268
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	0.0960	0.0672	0.7326	2.0000e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		199.2901	199.2901	6.2500e-003		199.4463
Total	**0.1287**	**1.1838**	**0.9691**	**4.8600e-003**	**0.2658**	**5.7700e-003**	**0.2716**	**0.0711**	**5.4600e-003**	**0.0765**		**508.8296**	**508.8296**	**0.0297**		**509.5731**

3.2 Demolition - 2019

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					0.3586	0.0000	0.3586	0.0543	0.0000	0.0543			0.0000			0.0000
Off-Road	4.9192	48.3842	29.1478	0.0614		2.3719	2.3719		2.2219	2.2219	0.0000	6,001.6401	6,001.6401	1.4663		6,038.2982
Total	**4.9192**	**48.3842**	**29.1478**	**0.0614**	**0.3586**	**2.3719**	**2.7304**	**0.0543**	**2.2219**	**2.2762**	**0.0000**	**6,001.6401**	**6,001.6401**	**1.4663**		**6,038.2982**

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	0.0327	1.1166	0.2365	2.8600e-003	0.0646	4.2000e-003	0.0688	0.0177	4.0100e-003	0.0217		309.5395	309.5395	0.0235		310.1268
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	0.0960	0.0672	0.7326	2.0000e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		199.2901	199.2901	6.2500e-003		199.4463
Total	**0.1287**	**1.1838**	**0.9691**	**4.8600e-003**	**0.2658**	**5.7700e-003**	**0.2716**	**0.0711**	**5.4600e-003**	**0.0765**		**508.8296**	**508.8296**	**0.0297**		**509.5731**

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.4170	56.9547	27.0457	0.0585		2.7973	2.7973		2.5735	2.5735		5,792.8977	5,792.8977	1.8328		5,838.7180
Total	**5.4170**	**56.9547**	**27.0457**	**0.0585**	**18.0663**	**2.7973**	**20.8636**	**9.9307**	**2.5735**	**12.5042**		**5,792.8977**	**5,792.8977**	**1.8328**		**5,838.7180**

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	0.0960	0.0672	0.7326	2.0000e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		199.2901	199.2901	6.2500e-003		199.4463
Total	**0.0960**	**0.0672**	**0.7326**	**2.0000e-003**	**0.2012**	**1.5700e-003**	**0.2028**	**0.0534**	**1.4500e-003**	**0.0548**		**199.2901**	**199.2901**	**6.2500e-003**		**199.4463**

3.3 Site Preparation - 2019

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	5.4170	56.9547	27.0457	0.0585		2.7973	2.7973		2.5735	2.5735	0.0000	5,792.8977	5,792.8977	1.8328		5,838.7180
Total	**5.4170**	**56.9547**	**27.0457**	**0.0585**	**8.1298**	**2.7973**	**10.9271**	**4.4688**	**2.5735**	**7.0423**	**0.0000**	**5,792.8977**	**5,792.8977**	**1.8328**		**5,838.7180**

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	0.0960	0.0672	0.7326	2.0000e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		199.2901	199.2901	6.2500e-003		199.4463
Total	**0.0960**	**0.0672**	**0.7326**	**2.0000e-003**	**0.2012**	**1.5700e-003**	**0.2028**	**0.0534**	**1.4500e-003**	**0.0548**		**199.2901**	**199.2901**	**6.2500e-003**		**199.4463**

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1199	0.0000	6.1199	3.3214	0.0000	3.3214			0.0000			0.0000
Off-Road	3.2752	35.5307	21.5397	0.0409		1.7755	1.7755		1.6335	1.6335		4,051.6006	4,051.6006	1.2819		4,083.6477
Total	**3.2752**	**35.5307**	**21.5397**	**0.0409**	**6.1199**	**1.7755**	**7.8954**	**3.3214**	**1.6335**	**4.9548**		**4,051.6006**	**4,051.6006**	**1.2819**		**4,083.6477**

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	0.1270	4.3338	0.9180	0.0111	0.2508	0.0163	0.2671	0.0687	0.0156	0.0843		1,201.3480	1,201.3480	0.0912		1,203.6271
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	0.0800	0.0560	0.6105	1.6700e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		166.0751	166.0751	5.2100e-003		166.2053
Total	**0.2069**	**4.3898**	**1.5285**	**0.0128**	**0.4185**	**0.0176**	**0.4361**	**0.1132**	**0.0168**	**0.1300**		**1,367.4231**	**1,367.4231**	**0.0964**		**1,369.8323**

3.4 Grading - 2019

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					2.7540	0.0000	2.7540	1.4946	0.0000	1.4946			0.0000			0.0000
Off-Road	3.2752	35.5307	21.5397	0.0409		1.7755	1.7755		1.6335	1.6335	0.0000	4,051.6006	4,051.6006	1.2819		4,083.6477
Total	**3.2752**	**35.5307**	**21.5397**	**0.0409**	**2.7540**	**1.7755**	**4.5295**	**1.4946**	**1.6335**	**3.1281**	**0.0000**	**4,051.6006**	**4,051.6006**	**1.2819**		**4,083.6477**

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	0.1270	4.3338	0.9180	0.0111	0.2508	0.0163	0.2671	0.0687	0.0156	0.0843		1,201.3480	1,201.3480	0.0912		1,203.6271
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	0.0800	0.0560	0.6105	1.6700e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		166.0751	166.0751	5.2100e-003		166.2053
Total	**0.2069**	**4.3898**	**1.5285**	**0.0128**	**0.4185**	**0.0176**	**0.4361**	**0.1132**	**0.0168**	**0.1300**		**1,367.4231**	**1,367.4231**	**0.0964**		**1,369.8323**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

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	0.1260	3.5629	0.9718	7.7600e-003	0.1984	0.0240	0.2223	0.0571	0.0229	0.0800		828.1307	828.1307	0.0612		829.6617
Worker	0.4159	0.2912	3.1744	8.6700e-003	0.8719	6.8200e-003	0.8787	0.2312	6.2900e-003	0.2375		863.5905	863.5905	0.0271		864.2674
Total	**0.5419**	**3.8541**	**4.1462**	**0.0164**	**1.0702**	**0.0308**	**1.1010**	**0.2883**	**0.0292**	**0.3175**		**1,691.7212**	**1,691.7212**	**0.0883**		**1,693.9291**

3.5 Building Construction - 2019

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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

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	0.1260	3.5629	0.9718	7.7600e-003	0.1984	0.0240	0.2223	0.0571	0.0229	0.0800		828.1307	828.1307	0.0612		829.6617
Worker	0.4159	0.2912	3.1744	8.6700e-003	0.8719	6.8200e-003	0.8787	0.2312	6.2900e-003	0.2375		863.5905	863.5905	0.0271		864.2674
Total	**0.5419**	**3.8541**	**4.1462**	**0.0164**	**1.0702**	**0.0308**	**1.1010**	**0.2883**	**0.0292**	**0.3175**		**1,691.7212**	**1,691.7212**	**0.0883**		**1,693.9291**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1076	3.2638	0.8800	7.7000e-003	0.1984	0.0164	0.2148	0.0571	0.0157	0.0728		822.6699	822.6699	0.0579		824.1161
Worker	0.3849	0.2598	2.8827	8.4000e-003	0.8719	6.6500e-003	0.8785	0.2312	6.1300e-003	0.2374		836.8240	836.8240	0.0241		837.4262
Total	**0.4925**	**3.5236**	**3.7628**	**0.0161**	**1.0702**	**0.0231**	**1.0933**	**0.2883**	**0.0218**	**0.3102**		**1,659.4939**	**1,659.4939**	**0.0819**		**1,661.5423**

3.5 Building Construction - 2020

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1076	3.2638	0.8800	7.7000e-003	0.1984	0.0164	0.2148	0.0571	0.0157	0.0728		822.6699	822.6699	0.0579		824.1161
Worker	0.3849	0.2598	2.8827	8.4000e-003	0.8719	6.6500e-003	0.8785	0.2312	6.1300e-003	0.2374		836.8240	836.8240	0.0241		837.4262
Total	**0.4925**	**3.5236**	**3.7628**	**0.0161**	**1.0702**	**0.0231**	**1.0933**	**0.2883**	**0.0218**	**0.3102**		**1,659.4939**	**1,659.4939**	**0.0819**		**1,661.5423**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

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	0.0916	2.9618	0.8013	7.6300e-003	0.1984	6.2500e-003	0.2046	0.0571	5.9800e-003	0.0631		816.4587	816.4587	0.0555		817.8454
Worker	0.3597	0.2338	2.6510	8.1300e-003	0.8719	6.4500e-003	0.8783	0.2312	5.9400e-003	0.2372		809.7579	809.7579	0.0218		810.3024
Total	**0.4513**	**3.1956**	**3.4523**	**0.0158**	**1.0702**	**0.0127**	**1.0829**	**0.2883**	**0.0119**	**0.3002**		**1,626.2166**	**1,626.2166**	**0.0773**		**1,628.1478**

3.5 Building Construction - 2021

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

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	0.0916	2.9618	0.8013	7.6300e-003	0.1984	6.2500e-003	0.2046	0.0571	5.9800e-003	0.0631		816.4587	816.4587	0.0555		817.8454
Worker	0.3597	0.2338	2.6510	8.1300e-003	0.8719	6.4500e-003	0.8783	0.2312	5.9400e-003	0.2372		809.7579	809.7579	0.0218		810.3024
Total	**0.4513**	**3.1956**	**3.4523**	**0.0158**	**1.0702**	**0.0127**	**1.0829**	**0.2883**	**0.0119**	**0.3002**		**1,626.2166**	**1,626.2166**	**0.0773**		**1,628.1478**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0940**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**		**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

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	0.0922	0.0600	0.6797	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.6302	207.6302	5.5800e-003		207.7698
Total	**0.0922**	**0.0600**	**0.6797**	**2.0800e-003**	**0.2236**	**1.6500e-003**	**0.2252**	**0.0593**	**1.5200e-003**	**0.0608**		**207.6302**	**207.6302**	**5.5800e-003**		**207.7698**

3.6 Paving - 2021

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	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0940**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**	**0.0000**	**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

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	0.0922	0.0600	0.6797	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.6302	207.6302	5.5800e-003		207.7698
Total	**0.0922**	**0.0600**	**0.6797**	**2.0800e-003**	**0.2236**	**1.6500e-003**	**0.2252**	**0.0593**	**1.5200e-003**	**0.0608**		**207.6302**	**207.6302**	**5.5800e-003**		**207.7698**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	33.0122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**33.2311**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

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	0.0738	0.0480	0.5438	1.6700e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2200e-003	0.0487		166.1042	166.1042	4.4700e-003		166.2159
Total	**0.0738**	**0.0480**	**0.5438**	**1.6700e-003**	**0.1788**	**1.3200e-003**	**0.1802**	**0.0474**	**1.2200e-003**	**0.0487**		**166.1042**	**166.1042**	**4.4700e-003**		**166.2159**

3.7 Architectural Coating - 2021

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	33.0122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**33.2311**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

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	0.0738	0.0480	0.5438	1.6700e-003	0.1788	1.3200e-003	0.1802	0.0474	1.2200e-003	0.0487		166.1042	166.1042	4.4700e-003		166.2159
Total	**0.0738**	**0.0480**	**0.5438**	**1.6700e-003**	**0.1788**	**1.3200e-003**	**0.1802**	**0.0474**	**1.2200e-003**	**0.0487**		**166.1042**	**166.1042**	**4.4700e-003**		**166.2159**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.3302	15.4285	48.6095	0.1978	18.1472	0.1432	18.2904	4.8548	0.1332	4.9879		20,160.7708	20,160.7708	0.9033		20,183.3522
Unmitigated	3.3302	15.4285	48.6095	0.1978	18.1472	0.1432	18.2904	4.8548	0.1332	4.9879		20,160.7708	20,160.7708	0.9033		20,183.3522

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	1,999.24	677.79	277.63	6,681,707	6,681,707
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,999.24	677.79	277.63	6,681,707	6,681,707

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Non-Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869

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	0.0477	0.4333	0.3639	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.9162	519.9162	9.9700e-003	9.5300e-003	523.0058
NaturalGas Unmitigated	0.0477	0.4333	0.3639	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.9162	519.9162	9.9700e-003	9.5300e-003	523.0058

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	4419.29	0.0477	0.4333	0.3639	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.9162	519.9162	9.9700e-003	9.5300e-003	523.0058
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0477**	**0.4333**	**0.3639**	**2.6000e-003**		**0.0329**	**0.0329**		**0.0329**	**0.0329**		**519.9162**	**519.9162**	**9.9700e-003**	**9.5300e-003**	**523.0058**

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	4.41929	0.0477	0.4333	0.3639	2.6000e-003		0.0329	0.0329		0.0329	0.0329		519.9162	519.9162	9.9700e-003	9.5300e-003	523.0058
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0477**	**0.4333**	**0.3639**	**2.6000e-003**		**0.0329**	**0.0329**		**0.0329**	**0.0329**		**519.9162**	**519.9162**	**9.9700e-003**	**9.5300e-003**	**523.0058**

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	3.4800	1.7000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0407	0.0407	1.1000e-004		0.0434
Unmitigated	3.4800	1.7000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0407	0.0407	1.1000e-004		0.0434

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	0.3963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7600e-003	1.7000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0407	0.0407	1.1000e-004		0.0434
Total	**3.4800**	**1.7000e-004**	**0.0190**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0407**	**0.0407**	**1.1000e-004**		**0.0434**

6.2 Area by SubCategory

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	0.3963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0820					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.7600e-003	1.7000e-004	0.0190	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0407	0.0407	1.1000e-004		0.0434
Total	**3.4800**	**1.7000e-004**	**0.0190**	**0.0000**		**7.0000e-005**	**7.0000e-005**		**7.0000e-005**	**7.0000e-005**		**0.0407**	**0.0407**	**1.1000e-004**		**0.0434**

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

PHASE 2 WINTER OUTPUT

Noho High School

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	48.30	1000sqft	1.11	48,300.00	0
Other Non-Asphalt Surfaces	85.88	1000sqft	1.97	85,880.00	0
Other Asphalt Surfaces	41.07	1000sqft	0.94	41,071.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment -

Off-road Equipment - g

Off-road Equipment -

Demolition -

Architectural Coating - g

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	72,450.00	44,895.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	230.00	433.00
tblConstructionPhase	NumDays	20.00	87.00
tblConstructionPhase	NumDays	18.00	30.00
tblConstructionPhase	NumDays	5.00	87.00
tblConstructionPhase	PhaseEndDate	3/23/2021	1/26/2022
tblConstructionPhase	PhaseEndDate	2/1/2021	1/26/2022
tblConstructionPhase	PhaseEndDate	2/26/2020	5/29/2020
tblConstructionPhase	PhaseEndDate	2/25/2021	12/15/2021
tblConstructionPhase	PhaseEndDate	3/4/2020	9/29/2020
tblConstructionPhase	PhaseStartDate	2/26/2021	12/16/2021
tblConstructionPhase	PhaseStartDate	3/17/2020	6/1/2020

tblConstructionPhase	PhaseStartDate	2/2/2021	11/4/2021
tblConstructionPhase	PhaseStartDate	2/27/2020	6/1/2020
tblOffRoadEquipment	LoadFactor	0.37	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	29.00
tblTripsAndVMT	WorkerTripNumber	23.00	15.00
tblTripsAndVMT	WorkerTripNumber	23.00	15.00
tblTripsAndVMT	WorkerTripNumber	30.00	25.00
tblTripsAndVMT	WorkerTripNumber	30.00	25.00

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					
2020	7.5061	71.2942	45.1541	0.0897	19.2466	3.6160	22.8627	10.2479	3.3709	13.6188	0.0000	8,695.2656	8,695.2656	1.9395	0.0000	8,743.7533
2021	14.4603	60.7784	48.3375	0.0987	2.3753	2.8680	5.2433	0.6262	2.6600	3.2862	0.0000	9,662.7591	9,662.7591	2.1267	0.0000	9,715.9268
2022	14.2216	19.8949	21.6792	0.0459	1.1804	0.9030	2.0834	0.3173	0.8543	1.1716	0.0000	4,483.6169	4,483.6169	0.7028	0.0000	4,501.1865
Maximum	**14.4603**	**71.2942**	**48.3375**	**0.0987**	**19.2466**	**3.6160**	**22.8627**	**10.2479**	**3.3709**	**13.6188**	**0.0000**	**9,662.7591**	**9,662.7591**	**2.1267**	**0.0000**	**9,715.9268**

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					
2020	7.5061	71.2942	45.1541	0.0897	9.3102	3.6160	12.9262	4.7861	3.3709	8.1569	0.0000	8,695.2656	8,695.2656	1.9395	0.0000	8,743.7533
2021	14.4603	60.7784	48.3375	0.0987	2.3753	2.8680	5.2433	0.6262	2.6600	3.2862	0.0000	9,662.7591	9,662.7591	2.1267	0.0000	9,715.9267
2022	14.2216	19.8949	21.6792	0.0459	1.1804	0.9030	2.0834	0.3173	0.8543	1.1716	0.0000	4,483.6169	4,483.6169	0.7028	0.0000	4,501.1865
Maximum	**14.4603**	**71.2942**	**48.3375**	**0.0987**	**9.3102**	**3.6160**	**12.9262**	**4.7861**	**3.3709**	**8.1569**	**0.0000**	**9,662.7591**	**9,662.7591**	**2.1267**	**0.0000**	**9,715.9267**

Noho High School - South Coast Air Basin, Winter

	ROG	NOx	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**	**43.58**	**0.00**	**32.91**	**48.80**	**0.00**	**30.22**	**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	1.1353	1.6000e-004	0.0179	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0409
Energy	0.0148	0.1349	0.1133	8.1000e-004		0.0103	0.0103		0.0103	0.0103		161.9081	161.9081	3.1000e-003	2.9700e-003	162.8703
Mobile	1.0371	4.8046	15.1376	0.0616	5.6513	0.0446	5.6959	1.5118	0.0415	1.5533		6,278.3058	6,278.3058	0.2813		6,285.3379
Total	**2.1872**	**4.9397**	**15.2688**	**0.0624**	**5.6513**	**0.0549**	**5.7062**	**1.5118**	**0.0518**	**1.5636**		**6,440.2523**	**6,440.2523**	**0.2845**	**2.9700e-003**	**6,448.2491**

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	1.1353	1.6000e-004	0.0179	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0409
Energy	0.0148	0.1349	0.1133	8.1000e-004		0.0103	0.0103		0.0103	0.0103		161.9081	161.9081	3.1000e-003	2.9700e-003	162.8703
Mobile	1.0371	4.8046	15.1376	0.0616	5.6513	0.0446	5.6959	1.5118	0.0415	1.5533		6,278.3058	6,278.3058	0.2813		6,285.3379
Total	**2.1872**	**4.9397**	**15.2688**	**0.0624**	**5.6513**	**0.0549**	**5.7062**	**1.5118**	**0.0518**	**1.5636**		**6,440.2523**	**6,440.2523**	**0.2845**	**2.9700e-003**	**6,448.2491**

	ROG	NOx	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	1/30/2020	5/29/2020	5	87	
2	Renovation	Site Preparation	6/1/2020	9/29/2020	5	87	
3	Building Construction	Building Construction	6/1/2020	1/26/2022	5	433	
4	Asphalt Paving	Paving	11/4/2021	12/15/2021	5	30	
5	Architectural Coating	Architectural Coating	12/16/2021	1/26/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.91

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 44,895; Non-Residential Outdoor: 24,150; Striped Parking Area: 7,617 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Concrete Paving	Air Compressors	1	6.00	78	0.48
Concrete Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.36
Demolition	Excavators	1	8.00	158	0.38
Asphalt Paving	Cement and Mortar Mixers	2	6.00	9	0.56

Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt Paving	Excavators	1	6.00	158	0.38
Concrete Paving	Pavers	1	8.00	130	0.42
Concrete Paving	Rollers	2	6.00	80	0.38
Demolition	Crushing/Proc. Equipment	1	6.00	85	0.78
Asphalt Paving	Rubber Tired Dozers	2	8.00	247	0.40
Asphalt Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Asphalt Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Concrete Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Renovation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Renovation	Rubber Tired Dozers	3	8.00	247	0.40
Concrete Paving	Paving Equipment	2	6.00	132	0.36
Renovation	Cranes	1	8.00	231	0.29
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Asphalt Paving	Pavers	2	8.00	130	0.42
Asphalt Paving	Paving Equipment	1	6.00	132	0.36
Asphalt Paving	Rollers	2	6.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Air Compressors	1	8.00	78	0.48
Renovation	Forklifts	2	8.00	89	0.20

Renovation	Generator Sets	1	8.00	84	0.74
Renovation	Welders	1	6.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	9	15.00	0.00	343.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Renovation	9	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	12	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	12	25.00	29.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	74.00	29.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8533	0.0000	0.8533	0.1292	0.0000	0.1292			0.0000			0.0000
Off-Road	4.4588	42.4188	27.8008	0.0553		2.1280	2.1280		1.9999	1.9999		5,324.9818	5,324.9818	1.3514		5,358.7668
Total	**4.4588**	**42.4188**	**27.8008**	**0.0553**	**0.8533**	**2.1280**	**2.9813**	**0.1292**	**1.9999**	**2.1291**		**5,324.9818**	**5,324.9818**	**1.3514**		**5,358.7668**

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	0.0322	1.1128	0.2440	3.0100e-003	0.0689	3.6100e-003	0.0725	0.0189	3.4500e-003	0.0223		326.4464	326.4464	0.0244		327.0563
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	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435
Total	**0.1062**	**1.1628**	**0.7983**	**4.6300e-003**	**0.2365**	**4.8900e-003**	**0.2414**	**0.0633**	**4.6300e-003**	**0.0680**		**487.3741**	**487.3741**	**0.0290**		**488.0998**

3.2 Demolition - 2020

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					0.3840	0.0000	0.3840	0.0581	0.0000	0.0581			0.0000			0.0000
Off-Road	4.4588	42.4188	27.8008	0.0553		2.1280	2.1280		1.9999	1.9999	0.0000	5,324.9818	5,324.9818	1.3514		5,358.7668
Total	**4.4588**	**42.4188**	**27.8008**	**0.0553**	**0.3840**	**2.1280**	**2.5120**	**0.0581**	**1.9999**	**2.0580**	**0.0000**	**5,324.9818**	**5,324.9818**	**1.3514**		**5,358.7668**

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	0.0322	1.1128	0.2440	3.0100e-003	0.0689	3.6100e-003	0.0725	0.0189	3.4500e-003	0.0223		326.4464	326.4464	0.0244		327.0563
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	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435
Total	**0.1062**	**1.1628**	**0.7983**	**4.6300e-003**	**0.2365**	**4.8900e-003**	**0.2414**	**0.0633**	**4.6300e-003**	**0.0680**		**487.3741**	**487.3741**	**0.0290**		**488.0998**

3.3 Renovation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.8465	48.7585	24.1930	0.0460		2.4760	2.4760		2.2989	2.2989		4,417.7705	4,417.7705	1.2351		4,448.6468
Total	**4.8465**	**48.7585**	**24.1930**	**0.0460**	**18.0663**	**2.4760**	**20.5423**	**9.9307**	**2.2989**	**12.2295**		**4,417.7705**	**4,417.7705**	**1.2351**		**4,448.6468**

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	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435
Total	**0.0740**	**0.0500**	**0.5544**	**1.6200e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1800e-003**	**0.0456**		**160.9277**	**160.9277**	**4.6300e-003**		**161.0435**

3.3 Renovation - 2020

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	4.8465	48.7585	24.1930	0.0460		2.4760	2.4760		2.2989	2.2989	0.0000	4,417.7705	4,417.7705	1.2351		4,448.6468
Total	**4.8465**	**48.7585**	**24.1930**	**0.0460**	**8.1298**	**2.4760**	**10.6059**	**4.4688**	**2.2989**	**6.7677**	**0.0000**	**4,417.7705**	**4,417.7705**	**1.2351**		**4,448.6468**

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	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435
Total	**0.0740**	**0.0500**	**0.5544**	**1.6200e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1800e-003**	**0.0456**		**160.9277**	**160.9277**	**4.6300e-003**		**161.0435**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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	0.1007	3.0532	0.8233	7.2000e-003	0.1856	0.0154	0.2009	0.0534	0.0147	0.0681		769.5944	769.5944	0.0541		770.9474
Worker	0.3651	0.2465	2.7349	7.9700e-003	0.8272	6.3100e-003	0.8335	0.2194	5.8100e-003	0.2252		793.9100	793.9100	0.0229		794.4812
Total	**0.4658**	**3.2997**	**3.5582**	**0.0152**	**1.0127**	**0.0217**	**1.0344**	**0.2728**	**0.0205**	**0.2933**		**1,563.5044**	**1,563.5044**	**0.0770**		**1,565.4286**

3.4 Building Construction - 2020

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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	0.1007	3.0532	0.8233	7.2000e-003	0.1856	0.0154	0.2009	0.0534	0.0147	0.0681		769.5944	769.5944	0.0541		770.9474
Worker	0.3651	0.2465	2.7349	7.9700e-003	0.8272	6.3100e-003	0.8335	0.2194	5.8100e-003	0.2252		793.9100	793.9100	0.0229		794.4812
Total	**0.4658**	**3.2997**	**3.5582**	**0.0152**	**1.0127**	**0.0217**	**1.0344**	**0.2728**	**0.0205**	**0.2933**		**1,563.5044**	**1,563.5044**	**0.0770**		**1,565.4286**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**		**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

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	0.0857	2.7707	0.7496	7.1400e-003	0.1856	5.8500e-003	0.1914	0.0534	5.5900e-003	0.0590		763.7840	763.7840	0.0519		765.0812
Worker	0.3413	0.2218	2.5150	7.7100e-003	0.8272	6.1200e-003	0.8333	0.2194	5.6400e-003	0.2250		768.2319	768.2319	0.0207		768.7484
Total	**0.4270**	**2.9925**	**3.2646**	**0.0149**	**1.0127**	**0.0120**	**1.0247**	**0.2728**	**0.0112**	**0.2840**		**1,532.0158**	**1,532.0158**	**0.0726**		**1,533.8296**

3.4 Building Construction - 2021

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.9009**	**17.4321**	**16.5752**	**0.0269**		**0.9586**	**0.9586**		**0.9013**	**0.9013**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

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	0.0857	2.7707	0.7496	7.1400e-003	0.1856	5.8500e-003	0.1914	0.0534	5.5900e-003	0.0590		763.7840	763.7840	0.0519		765.0812
Worker	0.3413	0.2218	2.5150	7.7100e-003	0.8272	6.1200e-003	0.8333	0.2194	5.6400e-003	0.2250		768.2319	768.2319	0.0207		768.7484
Total	**0.4270**	**2.9925**	**3.2646**	**0.0149**	**1.0127**	**0.0120**	**1.0247**	**0.2728**	**0.0112**	**0.2840**		**1,532.0158**	**1,532.0158**	**0.0726**		**1,533.8296**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

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	0.0805	2.6298	0.7100	7.0700e-003	0.1856	5.0900e-003	0.1907	0.0534	4.8700e-003	0.0583		756.9641	756.9641	0.0501		758.2158
Worker	0.3210	0.2004	2.3217	7.4300e-003	0.8272	5.9500e-003	0.8331	0.2194	5.4800e-003	0.2248		740.7243	740.7243	0.0187		741.1909
Total	**0.4014**	**2.8302**	**3.0316**	**0.0145**	**1.0127**	**0.0110**	**1.0238**	**0.2728**	**0.0104**	**0.2831**		**1,497.6885**	**1,497.6885**	**0.0687**		**1,499.4067**

3.4 Building Construction - 2022

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

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	0.0805	2.6298	0.7100	7.0700e-003	0.1856	5.0900e-003	0.1907	0.0534	4.8700e-003	0.0583		756.9641	756.9641	0.0501		758.2158
Worker	0.3210	0.2004	2.3217	7.4300e-003	0.8272	5.9500e-003	0.8331	0.2194	5.4800e-003	0.2248		740.7243	740.7243	0.0187		741.1909
Total	**0.4014**	**2.8302**	**3.0316**	**0.0145**	**1.0127**	**0.0110**	**1.0238**	**0.2728**	**0.0104**	**0.2831**		**1,497.6885**	**1,497.6885**	**0.0687**		**1,499.4067**

3.5 Asphalt Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.6481	37.4332	26.0487	0.0446		1.8874	1.8874		1.7381	1.7381		4,294.5198	4,294.5198	1.3723		4,328.8272
Paving	0.0821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.7301**	**37.4332**	**26.0487**	**0.0446**		**1.8874**	**1.8874**		**1.7381**	**1.7381**		**4,294.5198**	**4,294.5198**	**1.3723**		**4,328.8272**

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	0.0857	2.7707	0.7496	7.1400e-003	0.3178	5.8500e-003	0.3237	0.0859	5.5900e-003	0.0915		763.7840	763.7840	0.0519		765.0812
Worker	0.2306	0.1499	1.6993	5.2100e-003	1.0448	4.1400e-003	1.0489	0.2675	3.8100e-003	0.2713		519.0756	519.0756	0.0140		519.4246
Total	**0.3163**	**2.9206**	**2.4489**	**0.0124**	**1.3626**	**9.9900e-003**	**1.3726**	**0.3534**	**9.4000e-003**	**0.3628**		**1,282.8596**	**1,282.8596**	**0.0659**		**1,284.5058**

3.5 Asphalt Paving - 2021

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	3.6481	37.4332	26.0487	0.0446		1.8874	1.8874		1.7381	1.7381	0.0000	4,294.5198	4,294.5198	1.3723		4,328.8271
Paving	0.0821					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**3.7301**	**37.4332**	**26.0487**	**0.0446**		**1.8874**	**1.8874**		**1.7381**	**1.7381**	**0.0000**	**4,294.5198**	**4,294.5198**	**1.3723**		**4,328.8271**

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	0.0857	2.7707	0.7496	7.1400e-003	0.3178	5.8500e-003	0.3237	0.0859	5.5900e-003	0.0915		763.7840	763.7840	0.0519		765.0812
Worker	0.2306	0.1499	1.6993	5.2100e-003	1.0448	4.1400e-003	1.0489	0.2675	3.8100e-003	0.2713		519.0756	519.0756	0.0140		519.4246
Total	**0.3163**	**2.9206**	**2.4489**	**0.0124**	**1.3626**	**9.9900e-003**	**1.3726**	**0.3534**	**9.4000e-003**	**0.3628**		**1,282.8596**	**1,282.8596**	**0.0659**		**1,284.5058**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.8443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**12.0632**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

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	0.0692	0.0450	0.5098	1.5600e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		155.7227	155.7227	4.1900e-003		155.8274
Total	**0.0692**	**0.0450**	**0.5098**	**1.5600e-003**	**0.1677**	**1.2400e-003**	**0.1689**	**0.0445**	**1.1400e-003**	**0.0456**		**155.7227**	**155.7227**	**4.1900e-003**		**155.8274**

3.6 Architectural Coating - 2021

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	11.8443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**12.0632**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

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	0.0692	0.0450	0.5098	1.5600e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		155.7227	155.7227	4.1900e-003		155.8274
Total	**0.0692**	**0.0450**	**0.5098**	**1.5600e-003**	**0.1677**	**1.2400e-003**	**0.1689**	**0.0445**	**1.1400e-003**	**0.0456**		**155.7227**	**155.7227**	**4.1900e-003**		**155.8274**

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.8443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**12.0488**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
Total	**0.0651**	**0.0406**	**0.4706**	**1.5100e-003**	**0.1677**	**1.2100e-003**	**0.1689**	**0.0445**	**1.1100e-003**	**0.0456**		**150.1468**	**150.1468**	**3.7800e-003**		**150.2414**

3.6 Architectural Coating - 2022

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	11.8443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**12.0488**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
Total	**0.0651**	**0.0406**	**0.4706**	**1.5100e-003**	**0.1677**	**1.2100e-003**	**0.1689**	**0.0445**	**1.1100e-003**	**0.0456**		**150.1468**	**150.1468**	**3.7800e-003**		**150.2414**

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	1.0371	4.8046	15.1376	0.0616	5.6513	0.0446	5.6959	1.5118	0.0415	1.5533		6,278.3058	6,278.3058	0.2813		6,285.3379
Unmitigated	1.0371	4.8046	15.1376	0.0616	5.6513	0.0446	5.6959	1.5118	0.0415	1.5533		6,278.3058	6,278.3058	0.2813		6,285.3379

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	622.59	211.07	86.46	2,080,764	2,080,764
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	622.59	211.07	86.46	2,080,764	2,080,764

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Non-Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869

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	0.0148	0.1349	0.1133	8.1000e-004		0.0103	0.0103		0.0103	0.0103		161.9081	161.9081	3.1000e-003	2.9700e-003	162.8703
NaturalGas Unmitigated	0.0148	0.1349	0.1133	8.1000e-004		0.0103	0.0103		0.0103	0.0103		161.9081	161.9081	3.1000e-003	2.9700e-003	162.8703

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	1376.22	0.0148	0.1349	0.1133	8.1000e-004		0.0103	0.0103		0.0103	0.0103		161.9081	161.9081	3.1000e-003	2.9700e-003	162.8703
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0148**	**0.1349**	**0.1133**	**8.1000e-004**		**0.0103**	**0.0103**		**0.0103**	**0.0103**		**161.9081**	**161.9081**	**3.1000e-003**	**2.9700e-003**	**162.8703**

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	1.37622	0.0148	0.1349	0.1133	8.1000e-004		0.0103	0.0103		0.0103	0.0103		161.9081	161.9081	3.1000e-003	2.9700e-003	162.8703
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0148**	**0.1349**	**0.1133**	**8.1000e-004**		**0.0103**	**0.0103**		**0.0103**	**0.0103**		**161.9081**	**161.9081**	**3.1000e-003**	**2.9700e-003**	**162.8703**

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	1.1353	1.6000e-004	0.0179	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0409
Unmitigated	1.1353	1.6000e-004	0.0179	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0409

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	0.1323					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6600e-003	1.6000e-004	0.0179	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0409
Total	**1.1353**	**1.6000e-004**	**0.0179**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0409**

6.2 Area by SubCategory

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	0.1323					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6600e-003	1.6000e-004	0.0179	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0384	0.0384	1.0000e-004		0.0409
Total	**1.1353**	**1.6000e-004**	**0.0179**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**		**0.0384**	**0.0384**	**1.0000e-004**		**0.0409**

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

PHASE 3 WINTER OUTPUT

Noho High School

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	123.02	1000sqft	2.82	123,020.00	0
High School	56.65	1000sqft	1.30	56,650.00	0
Other Asphalt Surfaces	91.49	1000sqft	2.10	91,490.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	12			**Operational Year**	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment - g

Off-road Equipment -

Grading - g

Demolition -

Architectural Coating - g

Construction Off-road Equipment Mitigation -

Mobile Commute Mitigation -

Off-road Equipment - g

Off-road Equipment - g

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	230.00	130.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	PhaseEndDate	3/22/2023	11/29/2022
tblConstructionPhase	PhaseEndDate	1/25/2023	11/29/2022
tblConstructionPhase	PhaseEndDate	2/23/2022	3/30/2022
tblConstructionPhase	PhaseEndDate	2/22/2023	11/29/2022
tblConstructionPhase	PhaseEndDate	3/9/2022	5/31/2022
tblConstructionPhase	PhaseStartDate	2/23/2023	11/16/2022

tblConstructionPhase	PhaseStartDate	3/10/2022	6/1/2022
tblConstructionPhase	PhaseStartDate	1/26/2023	11/16/2022
tblConstructionPhase	PhaseStartDate	2/24/2022	3/31/2022
tblGrading	AcresOfGrading	22.00	1.20
tblGrading	MaterialExported	0.00	2,061.00
tblOffRoadEquipment	HorsePower	85.00	81.00
tblOffRoadEquipment	HorsePower	97.00	247.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.78	0.73
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.40
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType	Air Compressors	Excavators
tblOffRoadEquipment	OffRoadEquipmentType	Rollers	Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType	Concrete/Industrial Saws	Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Tractors/Loaders/Backhoes

tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblTripsAndVMT	WorkerTripNumber	18.00	13.00
tblTripsAndVMT	WorkerTripNumber	25.00	18.00

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	6.7196	50.9635	56.2964	0.1097	6.3599	2.3681	7.3808	3.3956	2.1969	4.3357	0.0000	10,707.5425	10,707.5425	2.4557	0.0000	10,768.9350
Maximum	**6.7196**	**50.9635**	**56.2964**	**0.1097**	**6.3599**	**2.3681**	**7.3808**	**3.3956**	**2.1969**	**4.3357**	**0.0000**	**10,707.5425**	**10,707.5425**	**2.4557**	**0.0000**	**10,768.9350**

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	6.7196	50.9635	56.2964	0.1097	3.0290	2.3681	4.8214	1.5728	2.1969	2.8471	0.0000	10,707.5425	10,707.5425	2.4557	0.0000	10,768.9350
Maximum	**6.7196**	**50.9635**	**56.2964**	**0.1097**	**3.0290**	**2.3681**	**4.8214**	**1.5728**	**2.1969**	**2.8471**	**0.0000**	**10,707.5425**	**10,707.5425**	**2.4557**	**0.0000**	**10,768.9350**

	ROG	NOx	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**	**52.37**	**0.00**	**34.68**	**53.68**	**0.00**	**34.33**	**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	1.3604	2.5000e-004	0.0277	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0593	0.0593	1.6000e-004		0.0632
Energy	0.0174	0.1583	0.1329	9.5000e-004		0.0120	0.0120		0.0120	0.0120		189.8985	189.8985	3.6400e-003	3.4800e-003	191.0269
Mobile	1.2163	5.6352	17.7546	0.0723	6.6282	0.0523	6.6805	1.7732	0.0486	1.8218		7,363.6858	7,363.6858	0.3299		7,371.9336
Total	**2.5942**	**5.7937**	**17.9152**	**0.0732**	**6.6282**	**0.0644**	**6.6927**	**1.7732**	**0.0608**	**1.8340**		**7,553.6436**	**7,553.6436**	**0.3337**	**3.4800e-003**	**7,563.0238**

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	1.3604	2.5000e-004	0.0277	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0593	0.0593	1.6000e-004		0.0632
Energy	0.0174	0.1583	0.1329	9.5000e-004		0.0120	0.0120		0.0120	0.0120		189.8985	189.8985	3.6400e-003	3.4800e-003	191.0269
Mobile	1.2163	5.6352	17.7546	0.0723	6.6282	0.0523	6.6805	1.7732	0.0486	1.8218		7,363.6858	7,363.6858	0.3299		7,371.9336
Total	**2.5942**	**5.7937**	**17.9152**	**0.0732**	**6.6282**	**0.0644**	**6.6927**	**1.7732**	**0.0608**	**1.8340**		**7,553.6436**	**7,553.6436**	**0.3337**	**3.4800e-003**	**7,563.0238**

	ROG	NOx	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	1/27/2022	3/30/2022	5	45	
2	Grading	Grading	3/31/2022	5/31/2022	5	44	
3	Building Construction	Building Construction	6/1/2022	11/29/2022	5	130	
4	Asphalt Paving	Paving	11/16/2022	11/29/2022	5	10	
5	Concrete Paving	Paving	11/16/2022	11/29/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.2

Acres of Paving: 4.92

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Concrete Paving	Pavers	1	8.00	130	0.42
Concrete Paving	Excavators	1	8.00	158	0.38
Concrete Paving	Rollers	1	8.00	80	0.38

Concrete Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Asphalt Paving	Paving Equipment	2	8.00	132	0.36
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Skid Steer Loaders	2	8.00	65	0.37
Demolition	Crushing/Proc. Equipment	1	6.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Air Compressors	1	8.00	78	0.48
Asphalt Paving	Pavers	2	8.00	130	0.42
Building Construction	Forklifts	3	8.00	89	0.20
Grading	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Asphalt Paving	Rollers	2	8.00	80	0.38
Grading	Plate Compactors	1	8.00	8	0.43
Grading	Rollers	1	8.00	80	0.38
Demolition	Tractors/Loaders/Backhoes	1	6.00	247	0.40
Asphalt Paving	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Concrete Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Concrete Paving	Paving Equipment	2	8.00	132	0.36
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Excavators	1	8.00	158	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Concrete Paving	7	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	10	18.00	0.00	230.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	114.00	44.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	258.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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					1.1038	0.0000	1.1038	0.1671	0.0000	0.1671			0.0000			0.0000
Off-Road	3.7418	34.6227	27.0569	0.0609		1.6032	1.6032		1.5054	1.5054		5,865.4557	5,865.4557	1.5259		5,903.6032
Total	**3.7418**	**34.6227**	**27.0569**	**0.0609**	**1.1038**	**1.6032**	**2.7071**	**0.1671**	**1.5054**	**1.6725**		**5,865.4557**	**5,865.4557**	**1.5259**		**5,903.6032**

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	0.0379	1.2406	0.3079	3.8000e-003	0.0893	3.6300e-003	0.0929	0.0245	3.4700e-003	0.0279		413.5288	413.5288	0.0306		414.2940
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	0.0781	0.0487	0.5647	1.8100e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		180.1762	180.1762	4.5400e-003		180.2897
Total	**0.1160**	**1.2894**	**0.8726**	**5.6100e-003**	**0.2905**	**5.0800e-003**	**0.2955**	**0.0778**	**4.8000e-003**	**0.0826**		**593.7050**	**593.7050**	**0.0352**		**594.5837**

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					0.4967	0.0000	0.4967	0.0752	0.0000	0.0752			0.0000			0.0000
Off-Road	3.7418	34.6227	27.0569	0.0609		1.6032	1.6032		1.5054	1.5054	0.0000	5,865.4557	5,865.4557	1.5259		5,903.6032
Total	**3.7418**	**34.6227**	**27.0569**	**0.0609**	**0.4967**	**1.6032**	**2.1000**	**0.0752**	**1.5054**	**1.5806**	**0.0000**	**5,865.4557**	**5,865.4557**	**1.5259**		**5,903.6032**

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	0.0379	1.2406	0.3079	3.8000e-003	0.0893	3.6300e-003	0.0929	0.0245	3.4700e-003	0.0279		413.5288	413.5288	0.0306		414.2940
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	0.0781	0.0487	0.5647	1.8100e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		180.1762	180.1762	4.5400e-003		180.2897
Total	**0.1160**	**1.2894**	**0.8726**	**5.6100e-003**	**0.2905**	**5.0800e-003**	**0.2955**	**0.0778**	**4.8000e-003**	**0.0826**		**593.7050**	**593.7050**	**0.0352**		**594.5837**

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					6.0563	0.0000	6.0563	3.3142	0.0000	3.3142			0.0000			0.0000
Off-Road	2.3546	23.4930	16.2197	0.0398		1.0153	1.0153		0.9348	0.9348		3,840.3222	3,840.3222	1.2345		3,871.1839
Total	**2.3546**	**23.4930**	**16.2197**	**0.0398**	**6.0563**	**1.0153**	**7.0716**	**3.3142**	**0.9348**	**4.2490**		**3,840.3222**	**3,840.3222**	**1.2345**		**3,871.1839**

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	0.0435	1.4233	0.3532	4.3600e-003	0.1024	4.1600e-003	0.1066	0.0281	3.9800e-003	0.0320		474.4140	474.4140	0.0351		475.2918
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	0.0781	0.0487	0.5647	1.8100e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		180.1762	180.1762	4.5400e-003		180.2897
Total	**0.1215**	**1.4720**	**0.9179**	**6.1700e-003**	**0.3036**	**5.6100e-003**	**0.3092**	**0.0814**	**5.3100e-003**	**0.0867**		**654.5902**	**654.5902**	**0.0397**		**655.5815**

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					2.7253	0.0000	2.7253	1.4914	0.0000	1.4914			0.0000			0.0000
Off-Road	2.3546	23.4930	16.2197	0.0398		1.0153	1.0153		0.9348	0.9348	0.0000	3,840.3222	3,840.3222	1.2345		3,871.1839
Total	**2.3546**	**23.4930**	**16.2197**	**0.0398**	**2.7253**	**1.0153**	**3.7406**	**1.4914**	**0.9348**	**2.4262**	**0.0000**	**3,840.3222**	**3,840.3222**	**1.2345**		**3,871.1839**

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	0.0435	1.4233	0.3532	4.3600e-003	0.1024	4.1600e-003	0.1066	0.0281	3.9800e-003	0.0320		474.4140	474.4140	0.0351		475.2918
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	0.0781	0.0487	0.5647	1.8100e-003	0.2012	1.4500e-003	0.2026	0.0534	1.3300e-003	0.0547		180.1762	180.1762	4.5400e-003		180.2897
Total	**0.1215**	**1.4720**	**0.9179**	**6.1700e-003**	**0.3036**	**5.6100e-003**	**0.3092**	**0.0814**	**5.3100e-003**	**0.0867**		**654.5902**	**654.5902**	**0.0397**		**655.5815**

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.4 Building Construction - 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	0.0000	0.0000	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	0.1221	3.9901	1.0772	0.0107	0.2816	7.7300e-003	0.2893	0.0811	7.3900e-003	0.0884		1,148.4973	1,148.4973	0.0760		1,150.3964
Worker	0.4945	0.3087	3.5766	0.0115	1.2743	9.1600e-003	1.2834	0.3379	8.4400e-003	0.3464		1,141.1159	1,141.1159	0.0288		1,141.8346
Total	**0.6166**	**4.2988**	**4.6538**	**0.0222**	**1.5558**	**0.0169**	**1.5727**	**0.4190**	**0.0158**	**0.4348**		**2,289.6132**	**2,289.6132**	**0.1047**		**2,292.2310**

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.4 Building Construction - 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	0.0000	0.0000	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	0.1221	3.9901	1.0772	0.0107	0.2816	7.7300e-003	0.2893	0.0811	7.3900e-003	0.0884		1,148.4973	1,148.4973	0.0760		1,150.3964
Worker	0.4945	0.3087	3.5766	0.0115	1.2743	9.1600e-003	1.2834	0.3379	8.4400e-003	0.3464		1,141.1159	1,141.1159	0.0288		1,141.8346
Total	**0.6166**	**4.2988**	**4.6538**	**0.0222**	**1.5558**	**0.0169**	**1.5727**	**0.4190**	**0.0158**	**0.4348**		**2,289.6132**	**2,289.6132**	**0.1047**		**2,292.2310**

3.5 Asphalt Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9301	19.8152	18.1204	0.0312		0.9804	0.9804		0.9019	0.9019		3,024.9780	3,024.9780	0.9783		3,049.4365
Paving	0.5502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4803**	**19.8152**	**18.1204**	**0.0312**		**0.9804**	**0.9804**		**0.9019**	**0.9019**		**3,024.9780**	**3,024.9780**	**0.9783**		**3,049.4365**

3.5 Asphalt Paving - 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	0.0000	0.0000	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	0.1562	0.0975	1.1295	3.6200e-003	0.7522	2.8900e-003	0.7551	0.1926	2.6600e-003	0.1953		360.3524	360.3524	9.0800e-003		360.5794
Total	**0.1562**	**0.0975**	**1.1295**	**3.6200e-003**	**0.7522**	**2.8900e-003**	**0.7551**	**0.1926**	**2.6600e-003**	**0.1953**		**360.3524**	**360.3524**	**9.0800e-003**		**360.5794**

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	1.9301	19.8152	18.1204	0.0312		0.9804	0.9804		0.9019	0.9019	0.0000	3,024.9780	3,024.9780	0.9783		3,049.4365
Paving	0.5502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.4803**	**19.8152**	**18.1204**	**0.0312**		**0.9804**	**0.9804**		**0.9019**	**0.9019**	**0.0000**	**3,024.9780**	**3,024.9780**	**0.9783**		**3,049.4365**

3.5 Asphalt Paving - 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	0.0000	0.0000	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	0.1562	0.0975	1.1295	3.6200e-003	0.7522	2.8900e-003	0.7551	0.1926	2.6600e-003	0.1953		360.3524	360.3524	9.0800e-003		360.5794
Total	**0.1562**	**0.0975**	**1.1295**	**3.6200e-003**	**0.7522**	**2.8900e-003**	**0.7551**	**0.1926**	**2.6600e-003**	**0.1953**		**360.3524**	**360.3524**	**9.0800e-003**		**360.5794**

3.6 Concrete Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1538	11.1012	15.6215	0.0245		0.5579	0.5579		0.5144	0.5144		2,348.1382	2,348.1382	0.7483		2,366.8467
Paving	0.5502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7040**	**11.1012**	**15.6215**	**0.0245**		**0.5579**	**0.5579**		**0.5144**	**0.5144**		**2,348.1382**	**2,348.1382**	**0.7483**		**2,366.8467**

3.6 Concrete Paving - 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	0.0000	0.0000	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	0.0564	0.0352	0.4079	1.3100e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		130.1273	130.1273	3.2800e-003		130.2092
Total	**0.0564**	**0.0352**	**0.4079**	**1.3100e-003**	**0.1453**	**1.0400e-003**	**0.1464**	**0.0385**	**9.6000e-004**	**0.0395**		**130.1273**	**130.1273**	**3.2800e-003**		**130.2092**

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	1.1538	11.1012	15.6215	0.0245		0.5579	0.5579		0.5144	0.5144	0.0000	2,348.1382	2,348.1382	0.7483		2,366.8467
Paving	0.5502					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.7040**	**11.1012**	**15.6215**	**0.0245**		**0.5579**	**0.5579**		**0.5144**	**0.5144**	**0.0000**	**2,348.1382**	**2,348.1382**	**0.7483**		**2,366.8467**

3.6 Concrete Paving - 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	0.0000	0.0000	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	0.0564	0.0352	0.4079	1.3100e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		130.1273	130.1273	3.2800e-003		130.2092
Total	**0.0564**	**0.0352**	**0.4079**	**1.3100e-003**	**0.1453**	**1.0400e-003**	**0.1464**	**0.0385**	**9.6000e-004**	**0.0395**		**130.1273**	**130.1273**	**3.2800e-003**		**130.2092**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Implement Trip Reduction Program

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2163	5.6352	17.7546	0.0723	6.6282	0.0523	6.6805	1.7732	0.0486	1.8218		7,363.6858	7,363.6858	0.3299		7,371.9336
Unmitigated	1.2163	5.6352	17.7546	0.0723	6.6282	0.0523	6.6805	1.7732	0.0486	1.8218		7,363.6858	7,363.6858	0.3299		7,371.9336

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	730.22	247.56	101.40	2,440,482	2,440,482
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	730.22	247.56	101.40	2,440,482	2,440,482

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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Non-Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869
Other Asphalt Surfaces	0.552712	0.042774	0.202769	0.116939	0.015078	0.005847	0.021692	0.031910	0.002110	0.001769	0.004822	0.000710	0.000869

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	0.0174	0.1583	0.1329	9.5000e-004		0.0120	0.0120		0.0120	0.0120		189.8985	189.8985	3.6400e-003	3.4800e-003	191.0269
NaturalGas Unmitigated	0.0174	0.1583	0.1329	9.5000e-004		0.0120	0.0120		0.0120	0.0120		189.8985	189.8985	3.6400e-003	3.4800e-003	191.0269

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	1614.14	0.0174	0.1583	0.1329	9.5000e-004		0.0120	0.0120		0.0120	0.0120		189.8985	189.8985	3.6400e-003	3.4800e-003	191.0269
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0174**	**0.1583**	**0.1329**	**9.5000e-004**		**0.0120**	**0.0120**		**0.0120**	**0.0120**		**189.8985**	**189.8985**	**3.6400e-003**	**3.4800e-003**	**191.0269**

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	1.61414	0.0174	0.1583	0.1329	9.5000e-004		0.0120	0.0120		0.0120	0.0120		189.8985	189.8985	3.6400e-003	3.4800e-003	191.0269
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0174**	**0.1583**	**0.1329**	**9.5000e-004**		**0.0120**	**0.0120**		**0.0120**	**0.0120**		**189.8985**	**189.8985**	**3.6400e-003**	**3.4800e-003**	**191.0269**

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	1.3604	2.5000e-004	0.0277	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0593	0.0593	1.6000e-004		0.0632
Unmitigated	1.3604	2.5000e-004	0.0277	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0593	0.0593	1.6000e-004		0.0632

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	0.1602					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1977					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5600e-003	2.5000e-004	0.0277	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0593	0.0593	1.6000e-004		0.0632
Total	**1.3604**	**2.5000e-004**	**0.0277**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0593**	**0.0593**	**1.6000e-004**		**0.0632**

6.2 Area by SubCategory

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	0.1602					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1977					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.5600e-003	2.5000e-004	0.0277	0.0000		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		0.0593	0.0593	1.6000e-004		0.0632
Total	**1.3604**	**2.5000e-004**	**0.0277**	**0.0000**		**1.0000e-004**	**1.0000e-004**		**1.0000e-004**	**1.0000e-004**		**0.0593**	**0.0593**	**1.6000e-004**		**0.0632**

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

BIOLOGICAL RESOURCES

B-1 - CDFW - California Natural Diversity Database (CNDDB) Query

B-2 - USFWS - Information for Planning and Conservation (IpaC) Query

B-3 - CNPS - Inventory of Rare and Endangered Plants Query (8th Edition)

B-4 - North Hollywood High School Tree Inventory (2016)

B-1 - CDFW - California Natural Diversity Database (CNDDB) Query

CALIFORNIA DEPARTMENT OF FISH and WILDLIFE **RareFind**

Query Summary:
BIOS Selection

Print Close

CNDDB Element Query Results

Scientific Name	Common Name	Taxonomic Group	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank	Other Status	Habitats
Aimophila ruficeps canescens	southern California rufous-crowned sparrow	Birds	ABPBX91091	218	1	None	None	G5T3	S3	null	CDFW_WL-Watch List	Chaparral, Coastal scrub
Anniella pulchra pulchra	silvery legless lizard	Reptiles	ARACC01012	101	2	None	None	G3G4T3T4Q	S3	null	CDFW_SSC-Species of Special Concern, USFS_S-Sensitive	Chaparral, Coastal dunes, Coastal scrub
Antrozous pallidus	pallid bat	Mammals	AMACC10010	407	3	None	None	G5	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive, WBWG_H-High Priority	Chaparral, Coastal scrub, Desert wash, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Riparian woodland, Sonoran desert scrub, Upper montane coniferous forest, Valley & foothill grassland
Arenaria paludicola	marsh sandwort	Dicots	PDCAR040L0	16	1	Endangered	Endangered	G1	S1	1B.1	SB_SBBG-Santa Barbara Botanic Garden	Freshwater marsh, Marsh & swamp, Wetland
Arizona elegans occidentalis	California glossy snake	Reptiles	ARADB01017	260	1	None	None	G5T2	S2	null	CDFW_SSC-Species of Special Concern	null
Aspidoscelis tigris stejnegeri	coastal whiptail	Reptiles	ARACJ02143	128	2	None	None	G5T5	S3	null	CDFW_SSC-Species of Special Concern	null
Astragalus brauntonii	Braunton's milk-vetch	Dicots	PDFAB0F1G0	42	2	Endangered	None	G2	S2	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden	Chaparral, Coastal scrub, Limestone, Valley & foothill grassland
Athene cunicularia	burrowing owl	Birds	ABNSB10010	1937	1	None	None	G4	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern	Coastal prairie, Coastal scrub, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, Valley & foothill grassland
Atriplex parishii	Parish's brittlescale	Dicots	PDCHE041D0	16	1	None	None	G1G2	S1	1B.1	USFS_S-Sensitive	Alkali playa, Chenopod scrub, Meadow & seep, Vernal pool, Wetland
Atriplex serenana var. davidsonii	Davidson's saltscale	Dicots	PDCHE041T1	28	2	None	None	G5T1	S1	1B.2	null	Coastal bluff scrub, Coastal scrub
Berberis nevinii	Nevin's barberry	Dicots	PDBER060A0	31	5	Endangered	Endangered	G1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden,	Chaparral, Cismontane woodland,

											SB_SBBG-Santa Barbara Botanic Garden	Coastal scrub, Riparian scrub
Bombus crotchii	Crotch bumble bee	Insects	IIHYM24480	233	6	None	None	G3G4	S1S2	null	null	null
Buteo swainsoni	Swainson's hawk	Birds	ABNKC19070	2427	3	None	Threatened	G5	S3	null	BLM_S-Sensitive, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern	Great Basin grassland, Riparian forest, Riparian woodland, Valley & foothill grassland
California Walnut Woodland	California Walnut Woodland	Woodland	CTT71210CA	76	6	None	None	G2	S2.1	null	null	Cismontane woodland
California macrophylla	round-leaved filaree	Dicots	PDGER01070	162	1	None	None	G3?	S3?	1B.2	BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden	Cismontane woodland, Valley & foothill grassland
Calochortus clavatus var. gracilis	slender mariposa-lily	Monocots	PMLIL0D096	105	2	None	None	G4T2T3	S2S3	1B.2	BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive	Chaparral, Coastal scrub, Valley & foothill grassland
Calochortus plummerae	Plummer's mariposa-lily	Monocots	PMLIL0D150	230	12	None	None	G4	S4	4.2	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley & foothill grassland
Calystegia felix	lucky morning-glory	Dicots	PDCON040P0	9	2	None	None	GHQ	SH	3.1	null	Meadow & seep, Riparian scrub
Carolella busckana	Busck's gallmoth	Insects	IILEM2X090	4	1	None	None	G1G3	SH	null	null	Coastal dunes, Coastal scrub
Catostomus santaanae	Santa Ana sucker	Fish	AFCJC02190	27	1	Threatened	None	G1	S1	null	AFS_TH-Threatened, IUCN_VU-Vulnerable	Aquatic, South coast flowing waters
Centromadia parryi ssp. australis	southern tarplant	Dicots	PDAST4R0P4	87	3	None	None	G3T2	S2	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Marsh & swamp, Salt marsh, Valley & foothill grassland, Vernal pool, Wetland
Chorizanthe parryi var. fernandina	San Fernando Valley spineflower	Dicots	PDPGN040J1	21	4	Proposed Threatened	Endangered	G2T1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive	Coastal scrub, Valley & foothill grassland
Coccyzus americanus occidentalis	western yellow-billed cuckoo	Birds	ABNRB02022	155	1	Threatened	Endangered	G5T2T3	S1	null	BLM_S-Sensitive, NABCI_RWL-Red Watch List, USFS_S-Sensitive, USFWS_BCC-Birds of Conservation Concern	Riparian forest
Corynorhinus townsendii	Townsend's big-eared bat	Mammals	AMACC08010	625	1	None	None	G3G4	S2	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive, WBWG_H-High Priority	Broadleaved upland forest, Chaparral, Chenopod scrub, Great Basin grassland, Great Basin scrub, Joshua tree woodland, Lower montane coniferous forest, Meadow & seep, Mojavean desert scrub, Riparian

												forest, Riparian woodland, Sonoran desert scrub, Sonoran thorn woodland, Upper montane coniferous forest, Valley & foothill grassland
Danaus plexippus pop. 1	monarch - California overwintering population	Insects	IILEPP2012	378	3	None	None	G4T2T3	S2S3	null	USFS_S-Sensitive	Closed-cone coniferous forest
Dodecahema leptoceras	slender-horned spineflower	Dicots	PDPGN0V010	38	4	Endangered	Endangered	G1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden	Chaparral, Cismontane woodland, Coastal scrub
Dudleya multicaulis	many-stemmed dudleya	Dicots	PDCRA040H0	147	1	None	None	G2	S2	1B.2	BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden, USFS_S-Sensitive	Chaparral, Coastal scrub, Valley & foothill grassland
Empidonax traillii extimus	southwestern willow flycatcher	Birds	ABPAE33043	70	2	Endangered	Endangered	G5T2	S1	null	NABCI_RWL-Red Watch List	Riparian woodland
Emys marmorata	western pond turtle	Reptiles	ARAAD02030	1230	3	None	None	G3G4	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable, USFS_S-Sensitive	Aquatic, Artificial flowing waters, Klamath/North coast flowing waters, Klamath/North coast standing waters, Marsh & swamp, Sacramento/San Joaquin flowing waters, Sacramento/San Joaquin standing waters, South coast flowing waters, South coast standing waters, Wetland
Eumops perotis californicus	western mastiff bat	Mammals	AMACD02011	294	4	None	None	G5T4	S3S4	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, WBWG_H-High Priority	Chaparral, Cismontane woodland, Coastal scrub, Valley & foothill grassland
Falco peregrinus anatum	American peregrine falcon	Birds	ABNKD06071	55	1	Delisted	Delisted	G4T4	S3S4	null	CDF_S-Sensitive, CDFW_FP-Fully Protected, USFWS_BCC-Birds of Conservation Concern	null
Gila orcuttii	arroyo chub	Fish	AFCJB13120	49	1	None	None	G2	S2	null	AFS_VU-Vulnerable, CDFW_SSC-Species of Special Concern, USFS_S-Sensitive	Aquatic, South coast flowing waters
Helianthus nuttallii ssp. parishii	Los Angeles sunflower	Dicots	PDAST4N102	7	1	None	None	G5TH	SH	1A	null	Freshwater marsh, Marsh & swamp, Salt marsh, Wetland
Horkelia cuneata var. puberula	mesa horkelia	Dicots	PDROS0W045	103	7	None	None	G4T1	S1	1B.1	USFS_S-Sensitive	Chaparral, Cismontane woodland, Coastal scrub
Lasionycteris noctivagans	silver-haired bat	Mammals	AMACC02010	138	3	None	None	G5	S3S4	null	IUCN_LC-Least Concern, WBWG_M-Medium Priority	Lower montane coniferous forest, Oldgrowth, Riparian forest
Lasiurus cinereus	hoary bat	Mammals	AMACC05030	235	9	None	None	G5	S4	null	IUCN_LC-Least Concern, WBWG_M-	Broadleaved upland forest, Cismontane woodland, Lower

											Medium Priority	montane coniferous forest, North coast coniferous forest
Lasiurus xanthinus	western yellow bat	Mammals	AMACC05070	58	1	None	None	G5	S3	null	CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, WBWG_H-High Priority	Desert wash
Lasthenia glabrata ssp. coulteri	Coulter's goldfields	Dicots	PDAST5L0A1	97	1	None	None	G4T2	S2	1B.1	BLM_S-Sensitive, SB_RSABG-Rancho Santa Ana Botanic Garden	Alkali playa, Marsh & swamp, Salt marsh, Vernal pool, Wetland
Lepus californicus bennettii	San Diego black-tailed jackrabbit	Mammals	AMAEB03051	102	1	None	None	G5T3T4	S3S4	null	CDFW_SSC-Species of Special Concern	Coastal scrub
Malacothamnus davidsonii	Davidson's bush-mallow	Dicots	PDMAL0Q040	67	20	None	None	G2	S2	1B.2	null	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland
Nama stenocarpa	mud nama	Dicots	PDHYD0A0H0	22	1	None	None	G4G5	S1S2	2B.2	null	Marsh & swamp, Wetland
Nasturtium gambelii	Gambel's water cress	Dicots	PDBRA270V0	12	1	Endangered	Threatened	G1	S1	1B.1	SB_RSABG-Rancho Santa Ana Botanic Garden, SB_SBBG-Santa Barbara Botanic Garden	Brackish marsh, Freshwater marsh, Marsh & swamp, Wetland
Neotoma lepida intermedia	San Diego desert woodrat	Mammals	AMAFF08041	116	2	None	None	G5T3T4	S3S4	null	CDFW_SSC-Species of Special Concern	Coastal scrub
Nyctinomops macrotis	big free-tailed bat	Mammals	AMACD04020	32	1	None	None	G5	S3	null	CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, WBWG_MH-Medium-High Priority	null
Onychomys torridus ramona	southern grasshopper mouse	Mammals	AMAFF06022	27	1	None	None	G5T3	S3	null	CDFW_SSC-Species of Special Concern	Chenopod scrub
Perognathus longimembris brevinasus	Los Angeles pocket mouse	Mammals	AMAFD01041	51	1	None	None	G5T1T2	S1S2	null	CDFW_SSC-Species of Special Concern	Coastal scrub
Phrynosoma blainvillii	coast horned lizard	Reptiles	ARACF12100	755	6	None	None	G3G4	S3S4	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern	Chaparral, Cismontane woodland, Coastal bluff scrub, Coastal scrub, Desert wash, Pinon & juniper woodlands, Riparian scrub, Riparian woodland, Valley & foothill grassland
Polioptila californica californica	coastal California gnatcatcher	Birds	ABPBJ08081	821	5	Threatened	None	G4G5T2Q	S2	null	CDFW_SSC-Species of Special Concern, NABCI_YWL-Yellow Watch List	Coastal bluff scrub, Coastal scrub
Pseudognaphalium leucocephalum	white rabbit-tobacco	Dicots	PDAST440C0	62	3	None	None	G4	S2	2B.2	null	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland

Rana muscosa	southern mountain yellow-legged frog	Amphibians	AAABH01330	186	1	Endangered	Endangered	G1	S1	null	CDFW_WL-Watch List, IUCN_EN-Endangered, USFS_S-Sensitive	Aquatic
Rhinichthys osculus ssp. 3	Santa Ana speckled dace	Fish	AFCJB3705K	14	2	None	None	G5T1	S1	null	AFS_TH-Threatened, CDFW_SSC-Species of Special Concern, USFS_S-Sensitive	Aquatic, South coast flowing waters
Ribes divaricatum var. parishii	Parish's gooseberry	Dicots	PDGRO020F3	5	1	None	None	G4TX	SX	1A	null	Riparian woodland
Riparia riparia	bank swallow	Birds	ABPAU08010	297	1	None	Threatened	G5	S2	null	BLM_S-Sensitive, IUCN_LC-Least Concern	Riparian scrub, Riparian woodland
Riversidian Alluvial Fan Sage Scrub	Riversidian Alluvial Fan Sage Scrub	Scrub	CTT32720CA	30	5	None	None	G1	S1.1	null	null	Coastal scrub
Sidalcea neomexicana	Salt Spring checkerbloom	Dicots	PDMAL110J0	30	1	None	None	G4	S2	2B.2	USFS_S-Sensitive	Alkali playa, Chaparral, Coastal scrub, Lower montane coniferous forest, Mojavean desert scrub, Wetland
Socalchemmis gertschi	Gertsch's socalchemmis spider	Arachnids	ILARAU7010	3	1	None	None	G1	S1	null	null	Coastal scrub
Southern California Arroyo Chub/Santa Ana Sucker Stream	Southern California Arroyo Chub/Santa Ana Sucker Stream	Inland Waters	CARE2330CA	4	1	None	None	GNR	SNR	null	null	null
Southern Coast Live Oak Riparian Forest	Southern Coast Live Oak Riparian Forest	Riparian	CTT61310CA	246	19	None	None	G4	S4	null	null	Riparian forest
Southern Cottonwood Willow Riparian Forest	Southern Cottonwood Willow Riparian Forest	Riparian	CTT61330CA	111	1	None	None	G3	S3.2	null	null	Riparian forest
Southern Mixed Riparian Forest	Southern Mixed Riparian Forest	Riparian	CTT61340CA	14	1	None	None	G2	S2.1	null	null	Riparian forest
Southern Sycamore Alder Riparian Woodland	Southern Sycamore Alder Riparian Woodland	Riparian	CTT62400CA	230	22	None	None	G4	S4	null	null	Riparian woodland
Symphyotrichum defoliatum	San Bernardino aster	Dicots	PDASTE80C0	76	2	None	None	G2	S2	1B.2	BLM_S-Sensitive, USFS_S-Sensitive	Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Marsh & swamp, Meadow & seep, Valley & foothill grassland
Symphyotrichum greatae	Greata's aster	Dicots	PDASTE80U0	56	3	None	None	G2	S2	1B.3	BLM_S-Sensitive	Broadleaved upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Riparian woodland
Taxidea taxus	American badger	Mammals	AMAJF04010	535	1	None	None	G5	S3	null	CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern	Alkali marsh, Alkali playa, Alpine, Alpine dwarf scrub, Bog & fen, Brackish marsh, Broadleaved upland forest, Chaparral, Chenopod scrub, Cismontane woodland, Closed-cone

												coniferous forest, Coastal bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub, Desert dunes, Desert wash, Freshwater marsh, Great Basin grassland, Great Basin scrub, Interior dunes, Ione formation, Joshua tree woodland, Limestone, Lower montane coniferous forest, Marsh & swamp, Meadow & seep, Mojavean desert scrub, Montane dwarf scrub, North coast coniferous forest, Oldgrowth, Pavement plain, Redwood, Riparian forest, Riparian scrub, Riparian woodland, Salt marsh, Sonoran desert scrub, Sonoran thorn woodland, Ultramafic, Upper montane coniferous forest, Upper Sonoran scrub, Valley & foothill grassland
Thamnophis hammondii	two-striped gartersnake	Reptiles	ARADB36160	157	2	None	None	G4	S3S4	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive	Marsh & swamp, Riparian scrub, Riparian woodland, Wetland
Vireo bellii pusillus	least Bell's vireo	Birds	ABPBW01114	478	8	Endangered	Endangered	G5T2	S2	null	IUCN_NT-Near Threatened, NABCI_YWL-Yellow Watch List	Riparian forest, Riparian scrub, Riparian woodland

B-2 - USFWS - Information for Planning and Conservation (IpaC) Query

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

Location

Los Angeles County, California



Local offices

Carlsbad Fish And Wildlife Office

(760) 431-9440
(760) 431-5901

2177 Salk Avenue - Suite 250
Carlsbad, CA 92008-7385

http://www.fws.gov/carlsbad/

Ventura Fish And Wildlife Office

(805) 644-1766
(805) 644-3958

2493 Portola Road, Suite B
Ventura, CA 93003-7726

Not for consultation

Endangered species

This resource list is for informational purposes only and should not be used for planning or analyzing project level impacts.

Section 7 of the Endangered Species Act **requires** Federal agencies to *"request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action"* for any project that is conducted, permitted, funded, or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list either from the Regulatory Review section in IPaC or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by creating a project and making a request from the Regulatory Review section.

Listed species[1] are managed by the Endangered Species Program of the U.S. Fish and Wildlife Service.

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information.

The following species are potentially affected by activities in this location:

Amphibians

NAME	STATUS
Arroyo (=arroyo Southwestern) Toad Anaxyrus californicus There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/3762	Endangered
California Red-legged Frog Rana draytonii There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/2891	Threatened

Birds

NAME	STATUS
California Condor Gymnogyps californianus There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/8193	Endangered
California Least Tern Sterna antillarum browni **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/8104	Endangered
Coastal California Gnatcatcher Polioptila californica californica There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/8178	Threatened
Least Bell's Vireo Vireo bellii pusillus There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/5945	Endangered
Light-footed Clapper Rail Rallus longirostris levipes **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/6035	Endangered
Marbled Murrelet Brachyramphus marmoratus There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/4467	Threatened
Southwestern Willow Flycatcher Empidonax traillii extimus There is a **final** critical habitat designated for this species. Your location overlaps the designated critical habitat. http://ecos.fws.gov/ecp/species/6749	Endangered
Western Snowy Plover Charadrius alexandrinus nivosus There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/8035	Threatened

Crustaceans

NAME	STATUS
Riverside Fairy Shrimp Streptocephalus woottoni There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/8148	Endangered
Vernal Pool Fairy Shrimp Branchinecta lynchi There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/498	Threatened

Not for consultation

Fishes

NAME	STATUS
Santa Ana Sucker Catostomus santaanae There is a **final** critical habitat designated for this species. Your location overlaps the designated critical habitat. http://ecos.fws.gov/ecp/species/3785	Threatened
Tidewater Goby Eucyclogobius newberryi There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/57	Endangered

Flowering Plants

NAME	STATUS
Braunton's Milk-vetch Astragalus brauntonii There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/5674	Endangered
California Orcutt Grass Orcuttia californica **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/4923	Endangered
Coastal Dunes Milk-vetch Astragalus tener var. titi **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/7675	Endangered
Gambel's Watercress Rorippa gambellii **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/4201	Endangered
Lyon's Pentachaeta Pentachaeta lyonii There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/4699	Endangered
Marsh Sandwort Arenaria paludicola **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/2229	Endangered
Nevin's Barberry Berberis nevinii There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/8025	Endangered
Salt Marsh Bird's-beak Cordylanthus maritimus ssp. maritimus **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/6447	Endangered
San Fernando Valley Spineflower Chorizanthe parryi var. fernandina **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/8215	Proposed Threatened
Santa Monica Mountains Dudleyea Dudleya cymosa ssp. ovatifolia **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/2538	Threatened
Slender-horned Spineflower Dodecahema leptoceras **No critical habitat** has been designated for this species. http://ecos.fws.gov/ecp/species/4007	Endangered

Not for consultation

Spreading Navarretia Navarretia fossalis There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/1334	Threatened
Ventura Marsh Milk-vetch Astragalus pycnostachyus var. lanosissimus There is a **final** critical habitat designated for this species. Your location is outside the designated critical habitat. http://ecos.fws.gov/ecp/species/1160	Endangered

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

This location overlaps the critical habitat for the following species:

NAME	TYPE
Santa Ana Sucker Catostomus santaanae http://ecos.fws.gov/ecp/species/3785#crithab	Final designated
Southwestern Willow Flycatcher Empidonax traillii extimus http://ecos.fws.gov/ecp/species/6749#crithab	Final designated

Not for consultation

Migratory birds

Birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any activity that results in the take (to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct) of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service[3]. There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Conservation measures for birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Year-round bird occurrence data http://www.birdscanada.org/birdmon/default/datasummaries.jsp

The migratory birds species listed below are species of particular conservation concern (e.g. Birds of Conservation Concern) that may be potentially affected by activities in this location, not a list of every bird species you may find in this location. Although it is important to try to avoid and minimize impacts to all birds, special attention should be made to avoid and minimize impacts to birds of priority concern. To view available data on other bird species that may occur in your project area, please visit the AKN Histogram Tools and Other Bird Data Resources.

NAME	SEASON(S)
Allen's Hummingbird Selasphorus sasin http://ecos.fws.gov/ecp/species/9637	Breeding
Bald Eagle Haliaeetus leucocephalus http://ecos.fws.gov/ecp/species/1626	Wintering
Bell's Vireo Vireo bellii http://ecos.fws.gov/ecp/species/9507	Breeding

Black Oystercatcher Haematopus bachmani http://ecos.fws.gov/ecp/species/9591	Year-round
Black Skimmer Rynchops niger http://ecos.fws.gov/ecp/species/5234	Year-round
Black-chinned Sparrow Spizella atrogularis http://ecos.fws.gov/ecp/species/9447	Breeding
Brewer's Sparrow Spizella breweri http://ecos.fws.gov/ecp/species/9291	Year-round
Burrowing Owl Athene cunicularia http://ecos.fws.gov/ecp/species/9737	Year-round
Cactus Wren Campylorhynchus brunneicapillus http://ecos.fws.gov/ecp/species/8834	Year-round
California Spotted Owl Strix occidentalis occidentalis http://ecos.fws.gov/ecp/species/7266	Year-round
Calliope Hummingbird Stellula calliope http://ecos.fws.gov/ecp/species/9526	Breeding
Costa's Hummingbird Calypte costae http://ecos.fws.gov/ecp/species/9470	Breeding
Fox Sparrow Passerella iliaca	Wintering
Green-tailed Towhee Pipilo chlorurus http://ecos.fws.gov/ecp/species/9444	Breeding
Lawrence's Goldfinch Carduelis lawrencei http://ecos.fws.gov/ecp/species/9464	Year-round
Least Bittern Ixobrychus exilis http://ecos.fws.gov/ecp/species/6175	Year-round
Lesser Yellowlegs Tringa flavipes http://ecos.fws.gov/ecp/species/9679	Wintering
Lewis's Woodpecker Melanerpes lewis http://ecos.fws.gov/ecp/species/9408	Wintering
Loggerhead Shrike Lanius ludovicianus http://ecos.fws.gov/ecp/species/8833	Year-round
Long-billed Curlew Numenius americanus http://ecos.fws.gov/ecp/species/5511	Wintering
Marbled Godwit Limosa fedoa http://ecos.fws.gov/ecp/species/9481	Wintering
Mountain Plover Charadrius montanus http://ecos.fws.gov/ecp/species/3638	Wintering
Nuttall's Woodpecker Picoides nuttallii http://ecos.fws.gov/ecp/species/9410	Year-round
Oak Titmouse Baeolophus inornatus http://ecos.fws.gov/ecp/species/9656	Year-round

Not for consultation

Olive-sided Flycatcher Contopus cooperi http://ecos.fws.gov/ecp/species/3914	Breeding
Peregrine Falcon Falco peregrinus http://ecos.fws.gov/ecp/species/8831	Wintering
Red Knot Calidris canutus ssp. roselaari http://ecos.fws.gov/ecp/species/8880	Wintering
Red-crowned Parrot Amazona viridigenalis http://ecos.fws.gov/ecp/species/9022	Year-round
Rufous-crowned Sparrow Aimophila ruficeps http://ecos.fws.gov/ecp/species/9718	Year-round
Short-billed Dowitcher Limnodromus griseus http://ecos.fws.gov/ecp/species/9480	Wintering
Short-eared Owl Asio flammeus http://ecos.fws.gov/ecp/species/9295	Wintering
Snowy Plover Charadrius alexandrinus	Breeding
Tricolored Blackbird Agelaius tricolor http://ecos.fws.gov/ecp/species/3910	Year-round
Western Grebe aechmophorus occidentalis http://ecos.fws.gov/ecp/species/6743	Wintering
Whimbrel Numenius phaeopus http://ecos.fws.gov/ecp/species/9483	Wintering
White Headed Woodpecker Picoides albolarvatus http://ecos.fws.gov/ecp/species/9411	Year-round
Williamson's Sapsucker Sphyrapicus thyroideus http://ecos.fws.gov/ecp/species/8832	Wintering
Yellow Warbler dendroica petechia ssp. brewsteri http://ecos.fws.gov/ecp/species/3230	Breeding

Not for consultation

What does IPaC use to generate the list of migratory bird species potentially occurring in my specified location?

Landbirds:

Migratory birds that are displayed on the IPaC species list are based on ranges in the latest edition of the National Geographic Guide, Birds of North America (6th Edition, 2011 by Jon L. Dunn, and Jonathan Alderfer). Although these ranges are coarse in nature, a number of U.S. Fish and Wildlife Service migratory bird biologists agree that these maps are some of the best range maps to date. These ranges were clipped to a specific Bird Conservation Region (BCR) or USFWS Region/Regions, if it was indicated in the 2008 list of Birds of Conservation Concern (BCC) that a species was a BCC species only in a particular Region/Regions. Additional modifications have been made to some ranges based on more local or refined range information and/or information provided by U.S. Fish and Wildlife Service biologists with species expertise. All migratory birds that show in areas on land in IPaC are those that appear in the 2008 Birds of Conservation Concern report.

Atlantic Seabirds:

Ranges in IPaC for birds off the Atlantic coast are derived from species distribution models developed by the National Oceanic and Atmospheric Association (NOAA) National Centers for Coastal Ocean Science (NCCOS) using the best available seabird survey data for the offshore Atlantic Coastal region to date. NOAANCCOS assisted USFWS in developing seasonal species ranges from their models for specific use in IPaC. Some of these birds are not BCC species but were of interest for inclusion because they may occur in high abundance off the coast at different times throughout the year, which potentially makes them more susceptible to certain types of development and activities taking place in that area. For more refined details about the abundance and richness of bird species within your project area off the Atlantic Coast, see the Northeast Ocean Data Portal. The Portal also offers data and information about other types of taxa that may be helpful in your project review.

About the NOAANCCOS models: the models were developed as part of the NOAANCCOS project: Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf. The models resulting from this project are being used in a number of decision-support/mapping products in order to help guide decision-making on activities off the Atlantic Coast with the goal of reducing impacts to migratory birds. One such product is the Northeast Ocean Data Portal, which can be used to explore details about the relative occurrence and abundance of bird species in a particular area off the Atlantic Coast.

All migratory bird range maps within IPaC are continuously being updated as new and better information becomes available.

Can I get additional information about the levels of occurrence in my project area of specific birds or groups of birds listed in IPaC?

Landbirds:

The Avian Knowledge Network (AKN) provides a tool currently called the "Histogram Tool", which draws from the data within the AKN (latest,survey, point count, citizen science datasets) to create a view of relative abundance of species within a particular location over the course of the year. The results of the tool depict the frequency of detection of a species in survey events, averaged between multiple datasets within AKN in a particular week of the year. You may access the histogram tools through the Migratory Bird Programs AKN Histogram Tools webpage.

The tool is currently available for 4 regions (California, Northeast U.S., Southeast U.S. and Midwest), which encompasses the following 32 states: Alabama, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Hampshire, New Jersey, New York, North, Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin.

In the near future, there are plans to expand this tool nationwide within the AKN, and allow the graphs produced to appear with the list of trust resources generated by IPaC, providing you with an additional level of detail about the level of occurrence of the species of particular concern potentially occurring in your project area throughout the course of the year.

Atlantic Seabirds:

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAANCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Not for consultation

Facilities

Wildlife refuges

Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGES AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

WETLAND INFORMATION IS NOT AVAILABLE AT THIS TIME

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Not for consultation

B-3 - CNPS - Inventory of Rare and Endangered Plants Query (8th Edition)

North Hollywood High School

CNPS Inventory of Rare and Endangered Plants Query 4/13/2017

CNPS California Native Plant Society — Inventory of Rare and Endangered Plants

Home | About the Inventory | CNPS Home | Join CNPS | Simple Search | Advanced Search

Plant List

8 matches found. *Click on scientific name for details*

Search Criteria

Found in Quad **3411824**

Modify Search Criteria | Export to Excel | Modify Columns | Modify Sort | Display Photos

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Astragalus brauntonii	Braunton's milk-vetch	Fabaceae	perennial herb	Jan-Aug	1B.1	S2	G2
Calochortus catalinae	Catalina mariposa lily	Liliaceae	perennial bulbiferous herb	(Feb)Mar-Jun	4.2	S4	G4
Calochortus plummerae	Plummer's mariposa lily	Liliaceae	perennial bulbiferous herb	May-Jul	4.2	S4	G4
Centromadia parryi ssp. australis	southern tarplant	Asteraceae	annual herb	May-Nov	1B.1	S2	G3T2
Chorizanthe parryi var. fernandina	San Fernando Valley spineflower	Polygonaceae	annual herb	Apr-Jul	1B.1	S1	G2T1
Juglans californica	Southern California black walnut	Juglandaceae	perennial deciduous tree	Mar-Aug	4.2	S3	G3
Malacothamnus davidsonii	Davidson's bush-mallow	Malvaceae	perennial deciduous shrub	Jun-Jan	1B.2	S2	G2
Phacelia hubbyi	Hubby's phacelia	Hydrophyllaceae	annual herb	Apr-Jul	4.2	S4	G4

Suggested Citation

California Native Plant Society, Rare Plant Program. 2017. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website http://www.rareplants.cnps.org [accessed 13 April 2017].

B-4: North Hollywood High School Tree Inventory

Tree Management & Preservation Study

for North Hollywood High School

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Introduction

Background

Ahbe Landscape Architects and CO Architecture are working on a modernization plan for North Hollywood High School in the Los Angeles Unified School District. The school is about 80 years old and portions are considered historic. Besides its educational functions, some of the recreation facilities are open on weekends, as a community recreational facility.

The master plan includes addition and removal of buildings and paving. The value of the mature trees on campus is being analyzed to aid in the planning process. The future health and safety of the trees will depend on protecting them during construction, providing a suitable environment for their future growth and providing proper maintenance.

The trees of North Hollywood High School are a significant asset to the campus. There are many large trees that provide historical context and all the other benefits of large trees. While all trees age and eventually decline and die, proper care can extend their period of useful and attractive life. One of the primary means of extending trees' useful life expectancy is to protect and increase their root space. Some of the original trees date back to the 1930s.

There are no endangered species of trees on this property, but there are many oaks and sycamores which are City of Los Angeles protected *species*, but not protected because they are not naturally occurring. Having evolved through various management programs and the growth of the campus, there is a mixture of large mature trees and younger replacement plantings. The vast majority of the trees covered within this report are non-native exotic species trees, but there are many California live oaks. Most of the trees on campus are attractive from a distance; however when inspected individually, some have been poorly trained or pruned, contain many structural defects, and are in poor or declining health due to pests, soil compaction, or the small root space available.

Assignment

This consultant was asked to provide arboricultural evaluation of approximately 300 trees' health and condition, professional opinions and report as appropriate. Each tree will be tagged, measured, and evaluated. Specific clearance and protection recommendations will be provided. Additional recommendations for measures to improve tree health are also included.

Executive Summary

Overview of Conditions and Recommendations

Almost three hundred trees are growing around the site of North Hollywood High School, including: a large number of *Afrocarpus falcatus*, fern pines; *Quercus agrifolia*, Coast live oak; *Pittosporum undulatum*, Victorian box; *Fraxinus uhdei*, Shamel ash, *Jacaranda acutifolia*, Jacaranda, *Callistemon viminalis*, weeping bottlebrush, *Pinus canariensis*, Canary Island pine; and *Quercus suber*, cork oak. There is a good collection of conifers and ficus. Their sizes, health and structural condition are found in the enclosed Matrix of Findings, later in this report. There are also many small fruit trees in the horticulture section, but they were not included in this report.

Most of the trees planted in large open areas are doing well and will withstand the redevelopment, if proper care is taken. However, as one should expect, the trees planted over seventy years ago in small, restricted planters are reaching their maximum size and are declining or will soon begin to decline in health. The trees in small cutouts are equivalent to street trees. The average life expectancy of urban street trees in Los Angeles, as published by the American Forestry Association, is seventeen years. For appraisal purposes, Marshall Valuation Service gives an average life expectancy of 35 years for deciduous trees and 25 years for evergreen trees. Marshall's table gives a 30 or 20-year life expectancy guideline for "low" situations, which would apply to small planters or cutouts. The main limiting factor is the lack of root space. Large projects are mass graded and compacted. When trees are planted, a four-foot square hole is dug into this compacted soil. Typically, the tree roots grow up out of the planting hole and extend beneath the surrounding paving. After a few years those roots are cut so the paving can be repaired.

A seventy year old high school campus also has had considerable soil compaction from student foot traffic and lawn maintenance equipment traversing the trees' root zones day-by-day, week-by-week and year-by-year. Unlike in a garden or forest, a campus tree has no leaf litter, burrowing creatures, or native grasses left to molder beneath the tree and aerate and enrich the soil. In fact it is the opposite, heavy equipment mows and then rakes or blowers remove the organic matter. Once the compaction progresses, there is no fast and economical way to reverse this that would not destroy the roots in the process. So the trees do not have a healthy or natural root environment. Mulching can over time reverse this process, at least near the surface, but by then the main large roots are growing in the position they will stay in.

Due to the short lifespan of trees in small, confined planters, planners should consider that remaining life expectancy is difficult to estimate and may be shortened by unforeseen pests, diseases and storms. Trees in confined areas should be given a lower status for retention. For maintenance budgeting purposes, the reader should consider that trees in confined planters require more maintenance and have shorter lives. They have served the campus; it is time to replant.

Skillful pruning strengthens and beautifies trees, and increases their value and life spans. Early training is needed to ensure good attachment of the main scaffold limbs. Flush cuts, heading, topping and lion-tail pruning create weak structure, and also reduce the health and beauty of the trees. While the pruning on campus is slightly higher than average quality, there are still many defects left from inferior pruning work. A matrix including details of structural defects and health considerations is found later in this report.

For the purposes of planning, I made a judgement of which trees are more valuable or priority trees. In the absence of historically or socially important criteria, the more valuable trees would, in my opinion, be based on health, soundness, beauty, remaining life and size. Their value to the school is rated in these terms in the analysis section of this report. Some extra value was given to the older trees around the older buildings for their addition to historical context.

Even healthy mature trees can drop otherwise sound limbs. However, in most cases there are good indications of future limb drop or failure during storms. Maintenance personnel should be trained to recognize warning signs, report them, and have a plan to deal with risk in a prompt manner. A regular inspection by a designated and trained individual must be begun, since North Hollywood High School is a heavily used public institution. This is a significant public safety issue. A suggested risk management policy is found in the risk assessment section of this report.

The City of Los Angeles protected tree Ordinance protects four categories of native trees: native oaks *Quercus agrifolia, Quercus lobata, Quercus engelmannii, and Quercus john-tuckeri*; the native sycamore, *Platanus racemosa;* the native bay, and the southern California black walnut, *Juglans californica*. For the purposes of this ordinance, "native" means one of these native species remaining from it natural setting. None of the trees here meet those criteria.

Findings

General

The bulk of the trees on this site are *Afrocarpus falcatus*, fern pines; *Quercus agrifolia*, Coast live oak; *Pittosporum undulatum*, Victorian box; *Fraxinus uhdei*, Shamel ash, *Jacaranda acutifolia*, Jacaranda, *Callistemon viminalis,* weeping bottlebrush, *Pinus canariensis*, Canary Island pine; and *Quercus suber*, cork oak. There are 75 trees just between the two species, *Afrocarpus falcatus* and *Quercus agrifolia*, on this site. The fern pines have grown vertically and have grown well. They have few serious defects, and failures are rare in this species. The coast live oaks have grown well and grown large. However, they are more apt to be decayed or have structural defects. For the older oaks, the most common defects are overly long, end-heavy limbs and occasional decay.

The fern pines, formerly known as *Podocarpus gracilior*, are a well behaved evergreen conifer, but they do not make cones. Most of the ones on campus are large old specimens. Only two or three are dropping any significant amount of fruit, but over paving the fruit could make a slip and fall risk. They are deep rooted and drought tolerant, with little pest or disease problems.

The most common species on this site is the coast live oak. There are 52, counting the street trees. Coast live oaks are a protected species in Los Angeles, but none of these appear to be naturally occurring. This whole area was covered in orchards long before there was a high school. Those planted as street trees have grown quite large and provide a good deal of shade. The oaks on campus have grown and become adapted to regular irrigation, but are more shallow rooted

as a result. Their limbs have also grown long and end heavy. This species is one of the most commonly reported trees to the California Tree Failure Report Program, partly due to being so ubiquitous up and down the state.

Victorian box are a small tree or a large shrub. Many of the ones on campus appear to have started as shrubs and been gradually trimmed up into small multi-trunked trees. Victorian box are sensitive to poor percolation and when the percolation is slow they often develop root rot disease.

Shamel ash trees are mostly used in the central courtyard. They had previously outgrown the planting spaces, more space was provided, and now are outgrowing the space again. They are notorious for having large, long and destructive roots. Since there is little root damage around these trees, it is likely that many roots were cut and the paving repaired before the openings were enlarged. Shamel ash are also notorious for having narrow branch angles and included bark between codominant limbs which are prone to splitting out.

Jacarandas are beautiful sub-tropical flowering trees. They are just finishing the flowering period, so this is the time to prune them. It looks like the tree service was in a hurry to trim them up more tree-like. Jacarandas, like most flowering trees are beautiful when they flower, but many people resent the flowers that blow around or fall below.

Weeping bottle-brush are difficult to train and prone to codominant trunks and included bark. They need good professional pruning to train them into strong and attractive trees.

Canary Island pines are one of the most problem free and low maintenance ornamental trees. They seldom need pruning unless they develop a forked leader or overly large side branches. If the soil allows, they are extremely deep rooted and cause little paving damage.

The cork oaks have also performed well and could have good remaining life, but they are planted in small cutouts and unless their planting spaces are enlarged, they will soon begin to run out of root space and begin declining in health.

The next most common species is *Eucalyptus globulus*. Blue gums are typically planted for wind rows and seldom as single ornamental specimens. They are fine rooted and seldom damage paving, however they are known for dropping large limbs even during calm winds. Due to soil compaction and small planting spaces, the roots of the blue gums are shallow and causing more damage than would be expected. Tree preservation can be a costly and detailed undertaking, and the useful life span of these trees; their present appearance and condition dictate balancing the cost of replacement or preservation in place with their value and remaining lifespan.

Species distribution

Species	Common Name	Count
Afrocarpus falcatus	Fern pine	23
Agathis robusta	Kari pine	1
Albizia julibrissin	Mimosa	1
Araucaria columnaris	Hoop pine	1
Arbutus unedo	Strawberry madrone	1
Archontophoenix cunninghamiana	King palm	2
Bauhinia purpurea	Orchid tree	1
Brachychiton rupestris	Bottle tree	1
Callistemon viminalis	Weeping bottlebrush	8
Calocedrus decurrens	Incense cedar	1
Cassia leptophylla	Gold medallion tree	2
Cedrus deodara	Deodar cedar	6
Celtis reticulata	Western hackberry	5
x Chitalpa tashkentensis	Chitalpa	1
Chorisia speciosa	Floss silk tree	1
Cocculus laurifolia	Laurel-leaf snail seed	1
Corymbia citriodora	Lemon scented gum	1
Cupaniopsis anacardioides	Carrotwood	4
Cupressus glabra	Arizona cypress	2
Erythrina caffra	Coral tree	1
Eucalyptus camaldulensis	Red gum	1
Eucalyptus globulus	Blue gum	7
Eucalyptus polyanthemos	Silver Mountain gum	2
Ficus m. Green Gem	Green Gem Indian laurel	3
Ficus m. Nitida	Indian laurel	7
Ficus macrophylla	Morton Bay fig	1
Ficus microcarpa	Chinese banyan	1
Ficus mysorensis	Mysore fig	1
Ficus nekbudu	Zulu fig	1

Species	Common Name	Count
Ficus nekbudu variegata	Variegated Zulu fig	1
Ficus rubiginosa	Rusty leaf fig	1
Ficus bengalensis	Indian banyan	1
Fraxinus uhdei	Shamel ash	10
Ginkgo biloba	Maiden hair tree	1
Heteromeles arbutifolia	Toyon	1
Ilex cornuta Burfordii	Burford holly	1
Jacaranda mimosifolia	Jacaranda	5
Juniperus c. Torulosa	Hollywood juniper	3
Koelreuteria paniculata	Golden rain tree	5
Lagerstroemia indica cv	Crape myrtle	4
Ligustrum lucidum	Glossy privet	2
Liquidambar styraciflua	Sweet gum	1
Magnolia grandiflora	Southern magnolia	5
Melaleuca quinquenervia	Paperbark melaleuca	2
Morus alba	Mulberry	3
Olea europea	Olive	1
Parkinsonia aculeata	Jerusalem thorn	1
Phoenix canariensis	Canary Island date palm	5
Phoenix reclinata	Senegal date palm	1
Phoenix x canariensis	Hybrid date palm	2
Pinus canariensis	Canary Island pine	3
Pinus eldarica	Afghan pine	1
Pinus halepensis	Aleppo pine	5
Pinus roxburghii	Chir pine	2
Pinus torreyana	Torrey pine	4
Pistachia chinensis	Chinese pistache	3
Pittosporum rhombifolium	Queensland lace	4
Pittosporum undulatum	Victorian box	8
Platanus racemosa	California sycamore	2

Species	Common Name	Count
Platanus x Acerifolia	London plane tree	2
Prunus lyonii	Catalina cherry	1
Pyrus c. Bradford	Bradford pear	1
Quercus agrifolia	Coast live oak	52
Quercus ilex	Holly oak	1
Quercus suber	Cork oak	9
Robinia pseudoacacia	Flowering locust	4
Schinus molle	California pepper	2
Sequoia sempervirens	Coast redwood	2
Syagrus romanzoffianum	Queen palm	1
Platycladus orientalis	Arborvitae	5
Tipuana tipu	Tipu tree	8
Ulmus parviflora	Chinese elm	2
Washingtonia robusta	Mexican fan palm	7

Note the wide diversity of species.

Pests and Disease

Few significant pests were noted. Blue gum eucalyptus are being attacked by snout beetles and tortoise beetles, but there were few other pests. This consultant also saw few clear signs of disease; other than decay and indications of a water mold disease. However the stressful conditions the trees are living under would be likely to lead to disease. Pittosporums usually have some amount of Verticillium wilt, so it is just important not to over-water these trees. In addition proper mulching can reduce the risk of some water mold diseases. The dieback evident in a number of trees could be due to disease or environmental stress factors, e.g. drought stress or crowding. The flush cuts found on a number of trees can be expected to lead to decay. Basal injuries and root injuries related to lawn maintenance has, and can be expected to lead to disease and decay. Injuries closer to the soil are more likely to decay. Planned construction may cause stresses sufficient to allow disease to progress and decay to advance.

General Soils Discussion

One of the major effects of heavy foot and lawn mower traffic is soil compaction. Evidence linking compaction to the poor health and early death of trees has been clearly shown. The effect of compacted soil on trees is obvious. Other plants that happen to be rooted in compacted soil, shrubs, perennials, even turf, are struggling in the dense soil as well. The bare soils below many trees and shrubs, where even weeds don't grow back, are common on the campus. Root systems demand certain conditions and simply will not grow in compacted soil.

Several signs compacted soil are:

- Standing water on the soil surface long after even moderate rain.
- Roots of plants, especially trees, close to or exposed on the surface.
- Yellowing of foliage, especially in early spring, coupled with diminished development of leaves throughout the growing season. Although, that may indicate unhealthy roots or nutrient deficiency as well. Cross-checking with foliar and soil analyses may be required.
- Presence of certain grasses or weeds that tolerate compacted soils, e.g. plantain.
- Resistance to penetration of the soil by shovel, pick, knife point or probe.

Several of these symptoms are present on this heavily used site. It is unlikely that one symptom alone - except resistance to penetration - indicates compaction. Moreover, individual features do occur on uncompacted soils; shallow-rooted tree species such as ficus, sweet gum, and Shamel ash, for example, exhibit roots near the surface even on uncompacted soils. Growing in turf also contributes to the shallow rooting.

Significant effects of soil compaction as they affect management of the site include:

- Crusting. Crusting occurs when the soil aggregates are pulverized and the fines fill the smaller pores. In addition, traffic compacts the surface more than lower soil depths.
- Decreased infiltration. The crust formation coupled with the reduced pore space and its smaller average-pore size reduces the infiltration capacity of the compacted soil even under heavy rainfall, creating runoff and soil erosion.
- Increased density. As soil fragments fill voids in compressed soil, the total pore space is reduced and the larger air-filled pores are destroyed or at least reduced in size.
- Decreased water-holding capacity. Since water is held in the pore space, any pore space decrease will generally decrease water-holding capacity. Drought symptoms may be shown even on frequently irrigated trees.
- Decreased soil aeration. Diffusion of gases, such as oxygen and carbon dioxide, into and out of the soil can be greatly reduced. Pores become discontinuous and the pores that are water-filled act as a barrier to diffusion of gases. Even though the surface soil may be the only portion compacted, infiltration and diffusion are

determined by the least permeable layer of the soil profile; so the entire root zone may suffer from reduced diffusion.

- Root impedance. Roots penetrate only pores as large as or larger in diameter than their root tip; a root will penetrate a smaller pore only if the soil is loose. When the soil is firm, the root simply cannot penetrate the smaller pore.

Unfortunately, soil compaction is now obvious but only after it happened. The best and most reliable procedure for preventing in the future design it is to specify compaction-resistant soils in the redesign process, together with other design elements such as large mulch beds.

Matrix of Findings

Each tree on campus over 4 inches and most over 3 inches in trunk diameter were labeled with consecutively numbered metal tags (from 1-200, 249-255, 748-800). Common names for each species were presented in the previous section. The species, size, evaluation of health, structural condition, and the description of defects of the trees is listed below. Arboricultural terms are defined in the glossary and an explanation of the abbreviations follows this Matrix.

Caliper is determined according to methods described in the 9th edition of the *Guide for Plant Appraisal.* A Biltmore stick was used to measure trees over seven inches and tree calipers were used to measure trees less than seven inches in trunk diameter. An "A" to "F" scale is used to rate Health and Structure, i.e. "A" or excellent, 4 = "B" or good, 3 = "C" or average, 2 = "D" or poor, and 1 = "F" or dead, near dead or structurally weak respectively.

Tree #	Species	DBH	Ht.	Wd.	Health	Structure	Comments
1	Jacaranda mimosifolia	10	20	15	B	B	Cod, bare soil
2	Quercus agrifolia	8	18	20	B	C	Cod inc Sh Xing, bare soil
3	Quercus agrifolia	26	40	46	C	C	OL DL, bare soil
4	Quercus agrifolia	34	40	50	C	C	Cod Lt DL EH, bare soil
5	Quercus agrifolia	22	35	40	C	C	Deep TO OL
6	Quercus agrifolia	40	45	60	C	C	Cod inc CrS Xing
7	Quercus agrifolia	24	40	50	C-	C-	Deep TDk Db
8	Quercus agrifolia	26	40	50	B	C	Cod EH, Ivy over RC
9	Quercus agrifolia	34	45	50	B	C	OL EH, Ivy over RC
10	Quercus agrifolia	28	40	40	C	C	OL cod TDk, Ivy over RC
11	Quercus agrifolia	29	36	46	B	C	Cod EH, Ivy over RC
12	Quercus agrifolia	26	36	50	B	C	Leans over S/W cod Lt EH, Ivy over RC

Tree #	Species	DBH	Ht.	Wd.	Health	Structure	Comments
13	Quercus agrifolia	21	42	45	C	C-	Cod OL TDk deep, Ivy over RC
14	Quercus agrifolia	26	42	50	D	C	Db Sp S/W lift Xing cod, bare soil
15	Quercus agrifolia	34	42	50	C	C	Cod EH S/W lift, bare soil
16	Quercus agrifolia	27	40	40	B	B	TDk EH, bare soil
17	Quercus agrifolia	33	40	50	A	B	mCod DL Sh
18	Quercus agrifolia	22	35	35	C	C-	Cr deodar TDk SDb DW, roots cut?
19	Quercus agrifolia	35	45	60	C	C	Cod Sh EH 2large DW
20	Quercus agrifolia	25	35	50	C	C-	Cod inc Tinj TDk EH 1sRF
21	Quercus agrifolia	27	40	45	C	C	OL TDk Cr deodar, valve box and drain line 2close
22	Quercus agrifolia	25	35	40	C	C-	OL DW Sh 1s EH 1sRF
23	Quercus agrifolia	50	50	70	C	C	mDb S/W lift cod inc CrS Sh, gutter lifted
24	Quercus agrifolia	26	40	40	B	C-	TDk cod 1s
25	Quercus agrifolia	18	24	24	C	B	Sh Sp
26	Quercus agrifolia	31	40	45	C	C	Cod Sh EH EW
27	Quercus agrifolia	26	40	50	C	C	Cod 1sRF rib mLean EH deep
28	Quercus agrifolia	21	22	50	B	C-	Cod Lt EH DLS 1sRF SDk
29	Quercus agrifolia	30	40	50	B	C	Cod Lt EH DW 1sRF
30	Magnolia grandiflora	21	30	30	C	C	Sp epi S/W lift mDb
31	Cedrus deodara	20	50	50	D	C-	OL Sp cod S2big deep
32	Cedrus deodara	32	65	50	C-	C-	2long OL
33	Callistemon viminalis	12	40	25	C	C-	mlean Sp 1s cod inc Sh, bare soil
34	Pittosporum rhombifolium	12"b	35	12	C-	C-	S-inc Sp OL Sp, bare soil
35	Pittosporum rhombifolium	13	30	10	B	C-	Cod inc OL
36	Washingtonia robusta	75'th		90	B	C	gaffed
37	Cedrus deodara	38	85	50	C	B	2long S-brk
38	Calocedrus decurrens	23	60	20	D	C-	Db mLean cod top, bare soil
39	Afrocarpus falcatus	14	65	20	C	C	Cr #40 1s, bare soil
40	Afrocarpus falcatus	25	60	40	B	C	Cod inc, bare soil
41	Platycladus orientalis	10	28	18	C	C	Deep leans out FC B-inj, bare soil
42	Afrocarpus falcatus	26	65	35	A	C	Cod inc 2long, bare soil
43	Callistemon viminalis	13	25	15	D	C-	Cod inc Db Sp, bare soil
44	Ficus m. Nitida	25	55	32	B	C-	Cr cod inc CrR, brk wall, 1s mLean

Tree #	Species	DBH	Ht.	Wd.	Health	Structure	Comments
45	Ficus m. Nitida	16+16	55	20	C	C-	Cr cod inc Xing 1s mLean
46	Ficus m. Nitida	18+17	55	30	B	C-	Cr cod inc 1s leans out
47	Cedrus deodara	29	75	50	B	C	Cr #46 2long OL cod top
48	Afrocarpus falcatus	11	40	20	C	B	1sRF Cr #49
49	Pinus canariensis	33	90	50	B	C	2long Hd DL
50	Afrocarpus falcatus	13	50	20	C	B	Near roof edge
51	Afrocarpus falcatus	20	55	30	B	B	On root edge, Sh
52	Afrocarpus falcatus	5	24	13	C-	C	Deep Sp mLean, , bare soil
53	Afrocarpus falcatus	16	50	24	B	C	On roof cod, bare soil
54	Afrocarpus falcatus	14	45	20	C	C	In enclosure, pale cod top, bare soil
55	Afrocarpus falcatus	13	45	16	C	B	Sp on roof, bare soil
56	Afrocarpus falcatus	11	35	16	B-	C	Sp near roof 1s Sp, heavy fruit, bare soil
57	Afrocarpus falcatus	4.5	20	10	C	D	Deep top'd Sp, bare soil
58	Afrocarpus falcatus	20	50	20	C	C	Cod on roof, bare soil
59	Afrocarpus falcatus	18	55	25	C	B	Cod top, bare soil
60	Quercus agrifolia	32	45	45	A	C	Dee EH P:
61	Afrocarpus falcatus	28	40	40	B	C	CrR cod TO
62	Afrocarpus falcatus	28	40	50	B	C	Cod TD FC CrR, bare soil
63	Quercus agrifolia	4.5	11	10	C	D	B-inj leans CrS
64	Afrocarpus falcatus	9	30	25	B	B	Deep cod top, bare soil
65	x Chitalpa tashkentensis	3.7	14	12	C	C	1sRF mLean staked
66	Afrocarpus falcatus	22	50	40	C	C	Cod inc near roof pale, heavy fruit, bare soil
67	Afrocarpus falcatus	38	60	50	B	C	Cod Xing, cross fused crotch, 2long
68	Lagerstroemia indica cv	3.7	17	9	C	C	Cod CrS MB**,** bare soil
69	Lagerstroemia indica cv	3.8	17	10	B	C	Cod CrS, bare soil
70	Ficus m. Green Gem	12	24	48	B	C	Cod CrS Lt EH Sh, bare soil
71	Jacaranda mimosifolia	4+3+5+3	14	20	B	C	Cod CrT
72	Magnolia grandiflora	5.5	23	15	C	B	Sp 1sRF
73	Fraxinus uhdei	34	70	35	B	C	Cod, roots cut?, OL, RF fills planter
74	Fraxinus uhdei	16	40	30	C-	C	Cod mGird topDb
75	Fraxinus uhdei	30	60	45	C	C-	Cod epi Hd DL CrS
76	Fraxinus uhdei	22	50	45	C	C-	Cod Hd DL mDb seedy

Tree #	Species	DBH	Ht.	Wd.	Health	Structure	Comments
77	Fraxinus uhdei	28	50	45	C	C	mGird Sh cod CrS Hd DL, bare soil
78	Afrocarpus falcatus	6.5	25	16	C	B	Deep cod top, bare soil
79	Fraxinus uhdei	20	50	40	B	C	Cod inc CrS Hd, bare soil
80	Fraxinus uhdei	24	45	24	D	C-	B-inj Hd Db cod FC, bare soil
81	Fraxinus uhdei	21	30	22	C-	C-	Cod inc seedy Hd DL, bare soil by open planter
82	Fraxinus uhdei	30	60	40	C	C	CrR cod inc
83	Fraxinus uhdei	38	65	50	B	C	CrR cod inc mTDk Hd DL
84	Afrocarpus falcatus	27	48	48	B	C	Cod mLean CrR DL
85	Juniperus c. Torulosa	18	20	18	B	B	Twisted trunk
86	Parkinsonia aculeata	5"b	17	18	C	C	Suckers
87	Tipuana tipu	12	25	30	B	D	Sh Hd epi S/W lift, bare soil
88	Tipuana tipu	12	35	35	B	D	Cod inc Xing eipi 1sRF, bare soil
89	Tipuana tipu	15	35	40	B	D	Cod Db DL Xing epi
90	Afrocarpus falcatus	30	60	60	B	C	Sh mLean cod, bare soil
91	Ficus microcarpa	15	30	35	B	C	1s Sh Lt FC EH, bare soil
92	Quercus suber	22	40	35	B	B	CrR T-inj 2x, EH S-brk
93	Quercus suber	15	32	32	B	B	Deep CrR
94	Quercus suber	15	35	30	C	C	Deep CrR cod
95	Quercus suber	17	32	33	C	C	CrR cod deep
96	Quercus suber	17	25	25	C	C	CrR T-bow
97	Quercus agrifolia	8	18	24	A	C	CrR CrS cod
98	Quercus suber	15	28	30	B	C	CrR CrS cod
99	Quercus suber	23	30	45	C	C-	CrR CrS cod, outer Db
100	Quercus suber	28	40	44	B	C	CrR CrS deep, paving lifted, cod EH
101	Quercus suber	23	40	42	A	B	CrR cod deep paving lifted
102	Eucalyptus globulus	34	70	35	C	C	CrR TB
103	Eucalyptus camaldulensis	18	70	55	D	C	CrR cod 2long
104	Ficus m. Green Gem	9	30	30	C	C	Sup CrR mLean
105	Ficus m. Green Gem	8+5	24	24	C	C-	Cod inc, many ants
106	Brachychiton rupestris	25	38	10	B	C	Cod
107	Eucalyptus polyanthemos	8	32	26	C-	C	Deep cod T-bow
108	Pinus pinea	32	40	45	B	D	30° off horizontal, EH mSp

Tree #	Species	DBH	Ht.	Wd.	Health	Structure	Comments
109	Ficus rubiginosa	22	50	50	C	C	TO 2long EH SP
110	Schinus molle	6	20	18	B	B	mLean 1sRF
111	Schinus molle	3.8	11	12	B	C	Deep CrS Cr #109
112	Pinus halepensis	5	13	12	B	C	Cod S-DL
113	Pinus halepensis	30+25	70	65	B	C	OL TO 2long
114	Celtis reticulata	6+6+8+5	45	40	C	C	Stump sprouts, T-inj T-cut off. Fruit trees not recorded
115	Quercus agrifolia	25	45	50	A	C-	Cod inc RC-covered 2long
116	Morus alba	17	45	45	B	C	T-bow 1s TDk bleeding
117	Phoenix canariensis	40'th		24	B	B	Dry
118	Phoenix canariensis	45'th		24	B	B	Dry
119	Pinus canariensis	18	70	20	B	A	Damaging wall, 1s Cr #120
120	Washingtonia robusta	65'th		12	B	B	gaffed
121	Pinus canariensis	15	60	12	B	B	Okay
122	Pittosporum undulatum	6	20	18	B	C	T-inj cod OL
123	Pittosporum undulatum	5.5	18	15	C	C	Cod mLean OL
124	Ficus m. Nitida	26	50	45	C	B	Cod inc Sh Xing
125	Phoenix canariensis	30'th		24	B	B	Cr #126
126	Phoenix canariensis	32'th		24	B	B	Cr #125
127	Phoenix canariensis	29'th		24	B	C	Cr #126 dry, holds up #130
128	Ficus m. Nitida	30	55	45	B	C	S/W lift Sh TO
129	Quercus agrifolia	3.6	15	11	C	C	Sp shaded T-DL
130	Quercus agrifolia	14	35	30	B	C	1s leans on #130, 70° lean
131	Quercus agrifolia	16	30	32	B	C	Gird by fence, edge of road, cod 1s
132	Phoenix x canariensis	32'th		25	B	B	Bow'd, dry
133	Phoenix x canariensis	30'th		25	B	B	mBow'd, dry
134	Eucalyptus polyanthemos	30	60	45	C	C-	1s lean 20° off vertical, cod lifts D/W
135	Cupaniopsis anacardioides	11	24	24	C	C-	Cod inc TO, OL Hd DL
136	Cupaniopsis anacardioides	11	26	26	C	C-	Cod Hd DL CrR
137	Cupaniopsis anacardioides	10	26	22	C	C-	Cod S-inj OL Hd DL Cr #138 CrR Suppressed
138	Corymbia citriodora	31	75	35	B	C	Lifts D/W CrR
139	Cupaniopsis anacardioides	13	28	24	B	C	CrR cod Suppressed
140	Callistemon viminalis	13	16	16	B	C-	CrR cod Hd DL

Tree #	Species	DBH	Ht.	Wd.	Health	Structure	Comments
141	Callistemon viminalis	13	17	15	B	C-	CrR cod inc Hd DL
142	Callistemon viminalis	8	17	14	B	D	CrR cod inc T-inj
143	Callistemon viminalis	8	14	10	C	D	Deep 45° T-DL cod inc
144	Callistemon viminalis	10	18	10	C	D	Deep OL cod inc Xing
145	Callistemon viminalis	9	16	6	C	D	Deep DL cod inc Xing
146	Olea europea	32	40	48	B	B	Sh S/W lift CrS
147	Washingtonia robusta	50'th		9	B	B	2long
148	Morus alba	30"b	45	40	C	D	ivy covered
149	Quercus ilex	15	50	42	A	B	Ivy on T
150	Morus alba	18	42	38	B	C-	1s over neighbor, on wires, TDk
151	Quercus agrifolia	30	45	45	B	C	ivy on T, cod EH
152	Quercus agrifolia	30	50	50	B	C	Cod inc leans
153	Quercus agrifolia	19	30	40	B	D	Cod inc 1T on ground, 1s on neighbor's roof
154	Pinus torreyana	21	50	40	C	C	2long, pitch tube=turpentine beetle, Cr@157
155	Cupressus glabra	21	40	38	C	C-	Cod lean
156	Heteromeles arbutifolia	7+4+4+3	20	25	C	C-	Cod Xing DL Sup
157	Cupressus glabra	10"b	16	18	D	D	45° lean sup
158	Celtis reticulata	30"b	50	50	C	C-	Cod inc Xing eipi 1sRF, bare soil
159	Pinus torreyana	15	40	25	C	C-	Cod inc Cr #154
160	Pinus torreyana	24	65	45	B	C	Cod Xing 2long
161	Pinus torreyana	13	65	30	C-	C	Cr#160 shaded out lower half
162	Prunus lyonii	13"b	25	20	C	C	Cod inc sup
163	Washingtonia robusta	60'th		9	B	C	gaffed
164	Washingtonia robusta	60'th		9	C	C	gaffed
165	Quercus agrifolia	23	50	50	B	C	1s T-bow Cr #164
166	Pinus eldarica	23	60	45	B	C	1s T-bow, edge tree
167	Celtis reticulata	4+3	25	25	B	C	Cod sup
168	Arbutus unedo	4	18	18	B	C	1s T-bow sup
169	Pinus halepensis	12	25	23	C	C-	1s lean over courts, cod inc DLT
170	Celtis reticulata	14	45	30	C	C	Sh 1s, edge tree
171	Cedrus deodara	40	80	50	B	C	Cod inc 1s, edge tree
172	Platanus racemosa	11	45	25	B	C	OL Cr #173 sup

Tree #	Species	DBH	Ht.	Wd.	Health	Structure	Comments
173	Platanus racemosa	36	80	45	A	B	Leans, cod top, Sh
174	Agathis robusta	12"b	50	20	B	C	Cod inc deep
175	Platanus x Acerifolia	30	80	30	B	C-	OL TDk @ base, inner protected grove
176	Sequoia sempervirens	16+8	70	35	C	B	Cr
177	Sequoia sempervirens	18	80	30	C	C	Cr
178	Afrocarpus falcatus	21+24	65	45	B	B	Cr Cod m1s
179	Lagerstroemia indica cv	7.5	20	20	C-	C-	FC T-bow
180	Lagerstroemia indica cv	9	24	22	C	B	FC 1s
181	Albizia julibrissin	18"b	21	24	C	C-	Hd Dk
182	Pinus halepensis	27	40	40	C	D	1s S-crk
183	Ginkgo biloba	14	50	20	B	B	Okay
184	Bauhinia purpurea	6.2	16	16	C-	D	Cod 40° off horizontal, 1s, over walk
185	Pinus roxburghii	17	80	20	C	C-	Cr OL
186	Pittosporum undulatum	5+6	30	20	B	C	Cod inc 1sRF
187	Pinus roxburghii	22	85	25	C	C	Cr OL, ivy up trunk
188	Cedrus deodara	33	80	60	A	B	2long
189	Jacaranda mimosifolia	25	50	50	C	C-	Cod inc OL DL CrR 1s
190	Araucaria columnaris	17	60	12	B	C	OL Cr #189 & 190, strangled by #191
191	Ficus m. Nitida	29	55	65	B	C	Rotation hazard over greenhouse, 30° Off horizontal, Sh
192	Pittosporum undulatum	242"b	40	32	B	C	Cod, lost half, FC
193	Liquidambar styraciflua	20	80	40	C	C	mDb Xylella? Hd DL
194	Magnolia grandiflora	22	47	40	C	B	2long Sp epi
195	Syagrus romanzoffianum	24		24	C	C	Penciled, gaffed, dry
196	Ficus bengalensis	36	60	60	B	C	cod inc, air roots, Cr
197	Washingtonia robusta	80'th		9	C	C	Cr gaffed
198	Ficus nekbudu variegata	9	25	40	C	C-	1s 2long Cr
199	Ficus nekbudu	27	60	60	B	B	Cr #198 & 200, 2long
200	Washingtonia robusta	50'th		12	C-	C	Sml head, gaffed
240	Pittosporum rhombifolium	10+10+8	28	25	C	C-	Cod inc Xing OL
241	Pittosporum rhombifolium	6+7	28	14	C-	C-	Cod inc Xing OL
242	Pittosporum undulatum	10+10+10	28	26	B	C-	Cod inc Xing OL
243	Jacaranda mimosifolia	2+3+4	17	17	C	C-	Cod inc 1s

Tree #	Species	DBH	Ht.	Wd.	Health	Structure	Comments
244	Pittosporum undulatum	17	32	28	B	C	Cod inc T-inj gird epi
245	Pittosporum undulatum	7+8	22	18	C	C-	Lt OL FC cod, bare soil
246	Jacaranda mimosifolia	24	455	50	C-	C-	Db Sh cod 2long DL
247	Ulmus parviflora	24	50	50	B	C	Cod EH, bare soil
248	Platycladus orientalis	5+9+10	30	16	B	C	1s cod inc, bare soil
249	Platycladus orientalis	5+6+5+5+6	30	18	B	C-	Cod inc 2Ts cut, bare soil
250	Platycladus orientalis	4+4+4+3+3	25	16	C	C-	Cod inc, bare soil
251	Platycladus orientalis	2+3+4+4	28	12	C	C-	Cod inc, 4Ts cut, bare soil
252	Pittosporum undulatum	12	18	20	B	C	60° lean Sh 1s
253	Koelreuteria paniculata	13	18	18	C	C-	DLt TDk S-Dk deep
254	Koelreuteria paniculata	11	18	20	B	C	Cod
255	Robinia pseudoacacia	9	18	9	D	D	Db Dk Sp
256	Robinia pseudoacacia	10+10	50	45	B	C	Cod inc
257	Koelreuteria paniculata	24	26	40	B	C	TDk Lt cod DLS
258	Robinia pseudoacacia	10	18	14	D	D	Db TDk cod MB Remove
259	Koelreuteria paniculata	19	22	40	B	C-	T-inj Lt cod MB Sh
260	Koelreuteria paniculata	17	20	36	D	C	Db cod MB Sh
261	Robinia pseudoacacia	26	45	45	C	C-	Cod seam Sh MB Xing DL
262	Juniperus c. Torulosa	20+22	18	30	C	C	Cod inc TO 1sRF
263	Ilex cornuta Burfordii	4+4+6+3	16	14	B	C	Cod OL
264	Juniperus c. Torulosa	22	20	20	C	C	Db 1sRF
265	Magnolia grandiflora	30	60	55	B	C	Lt epi mDb dry, in donkey yard
266	Phoenix canariensis	65'th	65	26	A	A	
267	Rawolfia javanica	18	55	45	B	C	ivy covered
268	Pinus halepensis	45	70	70	A	C	2long cod
269	Brachychiton discolor	16	25	22	B	C	DLS 2long, in chicken yard
270	Quercus agrifolia	28	40	60	B	C	2long Xing, lower limb Db, in chicken yard
753	Celtis reticulata	10+10+10	50	40	A	C	Cod DL epi
754	Chorisia speciosa	20	40	45	B	C	Cod inc 2long, lifts S/W
755	Cocculus laurifolia	10	25	25	B	C	1s Xing, on lath house
756	Melaleuca quinquenervia	32	65	45	B	C	1sRF mGird
757	Melaleuca quinquenervia	36	70	60	B	C	Cod inc, on wall

Tree #	Species	DBH	Ht.	Wd.	Health	Structure	Comments
758	Quercus agrifolia	15+15	50	60	C	C	Cr #757, cod inc, OL
759	Archontophoenix cunninghamiana	35'th		20	B	B	Thin T
760	Archontophoenix cunninghamiana	35'th		20	B	B	Thin T
761	Platanus x Acerifolia	29	65	65	C	C	CrS, Db top, cod
762	Phoenix reclinata	12Ts<20'	<20th	22	B	B	Needs cleaning
763	Ficus mysorensis	17+18+20	45	45	B	C	1s, on lath house
764	Cassia leptophylla	12	40	30	C	C-	1s cod Cr #763 & 765
765	Erythrina caffra	36	50	60	A	D	Cod inc Xing DL epi CrS, HAZARD
766	Cassia leptophylla	20	55	35	B	C	Cr #767 OL
767	Ficus macrophylla	34	70	60	B	B	Cr #766 Sh
768	Ficus m. Nitida	6+7+10	55	45	B	C	Cod inc Cr #767 1s
769	Eucalyptus globulus	40	70	35	C-	C	TB, top Db
770	Eucalyptus globulus	42	80	40	C	C	TB Sp
771	Eucalyptus globulus	40	75	35	C	C	TB Sp
772	Tipuana tipu	15	40	50	C-	C-	Cod inc Xing, bare soil
773	Tipuana tipu	14	35	45	C-	C	mXing Hd DL Sp, bare soil
774	Tipuana tipu	9	22	40	C-	C	Cod 2long Sp, bare soil
775	Tipuana tipu	18	40	45	C	C	Cod CrR, sml CO
776	Magnolia grandiflora	7	17	17	B	C	Cod epi sml CO
777	Magnolia grandiflora	9	25	20	B	B	Cod epi sml CO
778	Eucalyptus globulus	48	85	70	C	D	Cod inc TB, small space, 2long & horizontal = HAZARD, SB DC
779	Pyrus c. Bradford	5.5	20	12	C-	D	Cod inc
780	Tipuana tipu	22	50	60	B	C-	Xing cod DL 2long
781	Pistachia chinensis	10	35	40	B	C	Deep 2long
782	Pistachia chinensis	7.5	35	35	B	B	Deep cod
783	Pistachia chinensis	12	35	40	B	C	Deep cod inc 2long Xing
784	Quercus agrifolia	32	30	40	A	C	DLS 2long EH cod
785	Ulmus parviflora	28	50	50	B	C	Cod, root galls, @ field house
786	Eucalyptus globulus	39	60	40	C	C	mRDK cod, sml CO, TB, bare soil
787	Eucalyptus globulus	38	70	50	C	C	Sp TB cod inc epi

Tree #	Species	DBH	Ht.	Wd.	Health	Structure	Comments
788	Quercus agrifolia	27	40	45	C	C	TDk, sml CO, Sp
789	Quercus agrifolia	24	35	55	C	C	2long, sml CO, SP DL cod
790	Quercus agrifolia	28	35	55	C	C	TDk Lt EH Sp cod DL, soil piles in RZ
791	Quercus agrifolia	36	40	55	B	C	EH 2long cod
792	Quercus agrifolia	33	45	60	B	C	EH 2long mTDk
793	Quercus agrifolia	32	42	60	B	C	EH 2long mTDk cod
794	Quercus agrifolia	27	42	55	B	C	EH 2long TDk
795	Quercus agrifolia	36	45	60	B	C	EH 2long TDk
796	Quercus agrifolia	35	50	60	B	C	EH 2long TDk, in ivy
797	Quercus agrifolia	13	25	20	C	C-	TDk 1s cod sup, in ivy
798	Quercus agrifolia	24	25	55	C	C-	Deep Lt Cod sup, in ivy
799	Ligustrum lucidum	11	20	12	D	C-	DLT 1s 1sRF DL concrete adjoining base
800	Ligustrum lucidum	12	24	14	D	C-	DLT 1s 1sRF DL Db

**DBH – Diameter at Brest Height, i.e. 4.5 feet above grade.*

Abbreviations in the Matrix of Findings

The size, species, evaluation of health, structural condition, location, and the description of defects, health and condition of the trees are listed below. Arboricultural terms are defined in the glossary.

Common abbreviations used in the following matrix include:

1s = one sided, 1sRF = 1 sided root flare
B = base e.g. Binj = basal injury
Brk = break
CO = cut out
Cod = codominant branching
Crk = crack
Cr = crowded
CrR = crowded roots
CrS = crowded scaffold limbs
DB = dieback
Dk = decay
DL = dog-leg, DLS = dog-leg scaffold
DW = dead wood
D/W = driveway
epi = epicormic shoots
FC = flush cut
Inc = included bark
Lt = lion tailed
MB = mower blight
R = root e.g. Rinj = root injury
RC=root crown
RZ=root zone
Sh = shallow roots
Sp = sparse
S = scaffold limb
Sml=small
SDL = scaffold limb dog-legs
Sup = suppressed
SW = sidewalk
T = trunk
T-bow = bowed trunk
TB = tortoise beetles
TDk = trunk decay
Th = trunk height
Tinj = trunk injury
TO = tear out
Xing = crossing, rubbing limbs

An “m” in front of an abbreviation indicates minor severity, e.g., mDB = minor dieback. DB = severe dieback.

Risk Assessment

Tree Risk

The risk level of each living tree varies with the changing weather, irrigation received, activity near or under the canopy, and the severity of defects. The preceding matrix lists structural defects and one element of risk assessment is recognizing such defects, but then those defects need to be considered in how likely they are to lead to a failure and how likely such a failure is to strike a "target". Such targets could be pedestrians, vehicles (moving or parked), buildings, or other features or fixtures. No such considerations have been made, but several trees were marked as hazards when they had significant parts that were likely to fail and those parts where overhanging or near areas frequently used by students, visitors or staff.

There are always abatement options, such as whole tree removal, removing or moving the target, or removing or reducing the size of the part likely to fail, i.e. pruning. The abatement options involve consideration of both the tree, its defects, the species failure profile, and the target. In most cases, proper pruning, cabling, bracing, or guying, can reduce the risk of failure, at least temporarily. Risk can never be eliminated, just reduced, unless the tree is removed and even the removal can pose risk to those removing it. Risk can also reduced in many cases by restricting use or moving the target. Those charged with the responsibility of maintaining the trees should be familiar with the International Society of Arboriculture (ISA), *Best Management Practices – Risk Assessment* and *A Photographic Guide to the Evaluation of Hazard Trees in Urban Areas*, by Matheny and Clark. Risk Management is the responsibility of the LAUSD and campus staff.

A one time inspection does little to reduce the long term risk. The grounds crew that is around these trees day to day should be trained in recognizing tree risk issues. Their observations should then be supported by a professional and qualified tree risk assessor. The ISA issues such credentials to qualified arborists.

Poor pruning will lead to increased risk, increased maintenance, and increased liability. Low-bid pruning is like low-bid brain surgery. In both cases you want the best you can afford or the best you can find. Good pruning is often driven by good training and supervision, both of which cost the vendor more.

Maintaining the trees in a healthy condition will also help reduce risk. Horticultural recommendations follow in a separate recommendations section of this report.

Other Risks

Many other landscape features besides trees contribute to risk level on campus. One of the most common risk factors comes from root uplift of sidewalks or other paving. Trip and fall injuries are more common than limb drop injuries. The proper use of root barriers, selecting new trees appropriate to the planter size, placement of the trees relative to hardscape and underground utilities, and soil maintenance will all contribute to the roots' affect on paved surfaces.

Root barriers will only work effectively if the top edge is exposed and the barrier runs a long enough distance from the trunk. Lineal root barriers placed against the edge of surrounding hardscape provide more root room and protection than root barrier boxes. Keep in mind that roots can grow upward and do when they come to compacted soil or low oxygen conditions.

Most root barriers have vertical ribs to deflect roots down, but if the tree is within several feet of the barrier the roots are more likely to get under the barrier and come up again on the other side to do damage. Moisture barriers can be more effective root barriers if the top edge is protected by adjoining paving. Since they are smooth and do not have vertical ribs, it is more likely that roots will be turned horizontally rather than down and under the bottom edge. Seams are more common places where roots can cause a rupture and allow roots to go past. Since moisture barrier comes in long rolls, there are fewer seams necessary. Moisture barrier comes in several thicknesses and all sizes and thicknesses cost less than the corresponding lineal root barrier made for this purpose.

Selecting appropriate new species is important. There is only so much root barriers can do. Roots can exert great force and large trees have large roots with the ability to exert horizontal and vertical pressure through the barrier to adjoining hardscape or utilities. A Shamel ash, for instance, even several feet from a barrier will eventually move a concrete pad or sidewalk.

Specific Hazard Findings

Only two of the trees, 765 & 778 were noted as being considered hazardous. A large coral tree and a large oak were considered hazardous because of their weak structure and location relative to how often the area in the strike zone is occupied. Since the school was not in session, this was not a very informed judgement. Much of the hazards on campus are hard to quantify. A number of trees were noted to be significantly decayed. However, to know if the decay was serious enough to warrant removal or if hard pruning would help, more study is needed. There are several formulas used to calculate remaining strength in a trunk or limb, but the general rule is that if more than one third the cross section of the trunk or limb is decayed too much strength has been lost. One third of the trunk decayed in the center may not be as critical as one third on one side, and one third with good compartmentation is not as critical as one third that is continuing to spread. To make this determination or perform the calculations requires testing the extent of decay, which is outside the scope of my assignment.

Many trees also have scars where limbs have torn out in the past. A large limb fell from an ash tree in the main quad, but as far as I know no one was injured. Good fortune cannot be counted on in the future. As trees age the limbs that fall are likely to be larger and even more likely to fall.

Many areas are compacted or get shallow watering, which leads to shallow root systems and trees that are more likely to blow over. Lawn areas tend to become compacted due to weekly lawn mowing and daily foot traffic on moist or wet soil. Dry soil provides better grip for tree roots. Trees in wet soil with shallow root systems are significantly more apt to blow over. While mulching will reduce the water consumption of the trees and eventually create deeper root systems, during the years of improvement the trees will still be more apt to blow over. After the initial primary roots are formed, they stay in the same place. As a result it is important to protect a large area around new trees from compaction.

The oaks along the east and south edges of the campus are in 4 or 5-foot cutouts and have lifted and are lifting the sidewalk. These are city street trees, but this sidewalk is heavily used by students and puts them at risk. It should be noted that the proximity of many other trees to paving will cause lifting or buckling of sidewalks and paving at some time in the future. When sidewalk or paving repairs are made a consulting arborist should be contacted to verify that proposed root cutting will not destabilize the trees nearby. The high school would not benefit by transferring a trip and fall risk into a tree failure liability.

These oaks are also growing very long limbs that will be increasingly likely to fail. Light reduction pruning (<4” cuts) at the branch ends can reduce this risk.

Lion-tail pruning was noted in a large number of trees. This is an indication of poor quality work. This type of pruning concentrates weight on branch ends and causes less branch taper, leading to more limb failures. In addition, pruning that ignores serious defects and just makes the trees look pruned, does more harm than good and leaves the defects to become more serious over time, but harder to correct.

Recommendations

Matrix of Recommendations

Tree#	Species	DBH	Wd.	Clearance radius	Pruning	Comments
1	Jacaranda mimosifolia	10	15	7.5	Train	Cod, bare soil
2	Quercus agrifolia	8	20	6	Reduce and subordinate	Cod inc Sh Xing, bare soil
3	Quercus agrifolia	26	46	26	Reduce dogleg	OL DL, bare soil
4	Quercus agrifolia	34	50	34	Reduce and subordinate	Cod Lt DL EH, bare soil
5	Quercus agrifolia	22	40	22	Restore original grade	Deep TO OL
6	Quercus agrifolia	40	60	40	Reduction	Cod inc CrS Xing
7	Quercus agrifolia	24	50	24	Restore original grade	Deep TDk Db
8	Quercus agrifolia	26	50	19.5	Reduction cut	Cod EH, Ivy over RC
9	Quercus agrifolia	34	50	25.5	Remove ivy, reduction	OL EH, Ivy over RC
10	Quercus agrifolia	28	40	28	Remove ivy, reduction, Test Dk	OL cod TDk, Ivy over RC
11	Quercus agrifolia	29	46	21.8	Reduction cut	Cod EH, Ivy over RC
12	Quercus agrifolia	26	50	19.5	Balance + reduction cut	Leans over S/W cod Lt EH, Ivy over RC
13	Quercus agrifolia	21	45	21	Reduce and subordinate	Cod OL TDk deep, Ivy over RC
14	Quercus agrifolia	26	50	26	Wait	Db Sp S/W lift Xing cod, bare soil
15	Quercus agrifolia	34	50	34	Reduction cut	Cod EH S/W lift, bare soil
16	Quercus agrifolia	27	40	20.25	Balance + reduction, mulch	TDk EH, bare soil

Tree#	Species	DBH	Wd.	Clearance radius	Pruning	Comments
17	Quercus agrifolia	33	50	26	Reduce dogleg	mCod DL Sh
18	Quercus agrifolia	22	35	22	Reduction + dead wood + Dk tests	Cr deodar TDk SDb DW, roots cut?
19	Quercus agrifolia	35	60	35	Reduction cut + dead wood	Cod Sh EH 2large DW
20	Quercus agrifolia	25	50	25	reduce and subordinate	Cod inc Tinj TDk EH 1sRF
21	Quercus agrifolia	27	45	27	Clear roots by valve box, test Dk	OL TDk Cr deodar, valve box and drain line 2close
22	Quercus agrifolia	25	40	25	Balance + reduction	OL DW Sh 1s EH 1sRF
23	Quercus agrifolia	50	70	50	Ramp S/W over roots, subordinate	mDb S/W lift cod inc CrS Sh, gutter lifted
24	Quercus agrifolia	26	40	19.5	balance + reduction, remove ivy, test Dk	TDk cod 1s
25	Quercus agrifolia	18	24	18	wait	Sh Sp
26	Quercus agrifolia	31	45	31	Reduction cut	Cod Sh EH EW
27	Quercus agrifolia	26	50	26	Balance + reduction	Cod 1sRF rib mLean EH deep
28	Quercus agrifolia	21	50	15.75	reduce and subordinate	Cod Lt EH DLS 1sRF SDk
29	Quercus agrifolia	30	50	22.5	reduce and subordinate	Cod Lt EH DW 1sRF
30	Magnolia grandiflora	21	30	15.8	ramp S/W over roots	Sp epi S/W lift mDb
31	Cedrus deodara	20	50	20	wait	OL Sp cod S2big deep
32	Cedrus deodara	32	50	32	Reduction cut	2long OL
33	Callistemon viminalis	12	25	12	balance	mlean Sp 1s cod inc Sh, bare soil
34	Pittosporum rhombifolium	12"b	12	10	Keep small	S-inc Sp OL Sp, bare soil
35	Pittosporum rhombifolium	13	10	13	Subordinate	Cod inc OL
36	Washingtonia robusta	75'th	90	4	Only cut dead fronds, if any	gaffed
37	Cedrus deodara	38	50	38	Reduction	2long S-brk
38	Calocedrus decurrens	23	20	23	Dead wood	Db mLean cod top, bare soil
39	Afrocarpus falcatus	14	20	14	balance	Cr #40 1s, bare soil
40	Afrocarpus falcatus	25	40	25	Subordinate	Cod inc, bare soil
41	Thuya o	10	18	10	Restore original grade, balance	Deep leans out FC B-inj, bare soil
42	Afrocarpus falcatus	26	35	26	reduce and subordinate	Cod inc 2long, bare soil
43	Callistemon viminalis	13	15	13	Wait	Cod inc Db Sp, bare soil
44	Ficus m. Nitida	25	32	18.75	Balance + reduction cut	Cr cod inc CrR, brk wall, 1s mLean

Tree#	Species	DBH	Wd.	Clearance radius	Pruning	Comments
45	Ficus m. Nitida	16+16	20	18	Balance + reduction cut	Cr cod inc Xing 1s mLean
46	Ficus m. Nitida	18+17	30	20	Balance + reduction cut	Cr cod inc 1s leans out
47	Cedrus deodara	29	50	29	Reduction cut	Cr #46 2long OL cod top
48	Afrocarpus falcatus	11	20	11	Reduction cut	1sRF Cr #49
49	Pinus canariensis	33	50	24.75	Reduction cut	2long Hd DL
50	Afrocarpus falcatus	13	20	13	reduction cut	Near roof edge
51	Afrocarpus falcatus	20	30	20	Reduction cut	On root edge, Sh
52	Afrocarpus falcatus	5	13	4	Restore original grade	Deep Sp mLean, bare soil
53	Afrocarpus falcatus	16	24	16	Reduction cut	On roof cod, bare soil
54	Afrocarpus falcatus	14	20	14	wait	In enclosure, pale cod top, bare soil
55	Afrocarpus falcatus	13	16	13	reduction by roof	Sp on roof, bare soil
56	Afrocarpus falcatus	11	16	11	reduction by roof	Sp near roof 1s Sp, heavy fruit, bare soil
57	Afrocarpus falcatus	4.5	10	4.5	Restore original grade	Deep top'd Sp, bare soil
58	Afrocarpus falcatus	20	20	20	reduce and subordinate	Cod on roof, bare soil
59	Afrocarpus falcatus	18	25	18	Subordinate	Cod top, bare soil
60	Quercus agrifolia	32	45	24	Restore original grade, reduction	Deep EH P:
61	Afrocarpus falcatus	28	40	28	Reduction cut	CrR cod TO
62	Afrocarpus falcatus	28	50	28	Okay	Cod FC CrR, bare soil
63	Quercus agrifolia	4.5	10	4.5	Okay	B-inj leans CrS
64	Afrocarpus falcatus	9	25	7	Restore original grade, subordinate	Deep cod top, bare soil
65	Chitalpa tashkentensis	3.7	12	3	Reduction cut	1sRF mLean staked
66	Afrocarpus falcatus	22	40	22	Reduction cut	Cod inc near roof pale, heavy fruit, bare soil
67	Afrocarpus falcatus	38	50	38	reduce and subordinate	Cod Xing, cross fused crotch, 2long
68	Lagerstroemia indica cv	3.7	9	2.8	Train	Cod CrS MB, bare soil
69	Lagerstroemia indica cv	3.8	10	2.9	Train	Cod CrS, bare soil
70	Ficus m. Green Gem	12	48	9	Reduction cut	Cod CrS Lt EH Sh, bare soil
71	Jacaranda mimosifolia	4+3+5+3	20	8	Train	Cod CrT
72	Magnolia grandiflora	5.5	15	4.1	Train	Sp 1sRF
73	Fraxinus uhdei	34	35	25.5	Remove	Cod, roots cut?, OL, RF fills planter

Tree#	Species	DBH	Wd.	Clearance radius	Pruning	Comments
74	Fraxinus uhdei	16	30	12	Remove	Cod mGird topDb
75	Fraxinus uhdei	30	45	22.5	Remove	Cod epi Hd DL CrS
76	Fraxinus uhdei	22	45	16.5	Remove	Cod Hd DL mDb seedy
77	Fraxinus uhdei	28	45	21	Remove	mGird Sh cod CrS Hd DL, bare soil
78	Afrocarpus falcatus	6.5	16	5	Remove	Deep cod top, bare soil
79	Fraxinus uhdei	20	40	15	Remove	Cod inc CrS Hd, bare soil
80	Fraxinus uhdei	24	24	24	Remove	B-inj Hd Db cod FC, bare soil
81	Fraxinus uhdei	21	22	15.75	Remove	Cod inc seedy Hd DL, bare soil by open planter
82	Fraxinus uhdei	30	40	22.5	Remove	CrR cod inc
83	Fraxinus uhdei	38	50	28.5	Remove	CrR cod inc mTDk Hd DL
84	Afrocarpus falcatus	27	48	27	reduce and subordinate	Cod mLean CrR DL
85	Juniperus c. Torulosa	18	18	13.5	Okay	Twisted trunk
86	Parkinsonia aculeata	5"b	18	9	Remove suckers	Suckers
87	Tipuana tipu	12	30	9	ramp S/W over roots, crown restore	Sh Hd epi S/W lift, bare soil
88	Tipuana tipu	12	35	9	reduce and subordinate	Cod inc Xing eipi 1sRF, bare soil
89	Tipuana tipu	15	40	11.25	Train	Cod Db DL Xing epi
90	Afrocarpus falcatus	30	60	30	Balance + subordination	Sh mLean cod, bare soil
91	Ficus microcarpa	15	35	11.25	Balance + reduction	1s Sh Lt FC EH, bare soil
92	Quercus suber	22	35	16.5	Reduction cut	CrR T-inj 2x, EH S-brk
93	Quercus suber	15	32	11.25	Restore original grade	Deep CrR
94	Quercus suber	15	30	15	Restore original grade, subordinate	Deep CrR cod
95	Quercus suber	17	33	17	Reduction cut	CrR cod deep
96	Quercus suber	17	25	17	Reduction cut	CrR T-bow
97	Quercus agrifolia	8	24	5	space scaffolds, subordinate	CrR CrS cod
98	Quercus suber	15	30	11.25	space scaffolds, reduction	CrR CrS cod
99	Quercus suber	23	45	23	space scaffolds, reduction	CrR CrS cod, outer Db
100	Quercus suber	28	44	21	space scaffolds, reduction	CrR CrS deep, paving lifted, cod EH
101	Quercus suber	23	42	17.25	Reduction cut	CrR cod deep paving lifted
102	Eucalyptus globulus	34	35	34	Reduction cut	CrR TB

Tree#	Species	DBH	Wd.	Clearance radius	Pruning	Comments
103	Eucalyptus camaldulensis	18	55	18	Reduction cut	CrR cod 2long
104	Ficus m. Green Gem	9	30	6.75	Control size	Sup CrR mLean
105	Ficus m. Green Gem	8+5	24	8	Subordinate	Cod inc, many ants
106	Brachychiton rupestris	25	10	19	Subordinate	Cod
107	Eucalyptus polyanthemos	8	26	8	Restore original grade	Deep cod T-bow
108	Pinus pinea	32	45	24	Balance + reduction	30° off horizontal, EH mSp
109	Ficus rubiginosa	22	50	16.5	Reduction cut	TO 2long EH SP
110	Schinus molle	6	18	5	Train	mLean 1sRF
111	Schinus molle	3.8	12	3	Restore original grade, space limbs	Deep CrS Cr #109
112	Pinus halepensis	5	12	3.75	Train	Cod S-DL
113	Pinus halepensis	30+25	65	30	Reduce long limbs	OL TO 2long
114	Celtis sp.	6+6+8+5	40	12	Crown restoration	Stmp sprouts, T-inj T-cut off.
115	Quercus agrifolia	25	50	25	reduce and subordinate	Cod inc RC-covered 2long
116	Morus alba	17	45	12.75	Reduction + subordination	T-bow 1s TDk bleeding
117	Phoenix canariensis	40'th	24	5	Deep water, cut dead fronds only	Dry
118	Phoenix canariensis	45'th	24	5	Deep water, cut dead fronds only	Dry
119	Pinus canariensis	18	20	13.5	Okay	Damaging wall, 1s Cr #120
120	Washingtonia robusta	65'th	12	4	Only cut dead fronds, if any	gaffed
121	Pinus canariensis	15	12	11.3	Okay	Okay
122	Pittosporum undulatum	6	18	5	Reduction cut	T-inj cod OL
123	Pittosporum undulatum	5.5	15	5.5	reduce and subordinate	Cod mLean OL
124	Ficus m. Nitida	26	45	19.5	reduce and subordinate	Cod inc Sh Xing
125	Phoenix canariensis	30'th	24	5	Transplant	Cr #126
126	Phoenix canariensis	32'th	24	5	Transplant	Cr #125
127	Phoenix canariensis	29'th	24	5	Transplant	Cr #126 dry, holds up #130
128	Ficus m. Nitida	30	45	22.5	ramp S/W over roots	S/W lift Sh TO
129	Quercus agrifolia	3.6	11	3.6	Train	Sp shaded T-DL
130	Quercus agrifolia	14	30	10.5	Balance + reduction	1s leans on #130, 70° lean
131	Quercus agrifolia	16	32	12	Balance + reduction	Gird by fence, edge of road, cod 1s

Tree#	Species	DBH	Wd.	Clearance radius	Pruning	Comments
132	Phoenix x canariensis	32'th	25	5	Deep water	Bow'd, dry
133	Phoenix x canariensis	30'th	25	5	deep water	mBow'd, dry
134	Eucalyptus polyanthemos	30	45	30	Balance + reduction	1s lean 20° off vertical, cod lifts D/W
135	Cupaniopsis anacardioides	11	24	9	reduce and subordinate	Cod inc TO, OL Hd DL
136	Cupaniopsis anacardioides	11	26	9	Crown restoration	Cod Hd DL CrR
137	Cupaniopsis anacardioides	10	22	8	Reduction	Cod S-inj OL Hd DL Cr #138 CrR Suppressed
138	Corymbia citriodora	31	35	31	Ramp D/W over roots	Lifts D/W CrR
139	Cupaniopsis anacardioides	13	24	10	Reduction	CrR cod Suppressed
140	Callistemon viminalis	13	16	13	Reduction	CrR cod Hd DL
141	Callistemon viminalis	13	15	13	Reduction	CrR cod inc Hd DL
142	Callistemon viminalis	8	14	8	Reduction	CrR cod inc T-inj
143	Callistemon viminalis	8	10	8	Remove	Deep 45° T-DL cod inc
144	Callistemon viminalis	10	10	10	Restore original grade, subordinate	Deep OL cod inc Xing
145	Callistemon viminalis	9	6	9	Restore original grade, subordinate	Deep DL cod inc Xing
146	Olea europea	32	48	16	ramp S/W over roots, space limbs	Sh S/W lift CrS
147	Washingtonia robusta	50'th	9	4	Reduction cut	2long
148	Morus alba	30"b	40	28	Remove ivy	ivy covered
149	Quercus ilex	15	42	11.25	Remove ivy	Ivy on T
150	Morus alba	18	38	13.5	Remove	1s over neighbor, on wires, TDk
151	Quercus agrifolia	30	45	22.5	Remove ivy, reduction	ivy on T, cod EH
152	Quercus agrifolia	30	50	22.5	Balance + subordination	Cod inc leans
153	Quercus agrifolia	19	40	14.3	Remove trunk on the roof, subordinate	Cod inc 1T on ground, 1s on neighbor's roof
154	Pinus torreyana	21	40	15.75	Reduction cut	2long, pitch tube=turpentine beetle, Cr@157
155	Cupressus glabra	21	38	21	balance	Cod lean
156	Heteromeles arbutifolia	7+4+4+3	25	10	Train	Cod Xing DL Sup
157	Cupressus glabra	10"b	18	12	Balance + reduction	45° lean sup
158	Celtis sp.	30"b	50	30	reduce and subordinate	Cod inc Xing eipi 1sRF, bare soil
159	Pinus torreyana	15	25	11.3	Subordinate	Cod inc Cr #154
160	Pinus torreyana	24	45	18	reduce and subordinate	Cod Xing 2long

Tree#	Species	DBH	Wd.	Clearance radius	Pruning	Comments
161	Pinus torreyana	13	30	9.75	Reduction cut	Cr#160 shaded out lower half
162	Prunus lyonii	13"b	20	13	Subordinate	Cod inc sup
163	Washingtonia robusta	60'th	9	4	Only cut dead fronds, if any	gaffed
164	Washingtonia robusta	60'th	9	4	Only cut dead fronds, if any	gaffed
165	Quercus agrifolia	23	50	17.25	Balance + reduction	1s T-bow Cr #164
166	Pinus eldarica	23	45	17.25	Balance + reduction	1s T-bow, edge tree
167	Celtis sp	4+3	25	5	Subordinate	Cod sup
168	Arbutus unedo	4	18	4	Balance + reduction	1s T-bow sup
169	Pinus halepensis	12	23	9	Balance + reduction	1s lean over courts, cod inc DLT
170	Celtis sp.	14	30	16	Balance	Sh 1s, edge tree
171	Cedrus deodara	40	50	40	Balance + reduction	Cod inc 1s, edge tree
172	Platanus racemosa	11	25	11	Reduce surrounding trees	OL Cr #173 sup
173	Platanus racemosa	36	45	36	Balance + subordination	Leans, cod top, Sh
174	Agathis robusta	12"b	20	10	Subordinate	Cod inc deep
175	Platanus x Acerifolia	30	30	30	Test Dk	OL TDk @ base, inner protected grove
176	Sequoia sempervirens	16+8	35	20	Reduce surrounding trees	Cr
177	Sequoia sempervirens	18	30	18	Reduce surrounding trees	Cr
178	Afrocarpus falcatus	21+24	45	30	Balance + reduction	Cr Cod m1s
179	Lagerstroemia indica cv	7.5	20	5.625	wait	FC T-bow
180	Lagerstroemia indica cv	9	22	6.75	Balance	FC 1s
181	Albizia julibrissin	18"b	24	16	Reduction	Hd Dk
182	Pinus halepensis	27	40	20.25	Balance + reduction	1s S-crk
183	Ginkgo biloba	14	20	10.5	Okay	Okay
184	Bauhinia purpurea	6.2	16	5	Balance + reduction	Cod 40° off horizontal, 1s, over walk
185	Pinus roxburghii	17	20	12.75	Okay	Cr OL
186	Pittosporum undulatum	5+6	20	7	Subordinate	Cod inc 1sRF
187	Pinus roxburghii	22	25	16.5	Okay	Cr OL, ivy up trunk
188	Cedrus deodara	33	60	33	Reduction	2long
189	Jacaranda mimosifolia	25	50	18.75	Subordinate	Cod inc OL DL CrR 1s

Tree#	Species	DBH	Wd.	Clearance radius	Pruning	Comments
190	Araucaria columnaris	17	12	17	Remove #191	OL Cr #189 & 190, strangled by #191
191	Ficus m. Nitida	29	65	65	Remove, don't damage #190	Rotation hazard over greenhouse, 30° Off horizontal, Sh
192	Pittosporum undulatum	24"b	32	22	Crown restoration	Cod, lost half, FC
193	Liquidambar styraciflua	20	40	15	Test, if okay crown restoration	mDb Xylella? Hd DL
194	Magnolia grandiflora	22	40	16.5	Reduction	2long Sp epi
195	Syagrus romanzoffianum	24	24	4	Remove	Pencilled, gaffed, dry
196	Ficus utilis	36	60	27	Subordinate	Cod inc, air roots, Cr
197	Washingtonia robusta	80'th	9	4	Okay	Cr gaffed
198	Ficus nekbudu variegata	9	40	6.75	Balance + reduction	1s 2long Cr
199	Ficus nekbudu	27	60	20.25	Reduction	Cr #198 & 200, 2long
200	Washingtonia robusta	50'th	12	4	Only cut dead fronds, if any	Sml head, gaffed
240	Pittosporum rhombifolium	10+10+8	25	15	reduce and subordinate	Cod inc Xing OL
241	Pittosporum rhombifolium	6+7	14	8	Wait	Cod inc Xing OL
242	Pittosporum undulatum	10+10+10	26	20	reduce and subordinate	Cod inc Xing OL
243	Jacaranda mimosifolia	2+3+4	17	5	Balance + reduction	Cod inc 1s
244	Pittosporum undulatum	17	28	17	reduce and subordinate	Cod inc T-inj gird epi
245	Pittosporum undulatum	7+8	18	8	wait	Lt OL FC cod, bare soil
246	Jacaranda mimosifolia	24	50	18	Reduction	Db Sh cod 2long DL
247	Ulmus parviflora	24	50	24	Reduction	Cod EH, bare soil
248	Thuja occidentalis	5+9+10	16	15	Balance + reduction	1s cod inc, bare soil
249	Thuja occidentalis	5+6+5+5+6	18	15	Subordinate	Cod inc 2Ts cut, bare soil
250	Thuja occidentalis	4+4+4+3+3	16	8	Subordinate	Cod inc, bare soil
251	Thuja occidentalis	2+3+4+4	12	7	Wait	Cod inc, 4Ts cut, bare soil
252	Pittosporum undulatum	12	20	12	Balance + reduction	60° lean Sh 1s
253	Koelreuteria paniculata	13	18	10	Restore original grade	DLt TDk S-Dk deep
254	Koelreuteria paniculata	11	20	8.3	Subordinate	Cod
255	Robinia pseudoacacia	9	9	9	remove	Db Dk Sp
256	Robinia pseudoacacia	10+10	45	12	Subordinate	Cod inc
257	Koelreuteria paniculata	24	40	18	reduce dogleg, test	TDk Lt cod DLS

Tree#	Species	DBH	Wd.	Clearance radius	Pruning	Comments
258	Robinia pseudoacacia	10	14	10	Remove	Db TDk cod MB Remove
259	Koelreuteria paniculata	19	40	14.25	Keep turf back 5'	T-inj Lt cod MB Sh
260	Koelreuteria paniculata	17	36	17	wait	Db cod MB Sh
261	Robinia pseudoacacia	26	45	26	Cable, reduce and subordinate	Cod seam Sh MB Xing DL
262	Juniperus c. Torulosa	20+22	30	28	reduce and subordinate	Cod inc TO 1sRF
263	Ilex cornuta Burfordii	4+4+6+3	14	9	Okay	Cod OL
264	Juniperus c. Torulosa	22	20	16.5	reduction	Db 1sRF
265	Magnolia grandiflora	30	60	22.5	Light crown restoration	Lt epi mDb dry, in donkey yard
266	Phoenix canariensis	65'th	65	5'	Cut dead fronds only	Good
267	Rauvolfia javanica	18	55	13.5	Remove ivy	ivy covered
268	Pinus halepensis	45	70	33.75	Reduction cut	2long cod
269	Brachychiton discolor	16	25	12	Reduction cut dogleg +	DLS 2long, in chicken yard
270	Quercus agrifolia	28	40	21	Reduction cut + dead wood	2long Xing, lower limb Db, in chicken yard
753	Celtis sp	10+10+10	40	20	Subordinate	Cod DL epi
754	Chorisia speciosa	20	45	15	reduce and subordinate	Cod inc 2long, lifts S/W
755	Cocculus laurifolia	10	25	10	Balance + reduction	1s Xing, on lath house
756	Melaleuca quinquenervia	32	45	24	Reduction	1sRF mGird
757	Melaleuca quinquenervia	36	60	27	Move wall	Cod inc, on wall
758	Quercus agrifolia	15+15	60	15+15	reduce and subordinate	Cr #757, cod inc, OL
759	Archontophoenix cunninghamiana	35'th	20	5	Reduce surrounding trees	Thin T
760	Archontophoenix cunninghamiana	35'th	20	5	Reduce surrounding trees	Thin T
761	Platanus x Acerifolia	29	65	29	space scaffolds, subordinate	CrS, Db top, cod
762	Phoenix reclinata	12Ts<20'	22	6	cut dead fronds only, use sterile tools	Needs cleaning
763	Ficus mysorensis	17+18+20	45	30	Balance + reduction	1s, on lath house
764	Cassia leptophylla	12	30	12	Balance + reduction	1s cod Cr #763 & 765
765	Erythrina caffra	36	60	30	Crown restoration ASAP	Cod inc Xing DL epi CrS, hazard
766	Cassia leptophylla	20	35	20	Reduction	Cr #767 OL
767	Ficus macrophylla	34	60	25.5	Reduction	Cr #766 Sh

Tree#	Species	DBH	Wd.	Clearance radius	Pruning	Comments
768	Ficus m. Nitida	6+7+10	45	10	Subordinate	Cod inc Cr #767 1s
769	Eucalyptus globulus	40	35	40	spray TB, mulch & water	TB, top Db
770	Eucalyptus globulus	42	40	42	spray TB	TB Sp
771	Eucalyptus globulus	40	35	40	spray TB	TB Sp
772	Tipuana tipu	15	50	15	reduce and subordinate	Cod inc Xing, bare soil
773	Tipuana tipu	14	45	14	Crown restoration	mXing Hd DL Sp, bare soil
774	Tipuana tipu	9	40	9	Subordinate	Cod 2long Sp, bare soil
775	Tipuana tipu	18	45	18	Reduction	Cod CrR, sml CO
776	Magnolia grandiflora	7	17	6	Train	Cod epi sml CO
777	Magnolia grandiflora	9	20	8	Train	Cod epi sml CO
778	Eucalyptus globulus	48	70	48	Remove	Cod inc TB, SB DC, small space, 2long & horizontal = HAZARD
779	Pyrus c. Bradford	5.5	12	5.5	Remove	Cod inc
780	Tipuana tipu	22	60	16.5	Crown restoration	Xing cod DL 2long
781	Pistachia chinensis	10	40	7.5	Restore original grade, reduction	Deep 2long
782	Pistachia chinensis	7.5	35	5.625	Restore original grade, subordinate	Deep cod
783	Pistachia chinensis	12	40	9	Restore original grade, subordinate	Deep cod inc 2long Xing
784	Quercus agrifolia	32	40	24	Reduction	DLS 2long EH cod
785	Ulmus parviflora	28	50	28	Okay	Cod, root galls, @ field house
786	Eucalyptus globulus	39	40	39	increase root space, mulch, spray	mRDk cod, sml CO, TB, bare soil
787	Eucalyptus globulus	38	50	38	spray TB	Sp TB cod inc epi
788	Quercus agrifolia	27	45	27	Enlarge CO, test	TDk, sml CO, Sp
789	Quercus agrifolia	24	55	24	Reduction	2long, sml CO, SP DL cod
790	Quercus agrifolia	28	55	28	remove soil piles, reduction, test	TDk Lt EH Sp cod DL, soil piles in RZ
791	Quercus agrifolia	36	55	27	Reduction	EH 2long cod
792	Quercus agrifolia	33	60	24.75	Reduction	EH 2long mTDk
793	Quercus agrifolia	32	60	24	Reduction	EH 2long mTDk cod
794	Quercus agrifolia	27	55	20.25	Reduction	EH 2long TDk
795	Quercus agrifolia	36	60	27	Reduction	EH 2long TDk
796	Quercus agrifolia	35	60	26.25	Reduction	EH 2long TDk, in ivy

Tree#	Species	DBH	Wd.	Clearance radius	Pruning	Comments
797	Quercus agrifolia	13	20	13	balance + reduction, remove ivy, test	TDk 1s cod sup, in ivy
798	Quercus agrifolia	24	55	24	Restore original grade, subordinate	Deep Lt Cod sup, in ivy
799	Ligustrum lucidum	11	12	11	Remove	DLT 1s 1sRF DL concrete adjoining base
800	Ligustrum lucidum	12	14	12	Remove	DLT 1s 1sRF DL Db

Gaps in the tag number sequence are due to lack of full tag sets beyond 200.
Arboricultural terms are defined in the Glossary of this report.

Removals

Tree#	Species	DBH	Health	Structure	Pruning	Comments
73	Fraxinus uhdei	34	B	C	Remove	Cod, roots cut?, OL, RF fills planter
74	Fraxinus uhdei	16	C-	C	Remove	Cod mGird topDb
75	Fraxinus uhdei	30	C	C-	Remove	Cod epi Hd DL CrS
76	Fraxinus uhdei	22	C	C-	Remove	Cod Hd DL mDb seedy
77	Fraxinus uhdei	28	C	C	Remove	mGird Sh cod CrS Hd DL, bare soil
79	Fraxinus uhdei	20	B	C	Remove	Cod inc CrS Hd, bare soil
80	Fraxinus uhdei	24	D	C-	Remove	B-inj Hd Db cod FC, bare soil
81	Fraxinus uhdei	21	C-	C-	Remove	Cod inc seedy Hd DL, bare soil by open planter
82	Fraxinus uhdei	30	C	C	Remove	CrR cod inc
83	Fraxinus uhdei	38	B	C	Remove	CrR cod inc mTDk Hd DL
102	Eucalyptus globulus	34	C	C	Remove	CrR TB
143	Callistemon viminalis	8	C	D	Remove	Deep 45° T-DL cod inc
150	Morus alba	18	B	C-	Remove	1s over neighbor, on wires, TDk
157	Cupressus glabra	10"b	D	D	Remove	45° lean sup
191	Ficus m. Nitida	29	B	C	Remove	Rotation hazard over greenhouse, 30° Off horizontal, Sh. Be careful -don't damage #190
195	Syagrus romanzoffianum	24	C	C	Remove	Penciled, gaffed, dry
255	Robinia pseudoacacia	9	D	D	remove	Db Dk Sp
258	Robinia pseudoacacia	10	D	D	Remove	Db TDk cod MB Remove
769	Eucalyptus globulus	40	C-	C	Remove	TB, top Db
770	Eucalyptus globulus	42	C	C	Remove	TB Sp
771	Eucalyptus globulus	40	C	C	Remove	TB Sp
778	Eucalyptus globulus	48	C	C-	Remove	Cod inc TB, SB DC, small space, 2long & horizontal = HAZARD
779	Pyrus c. Bradford	5.5	C-	D	Remove	Cod inc
786	Eucalyptus globulus	39	C	C	Remove	mRDk cod, sml CO, TB, bare soil
787	Eucalyptus globulus	38	C	C	Remove	Sp TB cod inc epi
799	Ligustrum lucidum	11	D	C-	Remove	DLT 1s 1sRF DL concrete adjoining base
800	Ligustrum lucidum	12	D	C-	Remove	DLT 1s 1sRF DL Db

Pest and Disease

Few significant pest or disease problems were noted. More pests will be apparent in Spring, especially those that like soft growth, like aphids. The *Ficus m. 'Nitida'* almost always are infested by thrips, but a new pest and a new disease have arrived. The blue gum eucalypts are infested by tortoise beetles and possibly snout beetles. The defoliation causes more soft growth, which they prefer. This cycle is likely to wear down the trees' health.

Decay is an infection of a pathogenic fungi that decomposes cellulose or lignin. There is no treatment for internal decay. However, a healthy tree has a greater ability to compartmentalize decay and prevent or minimize its spread. A fair number of trees were observed to be decaying. Much of this originated from poor pruning cuts.

Several species on campus, like sweet gum and olive, are susceptible to *Xylella fastidiosa*, but no firm symptoms were observed.

Decay, Mechanical Injury and Wind Damage

A number of the trees have circling roots or shallow roots, which affects their stability. Cutting roots of mature trees can lead to heart rot, basal decay, or toppling. Some root cutting carefully done can be safe. Note the clearance radius in the matrix above. Vertical mulching may slightly increase the rooting depth and volume, but not by more than 5 percent per application, therefore it should be repeated over several years. Trees with severely circling or shallow roots are recommended for removal. Many trees are in turf or adjoining turf, which leads to shallow rooting. Regular turf aeration and occasional vertical mulching or radial trenching will help to some degree.

Root space is limiting for many trees. Small open areas with a large tree or trees are common on this campus. Many times a small area bordered by a sidewalk has turf on the other side and if roots grow under the walk and get the water and fertilizer intended for the lawn, they quickly thicken and develop breaking the sidewalk, e.g. the oaks along the south edge of the campus. If the roots cannot grow under the walk because of compaction or obstruction the life span of the tree will be cut short. The Shamel ash are in small open areas and have outgrown the space provided. It is time to replace them. Trees in small planters or cutouts should be selected to be small species and grow slowly. Linking the cutouts under the paving by using structural soil or trenches of low density soil spanned by thickened concrete can allow the use of somewhat larger species.

The past pruning or lack of pruning of the trees at North Hollywood High School has also reduced their life span. Many trees here have been either poorly trained or unskillfully pruned over the years, and have therefore grown up with less than ideal form and strength. Proper training would have corrected the frequent development of codominant leaders and overly long, end-heavy side branches. Instead lion-tail pruning has concentrated weight at the end of long

limbs. Heading cuts have produced dog-legs and epicormic shoots, which are poorly attached. Flush cuts are likely to lead to decay.

Future pruning should be done by selected bidders and supervised by an on-site experienced certified arborist. Many trees will need two or more crown restoration pruning sessions over several years to correct structural defects. Therefore, the same bidder and crew, if possible, should be used on all occasions to follow through on the plan. Removal of hazardous limbs, leaders or trees and shortening overly long side branches should be done prior to or in lieu of more ornamental pruning or lacing. Spotters or supervisors should check from below that maximum foliage removal is not exceeded.

These issues are not the limiting factors and are discussed as they impact the condition of the trees. There are two main limiting factors: one is the size and age of the trees relative to the planting spaces and therefore the need for periodic replacement; and the second is the fact that the planned relocation of paving, planters, buildings in a new master plan will necessitate the removal or relocation of certain trees. The health, structural condition, access and value will determine which trees are worthwhile to protect and reuse. All these issues are summed up in the matrix above. Specific information regarding the proximity of planned improvements to specific trees will be necessary to prepare a specific tree preservation plan.

Soil Improvement

Typically, soil compaction happens so slowly and imperceptivity that it becomes obvious only after it has progressed too far. The best and most reliable procedure for preventing it is to specify compaction-resistant soils in the redesign process, together with other design elements to minimize foot traffic and compaction.

Compaction-resistant soils have a large proportion of coarse sand and little silt or clay. Soil with a large proportion of the latter elements is susceptible to compaction. A new engineered soil mix from Cornel University referred to as “gap-graded” or “structural soil” can be used in small planting areas, even under paving, but may be too expensive to use over large areas.

Adding organic matter in moderate amounts (4 to 5 percent by weight) will tend to diminish compaction. Organic matter lightens the soil, acts as a cementing agent and encourages organisms so necessary to loosening the soil. Further, organic matter contributes some nitrogen to the soil nutrient pool. Excessive organic matter, however, will cause settling.

Also useful in preparing new areas for planting to provide compaction resistance is a polymer known as PAM, by Complete Green Company (310-640-6815). Applied to the soil per directions PAM provides a more stable soil aggregate, less prone to compaction.

Vegetative cover, especially heavy turf, will tend to reduce soil compaction on a short term basis, but long-term mowing and use in wet soil conditions will increase compaction over drier type uses. Therefore, use-management, including closing wet turf areas after a heavy rain and delaying mowing, is probably the best way to avoid compaction. If such closings are planned, it is crucial to inform staff and students through bulletins or flyers.

A thick surface layer of mulch, especially wood chips, will reduce soil compaction. This method is very useful in heavily trafficked areas where turf is not maintained or needed. Surface mulching will also increase beneficial soil organisms, moderate fluctuations of soil moisture and temperature, improve soil structure and fertility, and increase the depth of roots. Vertical mulching, the drilling of 3 inch diameter or larger holes into the soil, can also increase the depth of roots.

- Auguring. A simple yet effective method is to auger twelve-inch holes on a 36-inch grid pattern to a depth of 36 inches, beginning beyond or between the main lateral roots and extending beyond the tree dripline if possible. The holes are immediately backfilled with a mixture of composted organic matter or other low-density amendment and fertilizer. Many fine roots will invade the holes by the end of the growing season following a spring auguring.
- Trenching. An old Chinese technique, this consists of a series of trenches dug radially from the trunk and located to avoid the major lateral roots. The trenches should be spaced approximately 30 to 45 degrees apart. The trenches are backfilled with soil moderately high in organic matter. Plan the trenches to begin outside the root plate, i.e. a radius of three times trunk diameter.
- Horticultural soils tests are needed to check for salts and primary nutrients. Sodium prevents good soil structure and aggravates soil compaction. Fertilizer and other recommendations should be based on the results. So-called "balanced" fertilizers should not be used unless and until recommended by a soil laboratory. The soil must be moist before any recommended fertilizer is applied. Surface mulching is recommended after fertilization.

Risk Reduction

Trees and other woody plants respond in specific and predictable ways to pruning and other maintenance practices. Careful study of these responses has led to pruning practices, which preserve and enhance the beauty, structural integrity and functional values of trees.

Trees grown with turf irrigation and fertilization need to be pruned on a two or three year cycle. The extra fertilizer given to the turf is taken up also by the trees and results in weaker wood, but produces extra foliage weight and wind resistance.

Adjoining structures and paving limit root spread. Trees are supported primarily by roots under tension. Trees that have limited root spread and high exposure to the wind are at greater risk and need special attention. Trees that grow on the south side of buildings often have the roots on the north side blocked by the foundation. If crown reduction pruning cannot adequately reduce the risk, removal should be considered. Trees such as the fern pines on the south side of the buildings are starting to grow above the buildings get hit by Santa Ana winds, but are restricted in rooting to the north by deep concrete foundations.

A good looking and safer branch pattern is difficult to obtain after years of neglect or improper pruning. Many limbs have grown too long and end-heavy. Epicormic shoots have developed into large limbs after heading older limbs. Many limbs have included bark at their attachment. Many mature trees are sensitive to severe pruning and should have no more than 20 percent foliage removed in one year. Studies have shown that even professional arborists have difficulty in estimating 20 percent. When measured, the amount they end up removing varies from 20 to 50 percent. Removing more than 20 percent of the foliage in a mature tree will often cause epicormic shoots, which will require further pruning. The corrective pruning that is needed must be tightly control and performed by highly skilled professionals.

Bidding documents and specifications must follow ANSI A-300 guidelines and International Society of Arboriculture *Best Management Practices, Pruning* and sample trees of each species should be pruned under a registered consulting arborist's direction before proceeding. A certified arborist must be on site during all pruning operations to supervise the remaining work.

After a successful bidder is selected a pre-job-start meeting should be held to walk through the planned pruning program. Once a sample tree of each species has been completed and the contractor demonstrates his understanding, approval is obtained and he may proceed.

Trees that require more than 20 percent foliage removal may need to have the lower priority pruning beyond 20 percent done next year. Certain trees are tolerant to severe pruning, such as healthy Ficus, Platanus, and Fraxinus, and may be pruned up to 50 percent removal if conditions dictate and a certified arborist approves, but expect shoot growth and plan to control it over the following two or three years. Removing dead, overly long, and poorly attached limbs should be accomplished first. Pruning that is less important to safety can be postponed if needed to stay below 20 percent foliage removal.

Climbing gaffs (spikes) should not be allowed, except in rare cases. The trees should be climbed by rope and saddle only. If, for cost reasons, the contractor is allowed to bring lift trucks onto the turf areas, the soil should be as dry as

possible. Palms should not be climbed using gaffs, but a climber may be set at the limit of a lift trunk and then climb using gaffs.

After pruning work is complete the entire turf area should be aerated using a turf aerator and augured as above in the General Soils Recommendations. Trees on the outside edge of a stand can be radially trenched as in the General Soils Recommendations.

Foot traffic should be directed around trees in turf by hedges, fencing or other means and twelve foot diameter mulch beds should be placed around each tree over 8 inch trunk diameter. The mulch beds must extend far enough to at least cover all surface roots so that they are not damaged by lawn mowers. Such injuries can lead to infection, decay and root failure. The mulch beds should be maintained at 2 to 3 inches deep. Use a coarse textured and well-composted organic product with particle sizes between ½ to 2 inches. The soil surface should be lightly scarified before placing the mulch. Mulch should not be piled against the trunk. This will improve the health and extend the life of the trees that receive this extra care.

All digging, trenching and tree removal should be carefully considered and controlled for its impact on the remaining trees. Trees and limbs newly exposed to the wind must be pruned according to the instructions of a registered consulting arborist. Landscape workers must be instructed not to cut roots without approval, and that approval based on the direction of wind and the density and structure of the tree canopy. Pipes and conduit should be laid below roots when possible. An AirSpade or AirKnife is a great tool to safely expose roots for this purpose.

Tree Risk Reduction Policy

Not being in a position to make policy for the school, I submit the following as suggested tree hazard reduction policy statement:

> "It is the policy North Hollywood High School to provide a safe environment for students, staff, and the public. In implementing this policy, grounds maintenance personnel will be instructed in recognition and prioritizing tree and landscape related hazards. Furthermore a plan will be developed to mitigate the hazards identified. This plan will be updated on a regular basis, through good record keeping, monitoring, and regular inspections."

The Plan

Based on the budget, a two-year, five-year, or even ten-year plan may be necessary. Based on the hazard rating and expense involved, mitigation may be spread over a reasonable period of time. Many hazards may be mitigated simply by moving a target (table or bench), or restricting access or parking. More expensive mitigation, such as pruning and paving repair should be accomplished in the order of the risk assessment.

Records

Good record keeping is important to monitoring the progress of a hazard reduction plan. Trees in turf, in crowded conditions, or in small planting spaces need regular care to keep them safe and healthy. To know those conditions are in fact improving, good inspections and record keeping must take place. The ISA "Tree Hazard Evaluation Form" should be used or adapted for use during the annual inspection. As this form is long and time consuming, it may be used as a model for a shorter form. Other hazards related to landscape, such as tripping hazards caused by tree roots, can be added to the form, as it conforms to the specific needs of the school. Keep records of the progress of the plan for hazard reduction – how the trees with higher hazard ratings have been or will be mitigated and when.

Monitoring

Monitoring should consist of comparing each season's actual mitigation against in the plan's schedule of pruning, removals, fencing, or pavement repair. Monitoring must include updating the plan and schedule depending on the results of regular inspections. Inspections will certainly add new items and change priorities, but without tracking your progress, improvement is uncertain and perhaps unlikely.

Recommended Schedule of Inspections

A thorough risk assessment should be scheduled prior to the beginning of school every year. Weekly drive through inspections should be scheduled. Any digging or trenching in the root zone should be inspected while the excavation is still open. After every strong Santa Ana wind, large trees should be checked for broken hanging limbs.

The Grounds Manager and key members of the maintenance crew should receive training in hazard recognition. A copy of ISA *Best Management Practices, Risk Assessment*, or *A Photographic Guide to the Evaluation of Hazard Trees in Urban Areas*, by Matheny and Clark, should be obtained, read and maintained in the office or library.

Hazard Response

A procedure for approval of prompt response when a new hazard is noticed is key to safety. A groundskeeper who notes a sudden change or storm damage in the tree population starts a chain of response. An arborist must be called to decide if the tree needs immediate removal or safety trimming. At the same time the area around the tree should be taped off to protect passers by. Law suits can run into the millions, but more importantly human life may be at risk.

General Discussion

The shallow compacted soils will limit the health and stability of the trees as much or more than any other factor. Many forests grow on thin soils less than a foot deep, however they are usually more continuous and provide shelter for each other. Roots of forest trees interlock and if they are the same species often fuse with each other. Many of the trees at North Hollywood High are root fused and interlocked and will provide adequate support for each other. However, if trenching, digging or tree removal breaks this bond, the risk of trees falling will increase dramatically. Roots provide more support under tension than compression. Therefore downwind removals are safer than on the windward side, because they are not providing wind protection for the canopies of downwind trees. Many of these locations are too small to remain in use or to have new sidewalks or curbs installed, such as along Magnolia. The only way to keep and preserve such trees would be to increase the planting space and eliminate parking, which may not be practical.

The oaks are a significant part of the overall tree palette and yet they are an inherently high risk tree. Overly long or poorly attached limbs have split out in the past and will be more likely to drop as the trees increase in age and size. In natural settings limb drop is seldom a concern, but on a heavily populated campus, North Hollywood High's staff must employ professional oversight and the best pruning practices to anticipate much of this limb drop and preemptively remove the limbs before they drop. Many of the oaks are also decayed and without accurate testing and prompt response a failure of one of these large trees could cause extreme consequences.

Because of the limited root space, life expectancy of these trees may be cut short. Limited root volume is the main reason the average life expectancy of street trees in Los Angeles is seventeen years. The Shamel ash trees in the main quad are in especially poor condition and have dropped limbs in the past. If they must be retained in the new design, plans should be calendared to replace at least twenty-five percent of these trees every year. As trees reach maturity increased risk of limb drop can be expected. Additionally, trees that have been heavily watered and fertilized have weaker wood and can be expected to drop more limbs than wild trees.

It is a useful insight to consider the probable condition of these trees five or ten years after construction into the future. Improved maintenance is needed in the future. How will it be obtained? Now is the time period for planning. Five or ten years from now, when the decline of the trees is more pronounced, spot replacements will not give an orderly, well maintained look to the campus. Trees have short life spans in urban settings. The limited root space is primarily to blame. While trees may outlive humans many times over in natural settings, they need to be replaced on a regular basis in urban plantings. As a comparison, cities need to replace street trees as often as every seven to ten years in other parts of the country. A school also needs to be replanted periodically to maintain a safe and attractive environment. This current master planning is a good time to replace such trees.

Roots are growing thicker year-by-year, and as they do, they cause more and more paving damage. As paving damage increases, the risk of trip and fall injuries and law suits increases. If roots are cut to replace broken planters and sidewalks, trees could be expected to blow over due to the reduced and shallow root systems.

Replacement

Periodic replacement is the best and most practical solution for large trees in small planters in high traffic areas at North Hollywood High. Smaller species of trees will generally last longer than larger faster growing species, but give less shade. However, small species of trees may not provide the scale needed in a large lawn area or near large buildings. Also many slow growing trees are not as resilient and do not recover from damage quickly. Some larger species, such as many eucalypts, have been shown to have less expansive and damaging root systems for their canopy size. Root barriers, properly installed can also reduce damage. However, sooner or later almost any tree will outgrow the small planters, such as in the main quad.

Disclaimer

Professional and current information on tree hazard evaluation has been applied to the tree-by-tree inspection. However, even when every tree is inspected, inspection involves sampling, therefore some areas of decay or weakness may be missed. Weather, winds and the magnitude and direction of storms are not predictable and some failures may still occur despite the best application of high professional standards. Future tree maintenance will also affect the trees health and stability and is not under the supervision or scrutiny of this consultant. Future construction activity such as trenching will also affect their health and safety, but are unknown and unsupervised by this consultant. Trees are living, dynamic organisms and their future status cannot be predicted with complete certainty by any expert. This consultant assumes no liability for any tree failures involved with this project.

Appendix

A. Resume

B. Photographic Documentation

C. City of Los Angeles Protected Species

D. Failure Profiles by Species

A. RESUME - GREGORY W. APPLEGATE, ASCA, ASLA

Credentials

American Society of Consulting Arborists - Registered Consulting Arborist #365
International Society of Arboriculture - Certified Arborist #WE-180a
International Society of Arboriculture - Tree Risk Assessment Qualified-PNC-444

Experience

Mr. Applegate is an independent consulting arborist, CEO of Arborgate Consulting, Inc. He has been in the horticulture industry since 1963, providing professional arboricultural consulting since 1984 within both private and public sectors. His expertise includes appraisal, tree preservation, diagnosis of tree and palm problems, construction impact mitigation, forensic consulting and testimony, risk evaluation, pruning specifications and supervision, species selection and tree health monitoring.

Mr. Applegate consults for insurance companies, developers, theme parks, museums, homeowners, homeowners' associations, landscape architects, landscape contractors, property managers, attorneys, schools, universities and governmental bodies.

Notable projects on which he has consulted are: Disneyland, Disneyland Hotel, DisneySeas-Tokyo, Disney's Wild Animal Kingdom, the New Tomorrowland, Disney's California Adventure, Disney Hong Kong project, Universal Studios, Knott's Berry Farm, J. Paul Getty Museum, Tustin Ranch, Newport Coast, Crystal Court, Newport Fashion Island Palms, Bixby Ranch Country Club, Playa Vista, MTA Purple and Expo Lines, MWD-California Lakes, Loyola-Marymount campus, Cal Tech, Cal State Long Beach, Pierce College, The Irvine Concourse, UCI, USC, UCLA, LA City College, LA Trade Tech, Riverside City College, Crafton Hills College, and the State of California review of the Landscape Architecture License exam (re: plant materials)

Education

Bachelor of Science in Landscape Architecture, California State Polytechnic University, Pomona 1973
Arboricultural Consulting Academy (by ASCA) Arbor-Day Farm, Kansas City 1995
Continuing Education Courses in Arboriculture required to maintain Certified Arborist status and for ASCA membership

Professional Affiliations

American Society of Consulting Arborists (ASCA), Registered Member
American Society of Landscape Architects (ASLA), Full Member
International Society of Arboriculture (ISA), Regular Member
ASCA 2011 Nominations Committee and A3G appraisal update committee
ASCA, Industry definitions committee 2009-2010
ASCA web site, west coast tree question responder (2007 and continuing)
California Oak Foundation, Member (2009 and continuing)
International Palm Society (IPS), Member (1977 and continuing)
California Tree Failure Report Program, UC Davis, Participant (1995 to present)
Street Tree Seminar (STS), Member (1978 and continuing)

Community Affiliations

Horticulture Advisory Committee, Saddleback College (1988 -1995
SoCalif ASLA visibility committee 1980-82
UCLA Interior Landscape Committee 1987
Landscape Arch. License Exam prep, Instructor, Cal Poly Pomona (1986-90)
American Institute of Landscape Architects Board of Directors (1980-82)
California Landscape Architect Student Scholarship Fund-Chairman (1985)
International Society of Arboriculture-Examiner-tree worker certification (1990)
Guest lecturer at UCLA, Cal Poly, Saddleback College, & Palomar Junior College
The Tree People (2000 and continuing)

B. Photographic Documentation



The jacaranda on the left is #1 tagged tree and the twisted juniper on the right is #264. The oak behind is #60



Oak #2 is on the right and the other oaks are consecutively numbered.



The soil is mostly bare and unmulched. Oak leaves are removed.



The fern pines along the building are partly exposed to the wind.



Note that the fern pines also contact the roof line in winds.



The small fern pine in the enclosure is #54.



The oaks are growing in ivy, which can be a health risk.



#49 Canary Island pine has been topped and lion-tailed.



The “foundation” planting along Colfax is being shaded out.



Oak #14 is in such poor health it should not be pruned until it recovers.



Many of these oak are decayed and may not be safe.



The small opening conceals an unknown about of internal decay.



With three large ficus in s small narrow planter, it is amazing more damage has not been done (so far).



Ficus #44, 45 and 46 at the corner.



The one incense cedar on campus, #38, is in declining health.



Deodar cedar #32 is crowding and being crowded by the oak street trees.



Overall, most of the large trees around the frontage are healthy and attractive.



Mexican fan palm #36 is mostly out of sight.



Deodar cedar #31 is sparse. The needed pruning should wait for recovery.



Oak #23 is the largest with a DBH of about 50 inches.



Shamel ash #83 in the background and too close to the building.



The last street tree on Magnolia #30 is a magnolia.



Cork oaks #99 to 92 from left to right. Note the small openings.



Large fern pines in small openings, with little asphalt damage.



Even surface rooted fern pines have caused little paving damage.



This Chitalpa will surely be limited by the small planter.



The paving and hardscape is new, but it doesn't appear to have damaged the fern pines.



These Shamel ash have about reached the limit of growth considering the planting space size.



The ficus at the right side is laying on the tile roof and likely to cause damage.



These ash are in poor health.



Note the outline of the earlier planter in the exposed roots.



These tipu trees are poorly trained and have weak branch attachments.



Note the crossing knot of the main limbs.



These tipu trees are attractive from a distance but not very safe to sit under.



These Victorian box are healthy shrubs that were trimmed up more tree like. They present little risk. They just look a little awkward.



These fern pines like many others are in small openings, but doing well.




These multi-trunk Victorian box have codominant trunks with included bark. When they hang over a bench they present a moderate risk level.



Trees, like this elm, that hang over sitting areas need better structure.



Some trees that have new hardscape nearby have been impacted.



Blue gums with longer limbs are more likely to drop limbs.



The small cutouts and insect problems are seriously impacting their health



The oaks across the north edge of campus (#7788 to 796) look good from a distance, but have some serious structural issues, such as decay.



This is a better setting for oaks, with the leaves left and more space.



Poor past pruning is the main issue impacting their condition.



Both these oaks appear to have critical or near critical levels of decay.



Decay at the soil line is more likely to advance.



This is the east end of the north group of oaks (#795 and 796). More paving has crept into their root zone.



Every effort should be made to keep this row of oaks intact, but professional decay testing is needed.



#785 Elm - This is a large specimen with a codominant trunk.



Glossy privet #799 and 800 are over lifted.



#253 to 255 (left to right) along the east edge of the campus.



The golden rain trees along the east edge are mostly in poor health.



Some for a long time and some, like the one above, declining recently.




The black locusts are generally in better health, but have root shoots coming up in many places.




The horticulture area of the campus is mostly out of control. Trees are leaning over neighboring properties, some are covered with ivy.



#267 Rauvolfia in the background is covered in ivy.



#134 Silver Mountain gum is lifting asphalt and outgrowing the space.



The fern pines along this edge are covered with ivy. (not included)



Many other trees along this abandoned edge are ivy covered.



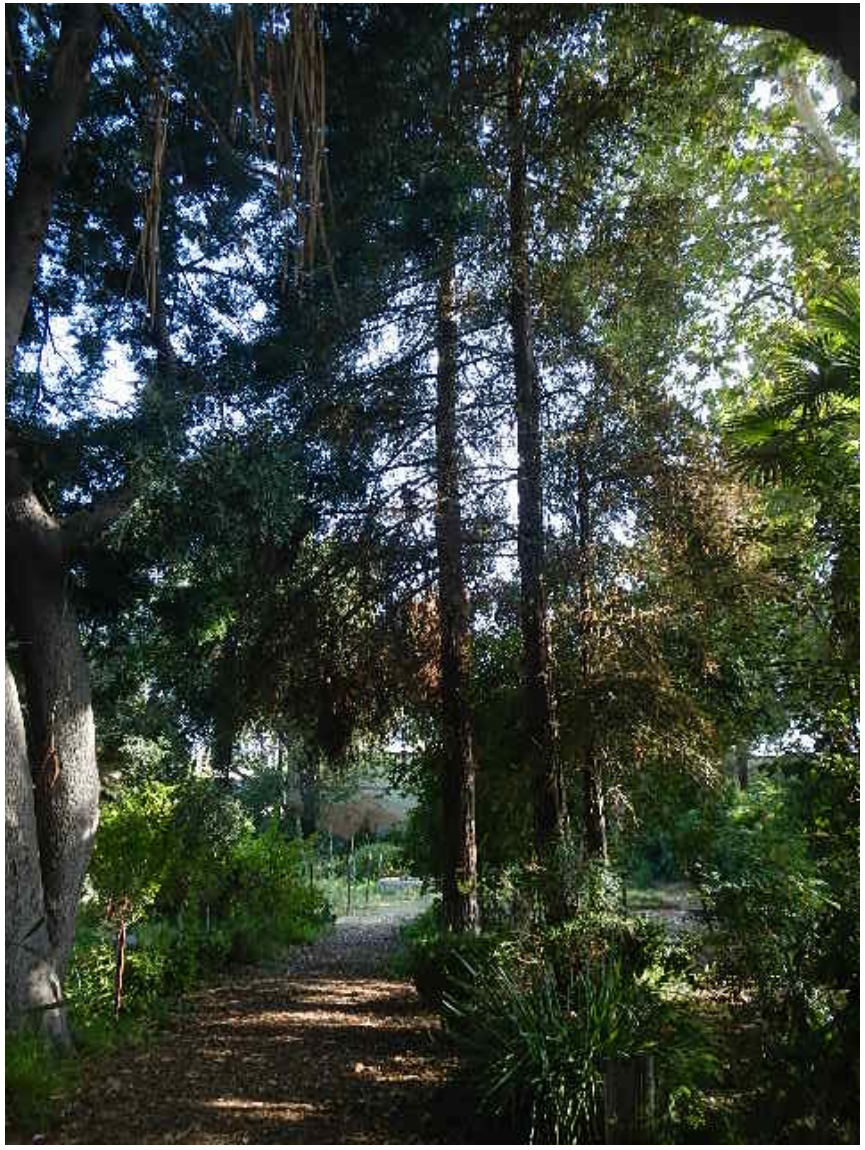
The back corner of the horticulture area is essentially unmaintained, but there are still good specimens worth saving.



Some of these large trees along the edge are growing into the neighbor's property. The oak at the left is a holly oak, i.e. not protected.



This tree deserves better care. Note tall weeds and crowding.



The redwoods #176 and 177 in the center are dry and very sparse.



Note the crowding and lack of maintenance. Keep the ivy off the trees.



#754 Floss silk tree has overly long, end heavy limbs that may fail.



Large melaleucas #756 and 757 shade a large portion of this area.




#196 – 199, Four trees in this small area and three are ficus? The one in back is leaning out. Overall photo with a declining queen palm in front.



#193 Sweet gum at right, and #194 magnolia on the left. Note small planter.



Looking northeast from the greenhouse area at the “urban forest”.



#189 Jacaranda is codominant. #191 Ficus is leaning at the greenhouse.



#761 London plane tree shades a large part of this garden area.



#134 Silver Mountain gum seen from outside the OH unit.



Note the crowded trees at the front of the OH unit, e.g. Ficus #767



Note the crowded trees at the front of the OH unit, e.g. coral tree #765



Note the crowded trees at the front of the OH unit, e.g. Ficus #763



Note dead hanging limbs over the OH unit garden.



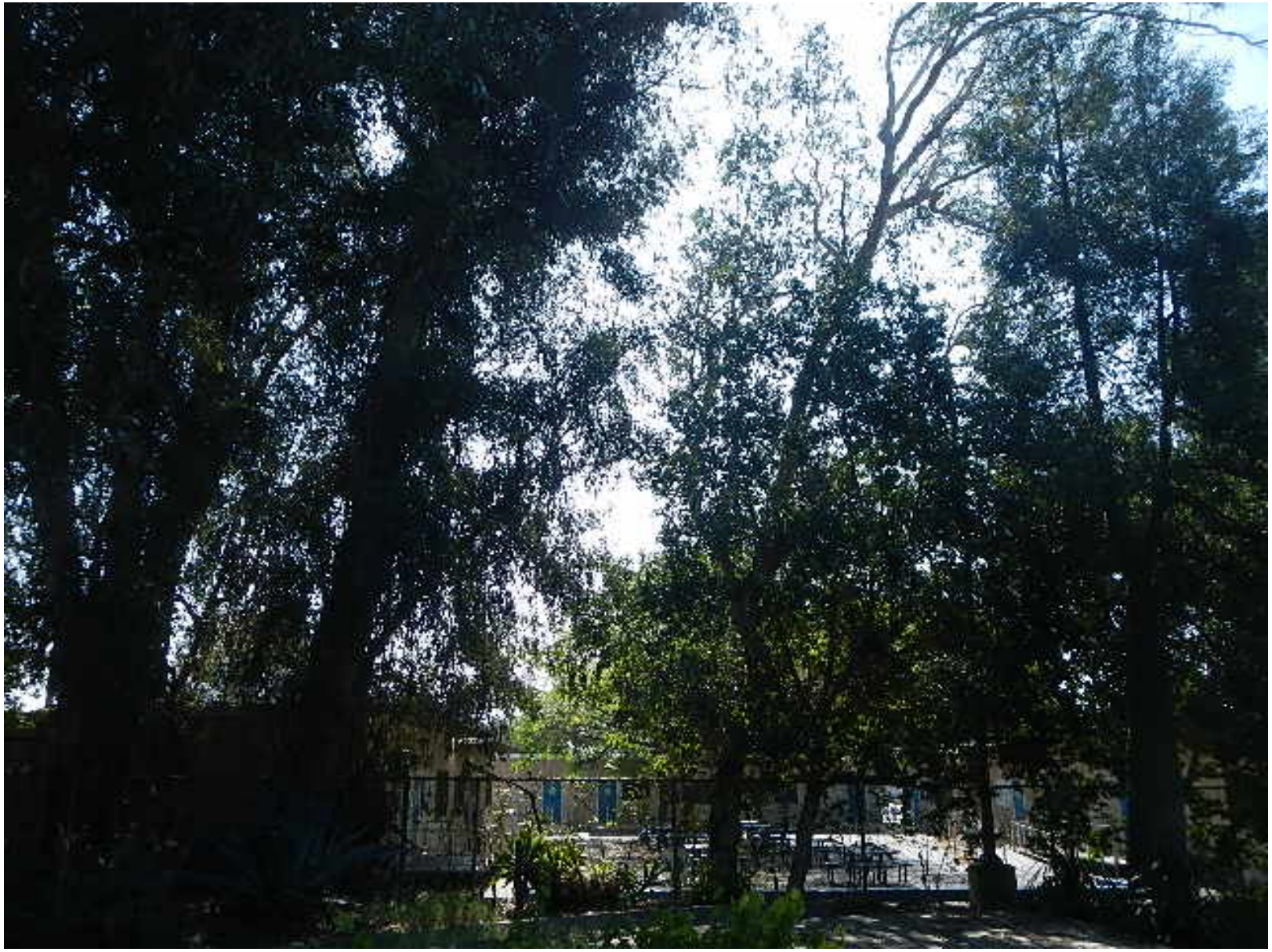
There are 3 blue gums planted together in this small enclosure, #769-771



#268 Aleppo pine in the donkey yard has overly long end-heavy limbs likely to fail.



#108 Italian stone pine over the animal husbandry unit. Its trunk leans at about 30 degrees above horizontal and its limbs are too long.



This edge of the lower OH unit is unmaintained. Note the 3 blue gums (left), Silver Mt. gum (middle) and bottle tree #106 (right)



Bottle tree #106 is healthy, but crowded and codominant.



Brachychiton #269 is in the goat enclosure.



#270 oak is over the chicken enclosure in the background.



There are number of valuable canary Island date palms in this area.



Coast live oak #115 is at the south edge by the fruit trees.



#108 Aleppo pine is over the rabbit enclosure.



#109 Rusty leaf fig, over the hog enclosure, is a good specimen.



Hackberry #114 appears to be a bunch of older stump sprouts.



#128 Indian laurel crowds a good Canary Island date palm.



Crowded oak #131



#117 & 118 Canary Island date palms.



Canary Island date palms #125 to 127 are too crowded.



#119 Canary Island pine is crowded and damaging the wall.

C. City of Los Angeles Protected Species

The following trees are indigenous to the Los Angeles area and are protected :

Juglans californica Southern California black walnut

Platanus racemosa California sycamore

Quercus agrifolia Coast live oak

Quercus douglasii Blue oak

Quercus engelmannii Mesa oak

Quercus lobata Valley oak

Quercus spp. All native oak species

Umbellularia californica California bay

*Highlighted species are found on this site.

D Failure Profiles by Species

Botanic name	Common name	Failures Common to Species
Afrocarpus falcatus	Fern pine	Rarely fails except as a result of poor pruning
Calocedrus decurrens	Incense cedar	Rarely fails, but whole tree failure due to root rot.
Callistemon viminalis	Weeping bottlebrush	None noted
Celtis sp.	Hackberry	Occasional branch, rare trunk failure. Ranked low failure rate.
Cupaniopsis anacardioides	Carrotwood	Limb failure with included bark and crowded scaffolds.
Cupressus sp.	Cypress	None noted
Eucalyptus camaldulensis	Red gum	Branch failure usually without decay.
Ficus m. 'Nitida'	Indian laurel	Limb failure with codominant stems or included bark.
Fraxinus uhdei	Shamel ash	Branch failure due to poor structure, weak attachment and heavy end weight.
Jacaranda acutifolia	Jacaranda	Branch failure in strong winds.
Juniperus c. Torulosa	Hollywood juniper	Ranked as “low hazard”
Koelreuteria paniculata	Golden rain tree	Ranked as “low hazard”
Liquidambar styraciflua	Sweet gum	Branch failure with excessive end weight and poor attachment. Trunk failure from internal decay. Subject to summer branch drop.
Magnolia grandiflora	Southern magnolia	Rarely fails
Melaleuca quinquenervia	Paperbark melaleuca	Rarely fails
Morus alba	Fruitless mulberry	Trunk, limb and root failure with decay or poor attachment after heading. Medium failure rate.
Olea europea	Olive	None noted.
Phoenix canariensis	Canary Island date palm	Whole head failure due to trunk decay, Thielaviopsis or Ganoderma or unknown causes
Pinus canariensis	Canary Island pine	Rarely fails. Lower limbs may be shed in old trees.
Pinus halepensis	Aleppo pine	Girdling roots occasionally cause trunk failure in fast growing pines.

Botanic name	Common name	Failures Common to Species
Pinus torreyana	Torrey pine	Lower limbs may be shed in large old trees
Pittosporum undulatum	Victorian box	None noted
Platanus x acerifolia	London plane tree	Rarely fails except as a result of poor pruning
Platanus racemosa	California sycamore	Limb and trunk failure due to heart rot. Multi-stemmed stump sprouts may split out due to weak attachment at a decayed stump
Quercus agrifolia	Coast live oak	Scaffold limbs fail due to internal decay, heavy loads, and unknown reasons. Root failure due to oak root fungus and butt rot, especially in irrigated landscapes. Summer branch drop
Quercus suber	Cork oak	None noted.
Robinia pseudoacacia	Black locust	Medium failure rate due to trunk decay and borers. Ranked as high failure rate.
Schinus molle	California pepper	Scaffold branch and trunk failure due to decay.
Syagrus romanzoffianum	Queen palm	Rare trunk failure due to pink rot caused by climbing gaff injuries
Tipuana tipu	Tipu tree	Limb or trunk failure with included bark, girdling roots & crowded scaffolds.
Ulmus parvifolia	Chinese elm	Medium failure rate. Branch and scaffold limb failure due to poor attachments and excessive end weight.
Washingtonia robusta	Mexican fan palm	Rare trunk failure due to pink rot caused by climbing gaff injuries.

Arboricultural terms are defined in the Glossary of this report

Certification

I, Gregory W. Applegate, certify to the best of my knowledge and belief:

That the statements of fact contained in this report, are true and correct. That the report analysis, opinions, and conclusions are limited only the reported assumptions and limiting conditions, and are my personal unbiased professional analysis, opinions and conclusions.

That I have no present or prospective interest in the vegetation that is the subject of this report, and I have no personal interest or bias with respect to the parties involved.

That my compensation is not contingent upon the reporting or a predetermined value or direction in value that favors the cause of the client, the amount of the value estimate, or the attainment of stipulated result.

That my analysis, opinions, and conclusions were developed, and this report has been prepared, in conformity with the Guide for Plant Appraisal, authored by the Council of Tree & Landscape Appraisers (depreciation excepted) and the standards of arboricultural practice.

That I have made a personal inspection of the plants that are the subject of this report. No one provided significant professional assistance to the person signing this report.

Gregory W. Applegate_____ Date 7/7/2016

Registered Consulting Arborist #365

Glossary

Anaerobic	A condition marked by the absence of oxygen; unsuitable for normal life and growth of plant tissues. Usually populated by bacteria capable of surviving low oxygen conditions.
Annual	A plant that completes its life cycle in a year or less, from germination, through flowering, setting seed and dying.
ANSI-A300	American National Standards Institute performance standards for the care and maintenance of trees, shrubs and other woody plants.
ANSI-Z60-1	American National Standards Institute standards sizing and describing trees, shrubs and other nursery stock.
Apical dominance	Relative strength of the central leader compared to lateral branches.
Appraisal	The act or process of reaching a monetary opinion of properly defined value, which is disinterested, impartial, independent, and objective and of unambiguously reporting that opinion. Distinguished from valuation.
Arboricultural	Pertaining to the awareness, care, evaluation, identification, growing, maintenance, management, planting, selection, treatment, understanding, valuation and so forth of trees and other woody plants and their growing environments, particularly in shade and ornamental (non-crop/commodity) settings.
Arboriculture	The selection, cultivation, and care of trees, vines, and shrubs.
Arborist	A person possessing the technical competence through experience and related training to provide for or supervise the management of trees or other woody plants in a landscape setting.

ASCA	The American Society of Consulting Arborists, Inc. a professional society, as described in its by-laws.
Backfill	The soil returned to a planting hole after planting, sometimes amended, sometimes not.
Bark	Tissue on the outside of the vascular cambium. Bark is usually divided into inner bark - active phloem and aging and dead crushed phloem - and outer bark.
Biltmore stick	a Biltmore stick or cruiser stick can determine tree diameter and height along with volumes of wood on standing trees and logs.
Biotic	Pertaining to living organisms.
Bracing	Installation of steel rods or bolts through the stems or limbs, to reduce twisting or splitting of the wood.
Branch angle	The angle of attachment between two branches.
Branch Collar	Trunk tissue that forms around the base of a branch between the main stem and the branch, or between a main branch and a lateral branch. As a branch decreases in vigor or begins to die, the collar usually becomes more pronounced an more completely encircles the branch.
Cabling	Installation of steel cables, attached to lag screws or bolts placed in tree limbs, to provide additional support or to limit movement and stress of limbs.
Caliper	Diameter of a nursery-grown or small size tree trunk. Larger trees are usually measured at 4ð feet (see DBH) Trees with calipers 4 inches and below are measured at 6 inches above grade(ANSI Z60-1-1990) Trees above 4 inches, but still transplantable are measured at 12 inches above grade.
Callus	Undifferentiated cells, often formed at the edges of recent injuries. This tissue quickly becomes differentiated, forming cells of the type characteristic of that position on the tree (ie: forming wood, bark, roots, etc.) see wound response tissue
Cambium	A thin layer of actively growing and dividing cells, located between the xylem (sapwood) and bark of a plant; the part responsible for lateral growth of a tree stem or branch.
Canker	An area of dead bark caused by certain fungal infections.
Canopy	The part of the crown composed of foliage and twigs, for an individual tree or collective group of trees.

Cavity An open and exposed area of wood, where the bark is missing and internal wood has been decayed and dissolved.

Central leader The main stem of the tree.

Chlorotic Also Chlorosis. A condition of the plant marked by yellowing of normally green foliage, often indicating nutrient deficiency or plant dysfunction.

Codominant Leaders equal in size and relative importance, developed from 2 apical buds at the top of a stem. Each codominant stem is an extension of the stem below it. There are no branch collars or trunk collars at the bases of codominant stems.

Codominant crown class Crowns of equal or near equal height and dominance in a stand.

Compaction (Soil Compaction) The compression of soil, causing a reduction of pore space and an increase in the bulk density of the soil. Tree roots cannot grow in compacted soil.

Compartmentalize To seal off decay. The ability of the tree to restrict the spread of invasive organisms, such as decay fungi, by means of internal changes in cell structure and chemistry.

Conifer Cone bearing shrub or tree, e.g. pines and cypress (or modified cone-like structure as in Podocarpus and Taxus)

Conk A woody or perennial reproductive organ of certain fungi, usually found on trunks, branches or stumps.

Crotch The union of two or more branches; the axillary zone between branches.

Crown The upper portions of a tree or shrub, including the main limbs, branches, and twigs.

Crown class The relative size of individual trees in relation to others in the stand, usually termed dominant, codominant, intermediate, or suppressed

Crown Reduction Removal of large branches and/or cutting back to large laterals to reduce the height or width of the crown; frequently referred to as “drop crotch” pruning – corresponds to National Arborist Association Class IV pruning.

Cultivar A cultivated variety. Maybe a field selection or a horticultural variety that has originated and persisted under cultivation. Usually enclosed in single quotes after the genus and species names.

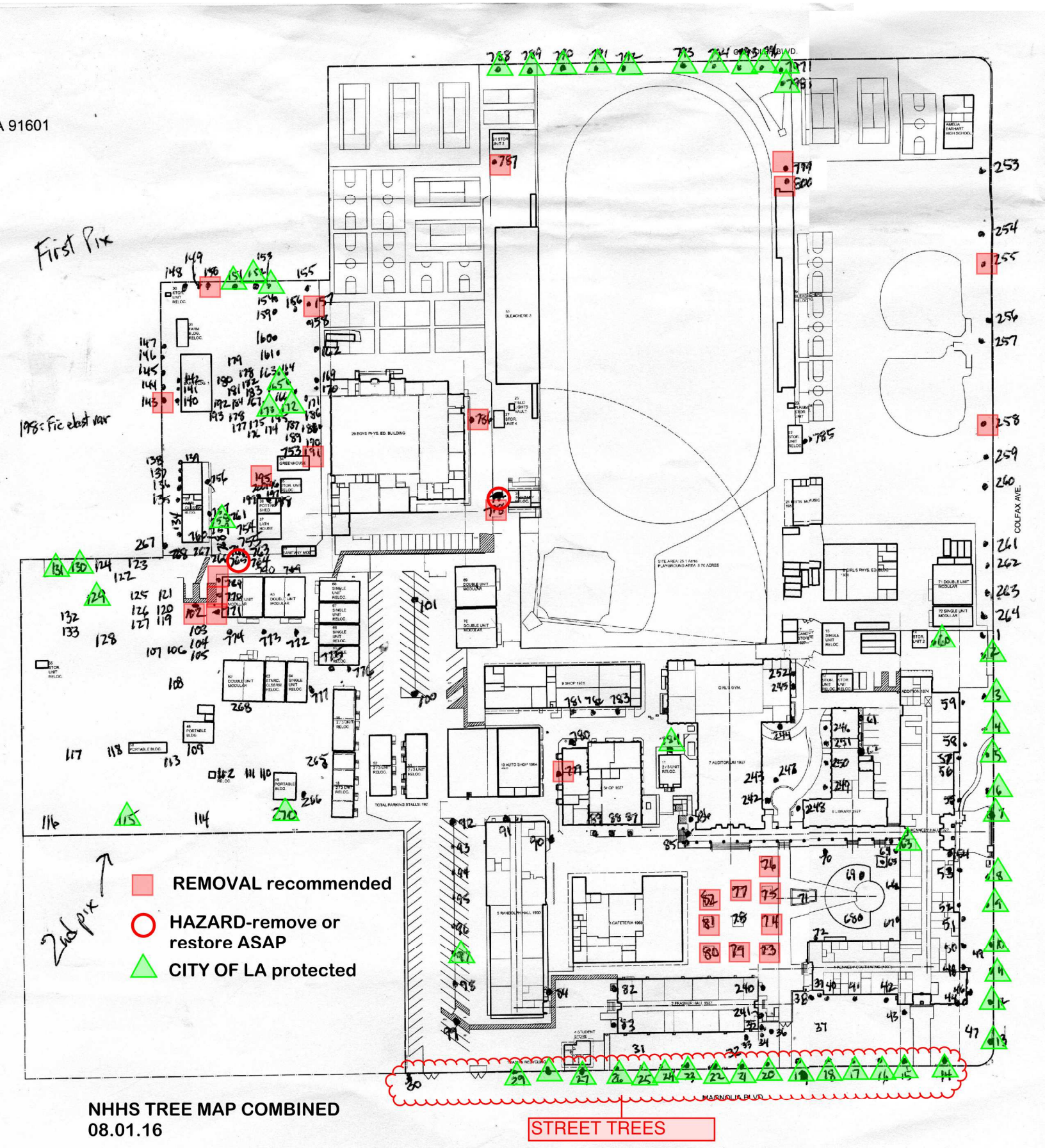
DBH Diameter of the trunk, measured at breast height or 54 inches above the average grade. See caliper.

Decay	Progressive deterioration of organic tissues, usually caused by fungal or bacterial organisms, resulting in loss of cell structure, strength, and function. In wood, the loss of structural strength.
Deciduous	Trees which shed their leaves at the end of the growing season.
Decline	Progressive reduction of health or vigor of a plant.
Decurrent	Referring to crowns which are made up of a system of codominant scaffold branches. Lacking a central leader.
Dieback	Progressive death of buds, twigs and branch tissues, on individual limbs, or throughout the canopy.
Dripline	A projected line on the ground that corresponds to the spread of branches in the canopy; the farthest spread of branches.
Drop-crotching	Shortening a limb by pruning to an inner branch large enough to assume the terminal role.
Evergreen	retains its leaves throughout the year.
Excurrent	Referring to crowns having a strong central leader.
Fertilization	The process of adding nutrients to a tree or plant; usually done by incorporating the nutrients into the soil, but sometimes by foliar application or injection directly into living tissues.
Fill (Soil)	Altering the soil level to raise the elevation of the surface; addition of soil. see cut
Foliage	The live leaves or needles of the tree; the plant part primarily responsible for photosynthesis.
Fruit	A ripened ovary, together with any other parts which may develop with it, containing one, two or more seeds.
Gall	An abnormal, disorganized growth of plant tissues, caused by parasitic or infectious organisms such as insects, fungi, bacteria, or viruses.
Genus	A more or less closely related and definable group of plants, including one or more species.
Hardscape	The sidewalk, curb, gutter, paving or other concrete permanent features.
Hazardous condition	The combination of a likely failure of a tree or tree part with the presence of a likely target.
Heading	Pruning techniques where the cut is made to a bud, weak lateral branch or stub.
Hybrid	The offspring that results from crosses between plants belonging to different species, genera or distinct forms of the same species.

Included bark	Bark or cortex tissue that is included or trapped between close-growing branches. Usually found in narrow or tight crotches.
Leader	A main stem or branch of a tree that is (usually) codominant with other main stems.
Limb	A large lateral branch growing from the main trunk.
Lion-tailing	Pruning technique where internal foliage and branches are removed, leaving the latter concentrated at branch ends.
Mulch or Mulching	Substances spread on top of the ground to conserve water, protect against erosion, retain moisture, and protect the roots of trees from heat, cold or drought. The substances are typically organic, such as compost, manure or bark chips.
Mycorrhizae	A term given to the symbiotic relationship between roots and certain beneficial fungi. Mycorrhizae are the combined root / fungal growth.
Narrow crotch	Also tight crotch. A crotch with a narrow angle between branches, often having included bark.
Pathogen	A disease-causing organism, usually a fungus in plants, but may also be viral or bacterial.
Prune or Pruning	Selective removal of woody plant parts of any size, using saws, pruners, clippers, or other pruning tools.
Reduction cut	(drop crotch cut) pruning cut that reduces the length of a branch or stem back to a live lateral branch large enough to assume apical dominance that is typically at least one-third the diameter of the cut stem; also cutting back a stem or branch to an existing, smaller, lateral branch that is large enough to prevent bark death on the retained lateral branch.
Resistograph	An instrument used to detect and measure the extent of decay in trees and wood. The Resistograph drills a 3 mm hole into the trunk and produces a graph of the resistance encountered.
Restructuring	Restoration of a natural and/or structurally sound form to a tree, which has been previously topped or damaged. Also known as “crown restoration”.
Root crown	Area at the base of a tree where the roots and stem merge (synonym - root collar)
Root system	The portion of the tree containing the root organs, including buttress roots, transport roots, and fine absorbing roots; all underground parts of the tree.
Root zone	The area and volume of soil around the tree in which roots are normally found. May extend to three or more times the branch spread of the tree, or several times the height of the tree.

Scaffold limb	Primary structural branch of the crown.
Shrub	A relatively low woody plant with several stems arising near the ground.
Soil grade	Also Grade level. The level of the soil in an area; topographic elevation.
Street tree	A tree growing adjacent to dedicated roadways and within the city's right of way.
Stress	"Stress is a potentially injurious, reversible condition, caused by energy drain, disruption, or blockage, or by life processes operating near the limits for which they were genetically programmed." Alex Shigo
Subordination	Shortening or removing one side of a pair of codominant limbs.
Sudden limb drop	An otherwise sound and well-attached branch that is dropped in calm air, usually during warm, dry weather. Also referred to as "High temperature limb drop".
Suppressed	Trees which have been overtopped and whose corwn development is restricted from above.
Target	Any person or object within reach of a falling tree or part of a tree, that may be injured or damaged.
Thinning	Pruning technique where branches are removed at their point of origin or to a large lateral at least on half the diameter of the removed branch.
Topping	The practice of cutting large limbs back severely, without regard to form or habit of the tree. Cuts are usually made between lateral branch nodes. This practice is extremely injurious to trees, and promotes decay in the canopy.
Trees	An arborescent woody plant, with a single or few trunks near the base
Trunk Flare	The basal area of the trunk that flares or widens, and merges with the main roots. see root collar
Valuation	An analysis or study of monetary value or the methodology used in determining monetary value or the giving of advice concerning monetary value, which is not constrained by the same duties as an appraisal and which is not held out or reported as an appraisal. An assignment involving such activity.
Value	The relative worth, merit, or importance of a thing, expressed as a single point, a range, or a relationship to a benchmark.
Vertical mulching	Ventilation of soil by auguring holes in a regular pattern. Usually the holes are backfilled with amended soil, but small holes may be left open.
Vigor	Active, healthy growth of plants: ability to respond to stress factors.

Site Map (attached)



NHHS TREE MAP COMBINED
08.01.16

APPENDIX C

HISTORIC RESOURCES

C-1: Character Defining Features

C-2: Update to Character Defining Features

C-3: Historical Effect Assessment

C-1: Character Defining Features

Memorandum

TO: Gwenn Godek, Contract Professional/CEQA Advisor, Los Angeles Unified School District (LAUSD)

DATE: January 18, 2016

FROM: Margarita Jerabek, Ph.D., Director of Historic Resources, Amanda Kainer, M.S., Senior Architectural Historian, and Virginia Harness, Architectural Historian Technician

RE: **CHARACTER-DEFINING FEATURES MEMORANDUM (CDFM) FOR NORTH HOLLYWOOD HIGH SCHOOL, 5231 COLFAX AVENUE, NORTH HOLLYWOOD, CALIFORNIA 91601**

INTRODUCTION

PCR Services Corporation ("PCR") appreciates the opportunity to prepare Character-Defining Features Memorandum ("CDFM") for North Hollywood High School ("North Hollywood HS") located at 5251 Colfax Avenue. Initially constructed in 1927, the Mediterranean Revival style North Hollywood HS is older than forty-five years, and therefore meets the age threshold for consideration as a historical resource under CEQA. The first step in the project planning process involving a historically significant school is the identification of character-defining features that account for its eligibility as a historical resource. The baseline data presented in this CDFM is to be used in conjunction with the *LAUSD Guidelines and Treatment Approaches for Historic Schools* to ensure future modernization and upgrade projects will avoid significant adverse impacts to the historical significance of North Hollywood HS.[1] This CDFM includes a discussion of the methodology used, previous evaluations, a brief historic overview, and an analysis of the primary and contributing character-defining landscapes, buildings, and features of the subject school.

METHODOLOGY

The CDFM was conducted by Margarita Jerabek, Ph.D., Director of Historic Resources, Amanda Y. Kainer, M.S., Senior Architectural Historian, and Virginia E. Harness, M.A., Architectural Historian Technician, all of whom meet and exceed the Secretary of the Interior's Professional Qualification Standards in history and architectural history.[2]

The following tasks were performed by PCR for the study:

- Undertook an intensive pedestrian survey and digital photography In May 2015 to document the existing conditions of the subject property. PCR utilized the survey methodology of the State Office of Historic Preservation ("OHP").

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[1] SWCA Environmental Consultants, *Los Angeles Unified School District Guidelines and Treatment Approaches for Historic Schools*, prepared for Los Angeles Unified School District (January 2015).

[2] The Professional Qualification Standards are requirements used by the National Park Service and have been published in the Code of Federal Regulations ("CFR"), 36 CFR Part 61.

- Conducted site-specific research on the school sites utilizing Sanborn fire insurance maps, historical photographs and plans, historical plans provided by LAUSD, and other published sources.

- Reviewed and applied methodology, eligibility standards and integrity considerations presented in the LAUSD Historic Context Statement.[3] In addition, utilized the National Park Service's ("NPS") guidance provided in Preservation Brief 17, *Architectural Character: Identifying the Visual Aspects of Historic Buildings as an Aid to Their Preservation*, to identify the visual character of the subject school.[4]

PREVIOUS EVALUATIONS

During the 1994 FEMA Survey, North Hollywood HS was assigned a California Historical Resource Status Codes of "2S2," which means the subject school is an "individual property determined eligible for the National Register by a consensus through the Section 106 process and is listed in the California Register."[5] In 2011, the North Hollywood HS School Barn was found eligible for the California Register and assigned a California Historical Resource Status Code of 3CS, for its association with agricultural vocational training in the San Fernando Valley under Criterion 1 at the local level of significance.[6]

HISTORIC OVERVIEW

North Hollywood HS (formerly Lankershim High School), was constructed in 1927 on land formerly owned by the Lankershim Ranch Land and Water Company. Prior to the construction of the school, the lot was the site of an apricot orchard, a peach orchard, and a grape vineyard, as well as a two-story house with several small outbuildings.[7] The existing improvements, along with some 1,170 fruit trees, were removed from the property in order to construct the school.[8] The original 1927 portion of the school was designed by the prominent firm of master architect Myron Hunt, who was in partnership with H.C. Chambers. Hunt appears to have been the lead architect on this project.[9] The original Mediterranean Revival style original consisted of four primary buildings connected by an arcade. The Main Classroom Building (Building 1) was constructed in concrete and fronted Colfax

[3] Sapphos Environmental, Inc., *Los Angeles Unified School District: Historic Context Statement, 1870 to* 1969 (March 2014).
[4] Lee H. Nelson, *Preservation Brief 17: Architectural Character—Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character*, National Park Service, September 1988, http://www.nps.gov/tps/how-to-preserve/briefs/17-architectural-character.htm, accessed June 4, 2015.
[5] Sapphos Environmental, Inc., *LAUSD Historic Resources Survey Report*, Prepared for LAUSD Office of Environmental Health and Safety (June 2014): 75.
[6] Peter Moruzzi, David Greenwood, ICF International, *DPR for North Hollywood High School Barn* (May 25, 2011).
[7] 8786.00.002, July 1, 1925, Plot Plan
[8] 8786.00.005, December 1, 1926, Removal of Fruit Trees
[9] 8786.21.000, April 1, 1926, Main, Shop/Mechanics, Auditorium/Gymnasium & Library/Classroom Buildings

Avenue. The arcade extended out from the center of the rear of the Main Classroom Building (Building 1), with each of the support buildings constructed to the west of the classroom building and north of the arcade. The Domestic Science Building (Building 6) was nearest to the Main Classroom Building (Building 1), followed by the Auditorium (Building 7), and finally the Shop (Building 8). The three support buildings were each covered in stucco. Additionally, there were three bungalows to the north of the Main Classroom Building (Building 1) and six bungalows located south of the Shop (Building 8).[10] In 1930, an addition was made to the south end of the Main Classroom Building (Building 1), creating an "L" shaped footprint.[11] Another change that occurred in 1930 was the altering of the inscription above the front entrance from "Lankershim High School" to "North Hollywood High School."[12]

In 1936 a new Girls' Physical Education Building (Building 16) was constructed north of the Main Classroom Building (Building 1).[13] That same year a second Classroom Building (Building 2) was added west of the 1930 addition to the Main Classroom Building (Building 1) and south of the Shop (Building 8), requiring the relocation of the bungalows which were formerly in that area. However, it is unclear if the bungalows were relocated onsite or offsite.[14] In 1938 a small addition was made to the west end of the Shop (Building 8).[15]

[10] 8786.00.004, August 1, 1927, Grading and Leveling
[11] 8786.00.007, October 1, 1929, Plot Plan
[12] 8786.04.000, March 1, 1930, New Classroom Addition to Main Building
[13] 8786.20.000, July 1, 1936, New Girls Physical Education Building
[14] 8786.19.000, March 1, 1936, New Classroom Building
[15] 8786.06.000, March 1, 1938, Addition to Shop/Mechanics Building



Figure 1. Aerial View of North Hollywood HS, 1927

Changes to the campus continued after the end of World War II. A small Medical Clinic Bungalow was added in 1948, sited north of the Main Classroom Building (Building 1) and the row of bungalows, fronting Colfax Avenue.[16] A new Social Arts Building (Building 5) designed by architect H.C. Chambers was built in 1949, located west of the 1936 Classroom Building (Building 2) and the Shop (Building 8).[17] In 1950 an Agricultural Classroom Building (Building 33) and a Barn (Building 32) to shelter cattle and hogs, and a new Rabbitry, were constructed near the corner of Radford Street and Chandler Boulevard.[18] In 1951 the Shop (Building 8) underwent strengthening and reconstruction.[19] A new Boys' Physical Education Building (Building 29) was added in 1954, located west of the Athletic Field.[20] Some alterations were made to the interior of the Main Classroom Building (Building 1) that same year.[21] A new Instrumental Music Building (Building 21) was added to the campus in 1957, followed that same year by alterations to the Girls' Physical Education Building (Building 16)

[16] 8786.08.000 September 1, 1948, Medical Clinic Bungalow (AA-536)
[17] 8786.18.000 June, 14, 1949 Social Arts Building
[18] 8786.09.000 March 1, 1950 Agricultural Classroom Building, Barn #1, FB-83, FB-84, FB-85, M-668 & New Rabbitry
[19] 8786.10.000 June 1, 1951, Strengthening and Reconstruction of Shops/Mechanics Building
[20] 8786.11.000 June 1, 1954, Boys Physical Education Building
[21] 8786.13.000 December 1, 1954 Alterations to Main Building

and the Auditorium (Building 7).[22] In 1959 the Auditorium (Building 7) also underwent structural strengthening.[23]

The late 20th century saw fewer major changes to the campus, but several buildings underwent extensive repair and strengthening work. The Main Classroom Building (Building 1) again underwent interior alterations in 1960 and 1961.[24] In the 1965 a new Shop (Building 9) was added and the existing Shop (Building 8) was altered, filling up much of the area between the auditorium (Building 7) and the Social Arts Building (Building 5).[25] A new Cafeteria (Building 3) and Student Sore (Building 4) were constructed in 1965, bordered by the 1936 Classroom Building (Building 2) to the south, the Social Arts Building (Building 5) to the west, and the Shop (Building 8) and Auditorium (Building 7) to the north.[26] In 1967, an addition was made to the southern end of the old Cafeteria and Domestic Science Building (Building 6) for the creation of a new Library.[27] The Agricultural Building (Building 33) had to be repaired due to fire damage in 1969, and the Domestic Science Building (Building 6) was structurally strengthened in 1972.[28] The Main Classroom Building (Building 1) was strengthened and modernized again in 1974.[29] Following the Northridge earthquake in 1994, several buildings on campus required repairs, which were carried out in 1995.[30]

CHARACTER-DEFINING FEATURES ANALYSIS

The character-defining features analysis presented below is a detailed summary of the visual character of North Hollywood HS, including the site plan, landscape, buildings, architectural details, materials, finishes and interior spaces, which contribute to the eligibility of North Hollywood HS as a historical resource. According to the NPS, "character refers to all those visual aspects and physical features that comprise the appearance of every historic building. Character-defining elements include the overall shape of the building, its materials, craftsmanship, decorative details, interior spaces and

[22] 8786.14.000 July 1, 1957 New Instrumental Music Building
8786.16.000 September 1, 1957, Alterations to Girls Physical Education Building and Auditorium/Gymnasium Building
[23] 8786.17.000 April 1, 1959, Structural Strengthening of the Auditorium/Gymnasium Building
[24] 8786.VG.427 January 15, 1960, Alterations to Main Building for Attendance/Principal's Office
8786.VG.461 September 20, 1961 Alterations to Main Building
[25] 8786.24.000 December 1, 1964 New Auto Shop & Shop Buildings, Alterations to Shop/Mechanics Building (1938 Portion) and 1928 Portion
[26] 8786.25.000 August 1, 1965 New Cafeteria Building & Student Store Building
[27] 8786.26.000 August 1, 1967 Alterations to Domestic Science & Cafeteria Building for New Library in Library/Classroom Building
[28] 8786.29.000 June 1, 1969 Fire Damage Repair to Agricultural Building
8786.30.000 October 1, 1972 Structural Strengthening of Domestic Science & Cafeteria Building
[29] 8786.32.000 November 1, 1974, Strengthening & Modernization of Main Building
[30] 8786.25.000 November 28, 1995 Earthquake Repair of Facilities (Port I)

features, as well as the various aspects of its site and environment."[31] The NPS describes the visual characteristics that generally represent character-defining features: "the major contributors to a building's overall character and embodied in the general aspects of its *setting*; the *shape* of the building; its *roof* and roof features, such as chimneys or cupolas; the various *projections* on the building, such as porches or bay windows; the *recesses* or voids in a building, such as open galleries, arcades, or recessed balconies; the *openings* for windows and doorways; and finally the various materials that contribute to a buildings character."[32] The approach to identifying visual character involved the examination of the subject school from afar to understand its overall setting and architectural context; then moving up closer to investigate its materials and the craftsmanship and surface finishes; and lastly, going into and through the buildings to perceive those spaces, rooms and details that comprise its interior visual character.

The character-defining landscapes and buildings on the North Hollywood HS campus are analyzed and classified as significant, contributing, and non-contributing. These terms are generally interchangeable with "primary" (significant), "secondary" (contributing), and "tertiary" (contributing) character-defining features, which are also commonly used descriptors. Significant character-defining buildings and landscapes determine the eligibility of a historical resource (North Hollywood HS) and are the most important features to retain. Alterations to significant buildings and landscapes shall be avoided.[33] Contributing character-defining buildings and landscapes are secondary and tertiary features that taken together with the primary features convey a property's significance as a historical resource. Compared to primary character-defining buildings and landscapes, these contributing buildings and landscapes are not as visually prominent or retain moderate integrity. Because contributing character-defining buildings and landscapes have a lower level of significance, they shall be preserved to the greatest extent feasible and rehabilitated as appropriate; however, more flexibility is given to these buildings and landscapes and alterations or removal of these contributing features may not adversely impact the subject school's significance. The greatest flexibility is afforded to non-contributing buildings and landscapes; they do not contribute to the significance of the subject school, therefore, their complete removal does not adversely impact the significance or eligibility of the subject school.

Described below are the significant (primary) and contributing (secondary and tertiary) character-defining buildings and landscapes of North Hollywood HS dating from the period of significance that account for its eligibility as a historical resource. The primary period of significance for North Hollywood HS is between 1927 and 1934 when the campus was built in the Mediterranean

[31] Lee H. Nelson, *Preservation Brief 17: Architectural Character—Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character*, National Park Service, September 1988, http://www.nps.gov/tps/how-to-preserve/briefs/17-architectural-character.htm, accessed June 4, 2015.

[32] Lee H. Nelson, *Preservation Brief 17: Architectural Character—Identifying the Visual Aspects of Historic Buildings as an Aid to Preserving their Character*, National Park Service ("NPS"), September 1988, http://www.nps.gov/tps/how-to-preserve/briefs/17-architectural-character.htm, accessed June 4, 2015, *pps 1-2.*

[33] Should a significant landscape or building require alteration further historic review will be required under CEQA law.

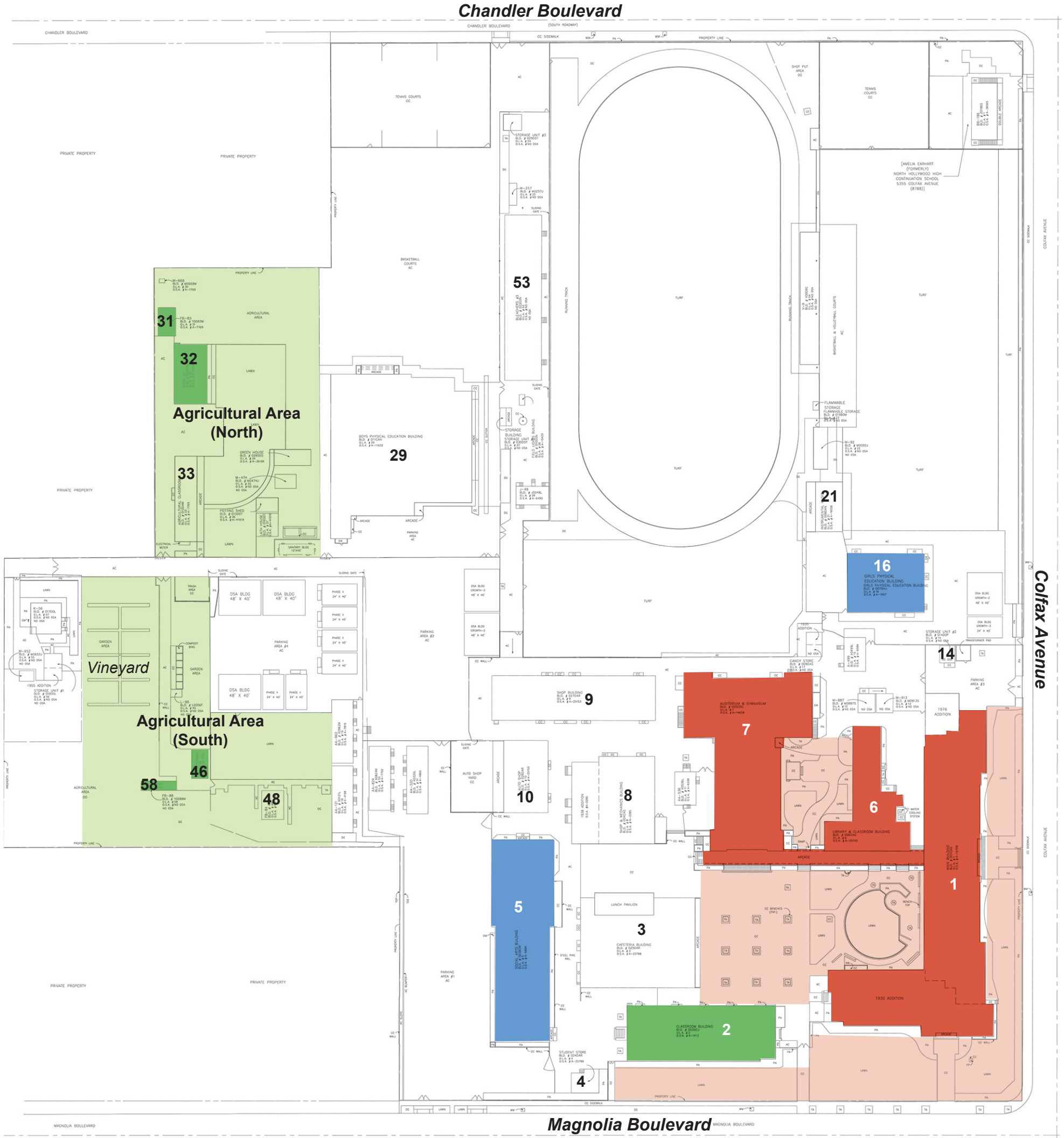
Revival style. Significant character-defining buildings and landscapes represent the original period of significance, are visually prominent, and retain high integrity. While contributing character-defining buildings and landscapes retain moderate integrity or may fall outside of the primary period of significance. Described underneath each significant or contributing building/landscape is a list of features that contribute to the visual character and architectural significance of the building/landscape from its period of significance. Non-contributing buildings, landscapes, and features were not identified; however, non-contributing alterations located on identified significant or contributing buildings/landscapes are italicized. If a building, landscape, or feature is not listed below as significant or contributing, it can be assumed the building, landscape, or feature is non-contributing. The site plan presented as Figure 2, on the following page, visually depicts the character-defining buildings and landscapes of North Hollywood HS.

Periods of Significance

1927-1930: Construction of Mediterranean Revival style Campus

1936: Mediterranean Revival and PWA Moderne style Improvements

1950-1971: Agricultural Improvements



Significant (Primary) Building

Significant (Primary) Landscape

Contributing (Secondary) Building

Contributing (Secondary) Landscape

Contributing (Tertiary) Building

Non-Contributing Building and Landscape

PCR

N

0 150 Feet

Character-Defining Features Analysis
North Hollywood High School

East Village Mixed Use Project

Source: Los Angeles Unified School District, 2002; PCR Services Corporation, 2015.

FIGURE
2

Significant (Primary): Site Plan and Landscape

- Landscape in front of Buildings 1 and 2
- Interior courtyard (removal of non-contributing cafeteria is recommended to return courtyard to historic appearance)
- Spatial arrangement between primary contributing buildings, especially arcade connection between Buildings 1, 6, and 7
- Courtyard between Building 6 and 7 and the vista created from the courtyard through the arcade to Magnolia Avenue (*alteration, hardscape has been improved*)


View of Interior Courtyard, View Southeast Standing In-front of Building 7


Courtyard between Buildings 7 and 6, View Southwest

Significant (Primary): Administration Building 1

Exterior Features

- Original 1927 building (designed by Myron Hunt) and 1930 addition (also designed by Myron Hunt) on south (*alteration, non-contributing addition on west side of the north elevation*)
- L-shaped plan
- 2-stories
- Horizontal massing
- Gable, clay tile roof
- Overhanging eaves with exposed rafters
- Stucco exterior finish
- 4-over-4 wood sash windows, with two or four pane transoms above (typically grouped in pairs)
- Recessed entry flanked by pilasters (*alterations, blue entry doors appear to be replacements)*

- Balcony on the east elevation with stucco molded bracket supports

Interior Features

- Circulation plan
- Stairwells
- *Non-contributing alterations: Interior appears to be largely altered from its original appearance. Linoleum flooring, drop-ceilings, fluorescent lighting, interior doors and doorframes, and metal lockers are non-contributing alterations.*


Administration Building 1, Primary (East) Elevation, View West


Administration Building 1, Primary (East) Elevation, View Southwest


Administration Building 1, South Elevation, View North


Administration Building 1, Secondary Entrance on South Elevation, View North


Administration Building 1, Non-Contributing Addition, North Elevation, View South


Administration Building 1, West Elevation, View East


Administration Building 1, Non-Contributing Addition, Rear (West) Elevation, View East


Administration Building 1, North Elevation, View South


Administration Building 1, West Elevation, View East


Arcade Connecting Building 1s and 6, View South

 Administration Building 1, Interior Corridor	 Administration Building 1, Entry Lobby, View East

Significant (Primary): Building 6

Exterior Features

- One-story
- Irregular t-shape plan (*alteration: non-contributing one room addition on east elevation*)
- Connecting arcade along south elevation, supported by large piers
- Exposed wood rafters underneath arcade
- Red tile shed roof over arcade
- Red tile side-gable roof over library
- Low, horizontal massing
- Small, single-pane square transom windows arranged in groups
- Four-over-four windows and four-light transoms or two-light transoms
- Six-over-six windows and three-light transoms
- Buttresses alongside elevations
- Stucco exterior
- *Non-contributing alterations: metal windows*

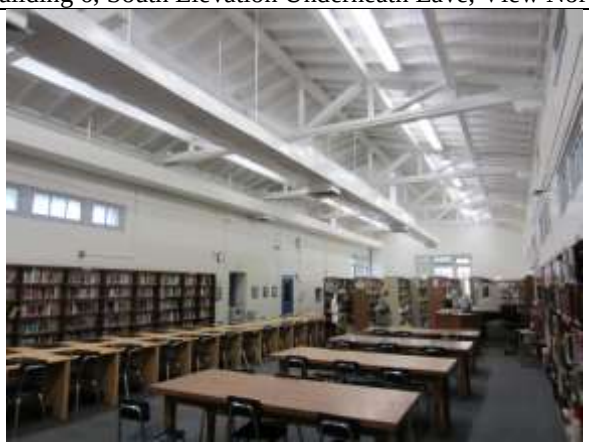
Interior Features

- Metal truss roof (likely not originally exposed)
- *Non-contributing alterations: exposure of metal truss roof inside library, many features likely removed during conversion from domestic science building to library. Carpet is not original flooring.*


Building 6, South Elevation, View North


Building 6, South Elevation Underneath Eave, View North


Building 6, Side (East) Elevation, View West


Building 6, Interior of Library

Significant (Primary): Auditorium Building 7

Exterior Features

- Irregular T-shaped plan
- Stucco exterior
- Connecting arcade along south elevation, supported by large piers (*alteration, the west end of the arcade was removed*)
- Exposed wood rafters underneath arcade
- Red tile shed roof over arcade
- Varied roof heights
- Shed red tile roof on entrance just above arcade
- Low, horizontal massing on south elevation, monumental massing with vertical emphasis on side and rear elevations
- Buttresses along rear and side elevations
- Increased height at rear elevation to accommodate auditorium

Interior Features

- Metal truss roof above basketball court
- *Non-contributing alterations: Auditorium lobby linoleum floor, interior of auditorium completely remodeled, duct work above basketball court, metal windows, ramp access to doors, lighting in auditorium*


Auditorium Building 7, Primary (South) Elevation, View North


Auditorium Building 7, Side (West) Elevation, View East



Auditorium Building 7, Side (West) Elevation, View East



Auditorium Building 7, Rear (North) and West Elevations, View South



Auditorium Building 7, View North



Auditorium Building 7, View South



Lobby in Auditoirum, View East



Auditorium Building 7, Basketball Court to the Rear of Auditoirum, View West

Contributing (Secondary): Fraser Hall Building 2

Exterior Features

- Two-story
- Rectangular Footprint
- Horizontal massing
- Stucco exterior
- Gable roof
- Red tile roof covering
- Overhanging eaves with exposed rafters and rafter tails on gable ends
- Flanking pilasters and entablature around entry
- Wood sash windows, 4-over-4 or 6-over-6

Interior Features

- Wood classroom panel doors with 3 small square windows with wood trim and large transom windows above *(alteration: transom panes painted over)*
- Large wood frame single-pane transom windows along interior corridors *(alteration: transom panes painted over)*
- Wood built-in cabinetry inside classrooms
- Stairwells with concrete steps and wood banisters
- *Non-contributing alterations: Flooring appears replaced, lighting has been replaced, tile ceiling, metal lockers*


Fraser Hall Building 2, East Elevation, View West


Fraser Hall Building 2, South Elevation, View Northwest


Fraser Hall Building 2, East and North Elevations, View Southwest


Fraser Hall Building 2, North Elevation, View South


Fraser Hall Building 2. West Elevation, View East


Fraser Hall Building 2, Corridor


Fraser Hall Building 2, Representative Classroom


Fraser Hall Building 2, Stairwell

Contributing (Secondary): Agricultural Area (North)

- Agricultural, open landscape with mature plantings
- Red Barn (Building 32)
  - One-story
  - Medium pitch front gable roof
  - Wood frame construction on concrete foundation
  - Rectangular plan
  - Sliding wood doors (front and back elevations)
  - Shiplap siding
  - Wood frame windows
  - Deep overhanding eaves
  - Hinged wooden doors
  - Exposed rafters
  - Arched neck metal yard lights
- North of the red barn, front gable ancillary wood-frame structure (Building 31)


Agricultural Area (North), Aerial (Bing)


Agricultural Area (North), Contributing Red Barn (Building 32), View North


Agricultural Area (North), Contributing Ancillary Structure North of Barn (Building 31), View North


Agricultural Area (North), Contributing Red Barn (Building 32) and Ancillary Structure North of Barn (Building 31), View Southwest


Agricultural Area (North), Contributing open landscape, View Northeast


Agricultural Area (North), Non-Contributing ancillary structures at Southeast Corner, View Southeast


Agricultural Area (North), Non-contributing classroom building southwest corner


Agricultural Area (North), Non-contributing classroom building southwest corner

Contributing (Secondary): Agricultural Area (South)

- Spatial relationship of buildings – two contributing ancillary structures (Buildings 46 and 58) for livestock and rabbits
  - Cinderblock foundations
  - Buildings not fully enclosed for maximum ventilation
  - Gable or shed roofs
- Vineyard
- Landscape in northern portion with mature palm trees, trees and other plantings
- Hardscape


Agricultural Area (South), Aerial (Bing)


Northern Portion of Agricultural Area (South), View Northwest


Agricultural Area (South), Contributing Vineyard, View Southwest


Agricultural Area (South), Contributing Ancillary Structure for Rabbits, Building 58, View West

 Agricultural Area (South), Contributing Livestock Structure, Building 46, View South	 Agricultural Area (South), Contributing Livestock Area, View Northeast

Contributing (Tertiary): Building 5

Exterior Features

- Long, rectangular footprint
- Roof shape: half the building has a gable roof with red tile covering, the other half has a flat roof
- Metal sash windows
- Stucco exterior
- Two stories
- Lack of ornamentation

Interior Features

- Circulation plan
- Stairwells
- *Non-contributing alterations: Appears that flooring and ceiling have been replaced. Metal lockers likely replaced.*


Building 5, East Elevation, View West


Building 5, Rear (West) Elevation, View Southeast


Building 5, North Elevation, View South


Building 5, South Elevation, View North

 Building 5, 1st Floor, View South	 Building 5, 2nd Floor, View South

Contributing (Tertiary): Building 16

Exterior Features

- Stripped down version of the PWA Moderne style constructed in 1936
- Square footprint
- Flat roof
- Stucco exterior
- Large multi-pane windows grouped in pairs or threes

Interior Features

- Open plan
- Lockers
- High ceilings


Building 16, South and East Elevations, View Northwest


Building 16, North Elevation, View South


Building 16, East and North Elevations, View Southwest


Building 16, Locker-room Interior

C-2: Update to Character Defining Features

LOS ANGELES UNIFIED SCHOOL DISTRICT
OFFICE OF ENVIRONMENTAL HEALTH & SAFETY

NORTH HOLLYWOOD HIGH SCHOOL AUDITORIUM
UPDATE TO CHARACTER-DEFINING FEATURES MEMO

PREPARED BY:
DEBI HOWELL-ARDILA, MHP
LAUSD HISTORIC PRESERVATION SPECIALIST

MAY 3, 2016

DRAFT

NORTH HOLLYWOOD HIGH SCHOOL
CHARACTER-DEFINING FEATURES MEMO UPDATE

I. Executive Summary

This memo was prepared by Los Angeles Unified School District (LAUSD) Historic Preservation Specialist Debi Howell-Ardila, MHP, at the request of the LAUSD Facilities Services Division (FSD). This work was completed in support of a campus-wide modernization project at North Hollywood High School. This memo provides information for project planning purposes that was not previously documented on character-defining features and alterations of the North Hollywood High School Auditorium. Previous documentation of character-defining features was included in a January 18, 2016 memo completed by PCR, Incorporated.[1]

Specifically, this memo documents two updated findings:

- Based on the high degree of alterations on the exterior and interior of the Auditorium, as well as its location away from the public right-of-way, the building qualifies as a secondary (rather than primary) contributor to the historic district. This corresponds with the definition of secondary contributors provided in the 2016 memo: "Compared to primary character-defining buildings and landscapes, [secondary] contributing buildings and landscapes are not as visually prominent or retain moderate integrity."

- The character-defining features known to exist at the North Hollywood High School are expanded to include the (at least partially) extant mural in the Auditorium, painted in 1936 by renowned American artist Fletcher Martin.

The supplemental information contained in this memo will be utilized by FSD staff and design team members as they plan for Comprehensive Modernization project components at the site.

II. North Hollywood High School Auditorium, Character-Defining Features and Alterations

This section provides additional detail on alterations and surviving character-defining features of the North Hollywood High School Auditorium. This update was prepared to provide LAUSD Facilities Services Division staff with the most up-to-date information available on extant character-defining features and alterations, for project planning purposes.

[1] PCR, Inc. Character-Defining Features Memorandum for North Hollywood High School, 5231 Colfax Avenue, North Hollywood, California. On file with the Los Angeles Unified School District Office of Environmental Health and Safety.

Given the degree of alterations to the Auditorium, as well as its location away from the public right-of-way, the Auditorium is considered to be a secondary contributor to the historic district. One of the most intact elements of the Auditorium is the continuous arcade connecting the Auditorium to the Library and Main Building; the character-defining features of the arcade are presented in their own section below.

A. AUDITORIUM EXTERIOR

Overall Character-Defining Features

- Overall mass and scale
- T-shaped building plan
- Buttresses along rear and side elevations
- Varied roof heights and red tile roof on entrance above arcade
- Stucco wall cladding
- Arcade along south elevation
    - Character-defining features of arcade: Large pier supports; wide, low sloped eaves with exposed wood rafters
    - Red tile shed roof over arcade

Overall Alterations

- West portion of exterior arcade removed
- Prominent multi-light windows lining both east and west elevations in-filled and stucco'd; outlines of window frames are partially visible on the exterior, covered over on the interior by non-compatible acoustic tiles. It is not clear if original windows are extant.
- Original detailing on Auditorium marquee and parapet roof appears to have been removed

B. AUDITORIUM INTERIOR

Overall Character-Defining Features

- Spatial configuration of the arcade-level entrance, lobby, and circulation corridors into seating area
- Open plan of the Auditorium
- Sloped floor and seating
- Raised stage

Overall Alterations

- Lobby and seating area of the Auditorium have been subject to extensive remodeling projects; few character-defining features survive.
- The removal of multi-light windows lining east and west elevations. Outlines of window openings and frames are no longer visible on the interior.
- Interior walls of the seating area are covered in non-compatible acoustic tiles.
- Original lighting has been removed in Auditorium seating area and lobby.
- Original flooring in lobby removed and replaced with non-contributing linoleum.

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III. Character-Defining Features: Fletcher Martin's 1936 Mural

Since completion of the 2016 memo documenting character-defining features, it was discovered that a 1936 mural thought to have been removed from the North Hollywood High School Auditorium had in fact been painted over and was at least partially extant. This section describes the mural and artist.

The mural, painted by renowned American artist Fletcher Martin, appears to survive beneath a layer of acoustic tiles, mastic, and paint. The artwork was painted by Martin just three years after his work with renowned Mexican muralist David Alfaro Siquieros. Martin's Works Progress Administration-era mural in the North Hollywood High School Auditorium was one of a number of artworks added to Los Angeles schools in this period. It was also said to have been one of the most ambitious works in the Fletcher's oeuvre. The 2016 memo did not mention the history of the mural at the school. In order to ascertain whether the mural survived, the District commissioned a preservation conservator to remove a number of panels and mastic. As a follow-up, the preservation conservator prepared a plan and cost estimates for the possible restoration of the mural.

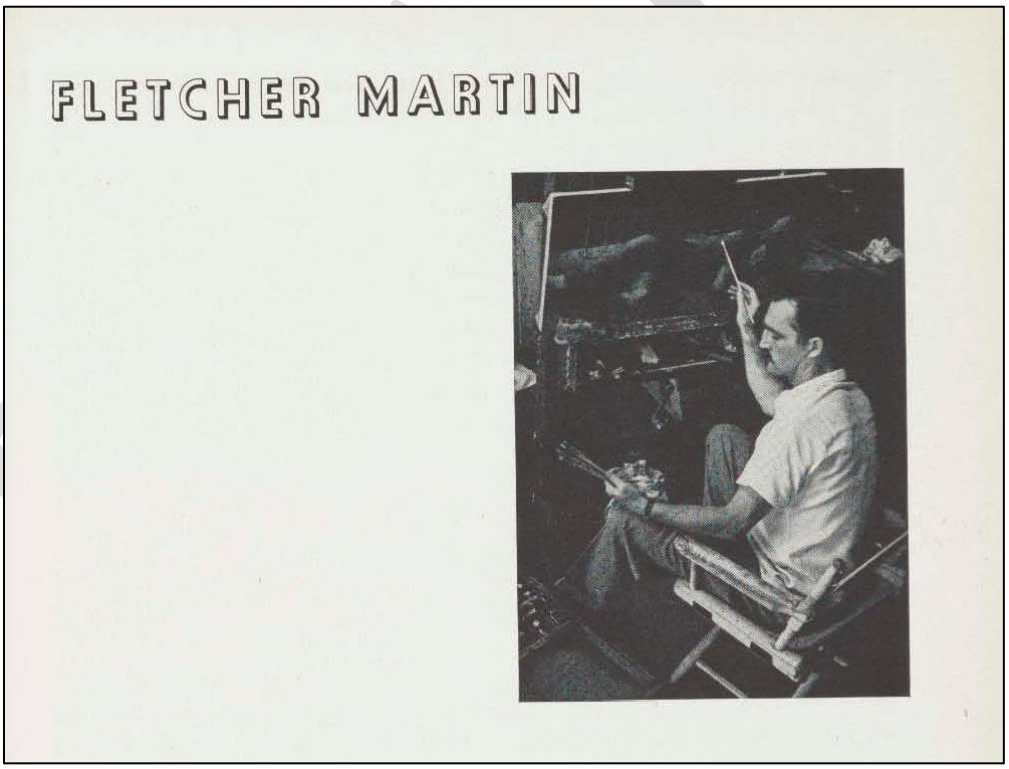

Figure 1 Image from the Museum of Modern Art's profile on Fletcher Martin. Source: *Americans, 1942: 18 Artists from 9 States* (New York: Museum of Modern Art, 1942).

Born in Colorado in 1904, Fletcher Martin was a self-taught artist who became nationally celebrated for his paintings, drawings, and murals. After serving in the Navy from 1922 to 1926, Martin settled in Los Angeles, where he went to work for a print shop. He began painting in the mid- to late-1920s.

His method for learning his craft, he reflected in1942, was observing as many artists as possible:

> I am practically self-taught, but the only real difference that makes is that I had to learn the same lessons in a different way –by making a pest of myself with my painter friends, watching (in the very beginning) everybody I could find who made things with a brush, from sign painters on up, and by looking at all the pictures and reproductions I could find. Now that I teach other students I am inclined to think that the really good ones, by their curiosity and intelligent skepticism, get their art education much the same way except that there is someone always present who is supposed to know a lot of the answers.[2]

The "painter friends" Martin would have learned from included many leading Social Realist artists of the day in Los Angeles. Martin quickly embraced the Social Realist themes and aesthetic favored by many muralists at the time. This affinity was advanced through a collaboration with renowned Social Realist artist David Alfaro Siqueiros (1896-1974) in 1933, when Martin assisted Siquieros on a fresco in Santa Monica.

In 1936, Martin's two-part mural at the North Hollywood High School Auditorium represented his first full-time, paid commission, funded by the Works Progress Administration.

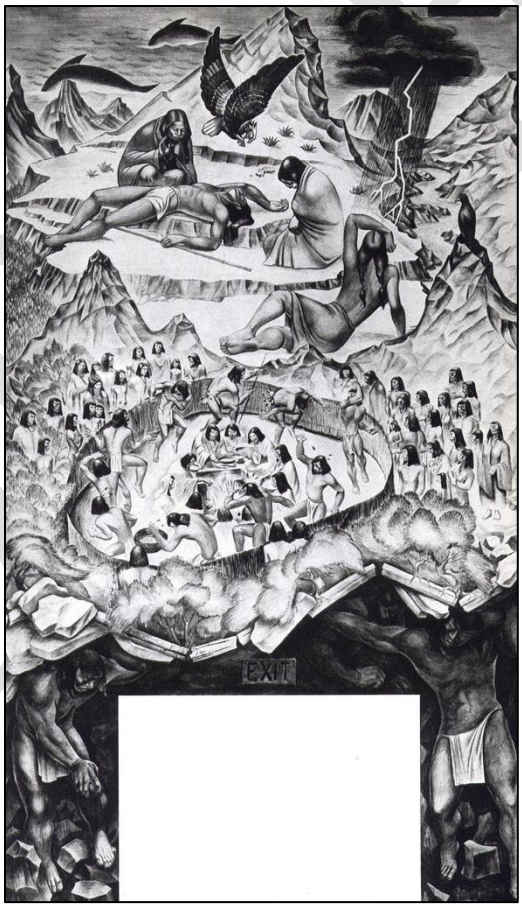

Figure 2 Fletcher Martin mural, North Hollywood High School Auditorium.
Source: Los Angeles Public Library Photographic Collection.

[2] This section draws on *Americans, 1942: 18 Artists from 9 States*, Miller, Dorothy C., Museum of Modern Art (New York: Museum of Modern Art, 1942), p. 98.

In spite of Martin's humble beginnings, national renown came quickly. Shortly after completing the mural at North Hollywood High School, Martin won a national award for his San Pedro Federal Building mural. In 1938, he create a three-panel bas-relief sculpture for a county courthouse in Idaho and began a two-year teaching position at Los Angeles's Art Center School. Following this teaching appointment, Martin continued to teach for at least three decades, as a visiting teacher in arts schools throughout California, including Mills College, Otis Art Institute, and Claremont College. One of his first national breakthroughs occurred in the late 1930s, when the Museum of Modern Art in New York purchased Martin's mural "Trouble in Frisco" for its permanent collection.

Martin passed away in 1979. His work is included in museum holdings throughout the United States, including the Metropolitan Museum; Museum of Modern Art; Whitney Museum of American Art; Library of Congress; Rockhill Nelson Gallery in Kansas City; Los Angeles Museum; Florida Gulf Coast Art Center; Cranbrook Museum; Davenport Museum; Denver Museum; Carleton College in Minnesota; Houston Museum; State University of Iowa; Tweed Gallery; Addison Gallery of American Art; Brandeis University; Pennsylvania Academy of Fine Arts; San Francisco Museum; Albany Institute of History and Art; Witte Memorial Museum; Butler Institute of American ; University of Maine.

The following biographical material was drawn from the Museum of Modern Art exhibition catalog for "Americans, 1942: 18 Artists from 9 States," an exhibition that introduced the work of regional artists to a national audience:

> Fletcher Martin was born at Palisade, Colorado in 1904, son of a country newspaper editor. His family moved to Idaho when he was six and he spent most of his time on a ranch there until 1922. After working as harvest hand, lumberjack and construction worker in the northwest, he joined the Navy in 1922. Paid off in 1926, he settled in Los Angeles with a job in the printing business which he held for nine years, attending art lectures at night. About 1927, he had started to draw and paint in his spare time, and later he assisted a muralist and became interested in print making.
>
> In 1935 the WPA Federal Art Project gave him an opportunity to devote all his time to painting. For the Project he painted murals in the North Hollywood High School. In 1937 he won a Section of Fine Arts competition for murals in the San Pedro (California) Post Office, and he has also decorated the Post Office at Lamesa, Texas.
>
> Martin taught painting at the University of Iowa in 1940-1941. He now holds the post of chairman of painting and drawing at the Kansas City Art Institute.
>
> Martin had his first one-man show at the San Diego Fine Arts Gallery in 1933. Later one-man exhibitions were held at the Los Angeles Museum in 1939 and at the Midtown Galleries, New York, in 1940 and 1941. He is represented in the collections of the Los Angeles Museum, the Kansas City Art Institute, the Metropolitan Museum of Art and the Museum of Modern Art in New York.3

[3] This section draws on *Americans, 1942: 18 Artists from 9 States*, Miller, Dorothy C., Museum of Modern Art (New York: Museum of Modern Art, 1942), p. 98.

The Museum of Modern Art profile also included the following brief note by Martin on his work:

> If I have a preference for any medium it is drawing. Of course drawing problems are present in all media but I mean drawing for its own sake. If I could afford to collect anything by the big boys it would be their drawings.
>
> When I have a subject in mind for a painting I always make a number of linear abstract designs based on the material of my subject. When this pleases me as pure design I draw on the canvas with the brush and thin color, setting in these abstract lines, and then develop the form contours around them. From that beginning I proceed with the development in form and color. I guess I work rather fast. Never more than ten days on an easel picture.
>
> Anything within our ken, I think, it possible material for a good picture, whether it be an idea, an experience or some object. The most commonplace subject need not be a commonplace picture.[4]

Conclusion and Recommendation

The District will continue exploring options and the feasibility of restoring the Fletcher Martin mural in the Auditorium.

In addition, the North Hollywood Auditorium is classified as a secondary contributor to the North Hollywood High School Historic District. This classification is due to the high degree of alterations on the exterior and interior of the Auditorium. The classification system of primary, secondary, and tertiary contributors was created by the District for master planning and project design purposes. The secondary classification corresponds with the definition provided in the 2016 memo: "Compared to primary character-defining buildings and landscapes, [secondary] contributing buildings and landscapes are not as visually prominent or retain moderate integrity."

All "contributing" elements of the historic district, whether primary, secondary, or tertiary, qualify as historical resources pursuant to the California Environmental Quality Act (CEQA).

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[4] This section draws on *Americans, 1942: 18 Artists from 9 States*, Miller, Dorothy C., Museum of Modern Art (New York: Museum of Modern Art, 1942), pp. 97-98.

C-3: Historical Effect Assessment

PROJECT EFFECT ASSESSMENT: CULTURAL RESOURCES
NORTH HOLLYWOOD HIGH SCHOOL
COMPREHENSIVE MODERNIZATION PROJECT

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EXISTING CONDITIONS

Since the mid-1990s, the North Hollywood High School campus has been the subject of several cultural resources studies that evaluated its historic significance under the criteria of the National Register of Historic Places and the California Register of Historical Resources. The earliest among these, a 1996 study by the Historic Resources Group in response to the 1994 Northridge Earthquake, concluded that the campus was eligible for listing in the National Register of Historic Places (McAvoy 1996:1). As such, the campus was subsequently placed in the California Register of Historical Resources (*ibid.*).

In recent years, the 1996 conclusion was confirmed by at least three additional studies, including two district-wide historic resources surveys conducted by the Los Angeles Unified School District (LAUSD) and the Getty Conservation Institute in 2001-2004 and by Sapphos Environmental, Inc., in 2013-2014, as well as a focus study on the North Hollywood High School campus by PCR Services Corporation in 2016, as summarized by Sapphos (2014:3, 75) and Jerabek et al. (2016). Furthermore, a barn in the high school's agricultural area was also found to be individually eligible for the California Register of Historical Resources during a 2011 study by ICF International (Jerabek et al. 2016:2).

Based on these previous evaluations and particularly in light of its current inclusion in the California Register of Historical Resources, the North Hollywood High School campus as a whole clearly meets the State of California's official definition of a "historical resource," as provided by the California Environmental Quality Act (CEQA; see PRC §5020.1(j) and Title 14 CCR §15064.5(a)(1)-(3)). A "substantial adverse change" in the historic significance or integrity of the campus, therefore, would constitute "a significant effect on the environment" under CEQA provisions (PRC §21084.1).

For CEQA-compliance purposes, the historic significance of the North Hollywood High School is embodied primarily by a group of buildings and landscape features concentrated in the southeastern portion of the campus, which date to the 1927-1949 era and exemplify the original Mediterranean Revival-style design by architects Myron Hunt and H.C. Chambers (Jerabek et al. 2016:2-5). Meanwhile, buildings and landscape features representing the growth of agricultural education at the high school in 1950-1971, concentrated in the westernmost portion of the campus, are also considered to be contributors to the significance (*ibid.*:7).

The locations of the contributing components of the campus are illustrated in Figure 1. Jerabek et al. (2016:8) classified these contributing components into three categories: primary contributors, secondary contributors, and tertiary contributors. With further adjustments made to the classification by LAUSD Historic Preservation Specialist Debi Howell-Ardila (2016:6) later in 2016, there are



Figure 1. Contributing elements to the historic significance of the North Hollywood High School campus. (Based on Jerabek et al. 2016:8 and Howell-Ardila 2016:6)

currently a total of three primary contributors, three secondary contributors, and two tertiary contributors to the historic significance of the campus as a whole, as listed below (see Jerabek et al. 2016 for further details):

Primary contributors (Fig. 2):

- Kennedy Hall (Building 1, constructed in 1927 and expanded in 1930)
- Library (Building 6, constructed in 1927)
- Landscaping and interior courtyards accompanying the 1927-1930 buildings



Figure 2. Primary contributors to the historic significance of the North Hollywood High School campus. *Clockwise from upper left*: main entrance to Kennedy Hall, view to the northwest; southeast corner of Kennedy Hall, view to the southwest; arcade in front of Library, view to the west; main courtyard between Kennedy Hall and Library, view to the northeast; courtyard between Library and Auditorium, view to the north; Library, view to the north. The current appearance of the courtyards is the result of extensive alterations in 2012-2013, as discussed further below. (Photographs taken on August 7, 2017)



Figure 3. Secondary contributors to the historic significance of the North Hollywood High School campus. *Clockwise from upper left*: Frasher Hall, view to the southwest; Auditorium, view to the north; Agricultural Area (South), view to the north; Barn in Agricultural Area (North), view to the northeast. (Photographs taken on August 7, 2017)

Secondary contributors (Fig. 3):

- Frasher Hall (Building 2, constructed in 1936)
- Auditorium (Building 7, constructed in 1927, altered)
- Agricultural Area, including the barn (Building 32, constructed in 1950) and three minor ancillary buildings/structures (Buildings 31, 46, and 58)

Tertiary contributors (Fig. 4):

- Randolph Hall (Building 5, constructed in 1949)
- Girls' Physical Education Building (Building 16, constructed in 1936)

In general, the primary contributors date to the original construction of the campus in 1927-1930 and retain excellent historic integrity, while the secondary and tertiary contributors were constructed in or after 1936 or, in the case of the Auditorium, was among the original group of buildings but has been significantly altered (Jerabek et al. 2016:6-7; Howell-Ardila 2016:2). Another building that also dates to 1927, housing the school's shop for industrial education (Building 8), has undergone so much alteration over the years, including an addition in 1938 and a reconstruction in 1951, that it is no longer considered a contributing element (Jerabek et al. 2016:3-4; 8).

PROJECT EFFECT ASSESSMENT

According to current project design, all of the contributing elements of the campus except those located in the Agricultural Area will receive various levels of direct—i.e., physical—or indirect—



Figure 4. Tertiary contributors to the historic significance of the North Hollywood High School campus. *Left*: Randolph Hall, view to the northwest; *right*: Girls' Physical Education Building, view to the south. (Photographs taken on August 7, 2017)

e.g., visual and atmospheric—impact from the proposed North Hollywood High School Comprehensive Modernization Project (Fig. 5). Among them, the Auditorium, Randolph Hall, and the Girls' Physical Education Building are slated for demolition, Kennedy Hall and Frasher Hall will undergo minor additions, while Kennedy Hall, the Library, and the landscaping associated with the 1927-1930 buildings, including the interior courtyards, may receive visual and atmospheric impact from the new construction. The potential effects of the project on these cultural resources are analyzed below to determine whether they would constitute "a substantial adverse change in the significance of a historical resource" (PRC §21084.1).

Demolition of Auditorium, Randolph Hall, and Girls' Physical Education Building

As mentioned above, the current project design calls for the demolition of Randolph Hall, the Girls' Physical Education Building, and the Auditorium, including the portion of the arcade along its southern façade and a 1936 Fletcher Martin mural that survives partially inside the Auditorium (Howell-Ardila 2016:3; Morse 2017). Of these buildings, the Auditorium is classified as a secondary contributor, while Randolph Hall and Girls' Physical Education Building are classified as tertiary contributors. The portion of the arcade, as an associated feature of the Auditorium and having itself been altered in the past (Jerabek et al. 2016:14; Howell-Ardila 2016:2), is also considered a secondary contributor to the historic significance of the campus, but this classification is somewhat complicated by the fact that it is the physical extension of the remainder of the arcade that continues in front of the Library and leads to Kennedy Hall.

The demolition of these three buildings would clearly have an effect on the overall historic integrity of the campus. However, as secondary and tertiary contributors, their removal would not critically diminish the historic value and architectural merits of the campus that qualify it for listing in the National Register of Historic Places and the California Register of Historical Resources. Therefore, the effect would not constitute a "substantial adverse change" in the historic significance of the campus as a whole under CEQA. Furthermore, the effect will be mitigated through the implementation of LAUSD's Standard Condition of Approval on Cultural Resources. In particular, Standard Condition (SC) CUL-4 requires the completion of a comprehensive recordation program on these buildings using procedures compatible to the appropriate level of the Historic American Buildings Survey, a typical mitigation measure in similar situations.

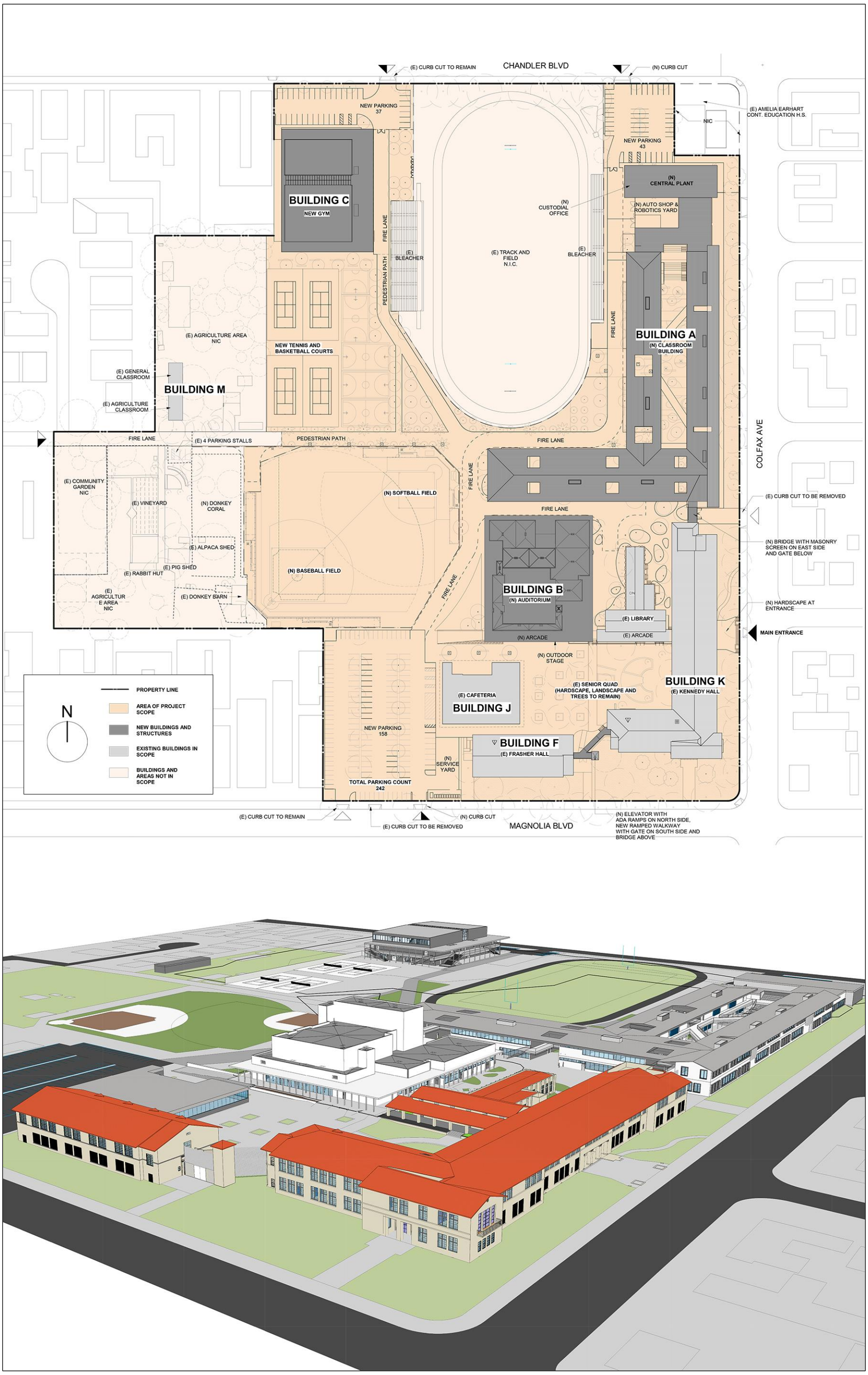

Figure 5. Schematic design concept for the proposed project (prepared by CO Architects, Los Angeles, August 2017). *Top*: project plan; *bottom*: aerial perspective.

Conclusion:

- *Less than significant effect with mitigation measure incorporated*

Additions to Kennedy Hall and Frasher Hall

The project design proposes the construction of an exterior elevator shaft at the eastern end of Frasher Hall and a covered walkway/bridge from this new addition to the southwestern end of Kennedy Hall (Fig. 5), measuring 946 square feet in total. The eastern end of Frasher Hall, facing Kennedy Hall and containing the primary entrance, exhibits some of the most notable character-defining features of the building, such as the pilasters and classical entablature adorning the doorway (Fig. 3), and is classified as a principal façade. In contrast, the southwestern end of Kennedy Hall is a part of the 1930 addition to the building and is relatively plain and utilitarian in character. Therefore, it is classified as a secondary façade of the building.

In summary, the portions of Kennedy Hall and Frasher Hall that will be impacted by the proposed addition comprise a secondary façade of a primary contributor and a primary façade of a secondary contributor. As such, their preservation is of secondary importance to the overall historic integrity of the North Hollywood High School campus. As with the demolition of the three buildings discussed above, the effect of the addition would not constitute a "substantial adverse change" in the historic significance of the campus.

Again, the effect will nonetheless be minimized through the LAUSD's Standard Conditions of Approval, especially SC-CUL-1 and SC-CUL-2, which require the inclusion of a qualified historic architect on the project design-build team in order to ensure compliance with *The Secretary of the Interior's Standards for the Treatment of Historic Properties* and *LAUSD Design Guidelines and Treatment Approaches for Historic Schools* (Grimmer and Weeks 2010; SWCA 2015; Weeks and Grimmer 2017). Specifically, the new addition will be simple and unobtrusive in design, subordinate to the original architecture, and compatible with it in size, scale, massing, materials, texture, and color, but readily distinguishable in visual appearance.

Conclusion:

- *Less than significant effect with mitigation measure incorporated*

Indirect Effects

Besides the direct impacts discussed above, the removal of the Auditorium and Randolph Hall and the construction of proposed Building A and Building B will occur in close proximity to the historic buildings that will remain (Fig. 5), which may cause a visual and atmospheric impact on the setting and feeling of these contributing components of the campus. In addition, the two interior courtyards (Fig. 2), both components of the landscaping that comprise a primary contributor, lie immediately adjacent to Building B (Fig. 5).

It is worth noting, however, that the current configuration and appearance of the courtyards are in fact of modern origin despite their historical age. The main courtyard surrounded by Kennedy Hall, the Library, the Auditorium, and Frasher Hall was reconfigured sometime between 1964 and 1972, which resulted in the prominent circular walkway in existence today (NETR Online 1964;



Figure 6. Comparison of interior courtyard configuration in October 2012 (*left*) and April 2013 (*right*). (Source: Google Earth 2012; 2013)

1972). More recently, its layout received further alteration in 2012-2013 (Fig. 6). Around the same time, the smaller courtyard between the Library and the Auditorium was completely rebuilt, and the two most prominent features in its present-day design, a circular plaza and a small amphitheater (Fig. 2), both date to that time (Fig. 6). Therefore, the historic integrity of the courtyard has been significantly compromised.

In order to prevent any adverse indirect effect on the integrity of the contributing elements of campus, the LAUSD has adopted Standard Conditions of Approval to ensure the compatibility of new constructions to the historic fabrics in design, height, proportion, and general appearance, as stated above. All proposed new components of the campus will be designed and constructed in compliance with *The Secretary of the Interior's Standards for the Treatment of Historic Properties* and *LAUSD Design Guidelines and Treatment Approaches for Historic Schools* (Grimmer and Weeks 2010; SWCA 2015; Weeks and Grimmer 2017).

Conclusion:

- *Less than significant effect*

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APPENDIX D

D-1 Phase I Environmental Site Assessment

D-2 Project Effect Assessment

D-1 Phase I Environmental Site Assessment



Phase I Environmental Site Assessment

North Hollywood High School
5231 Colfax Avenue
Los Angeles, California 91601

PREPARED FOR:

Los Angeles Unified School District

Office of Environmental Health and Safety

E2MANAGETECH
COLLABORATE | INNOVATE | DELIVER

PHASE I ENVIRONMENTAL SITE ASSESSMENT

North Hollywood High School
5231 Colfax Avenue
Los Angeles, California 91601
APN 2348-013-900

Prepared for:

Los Angeles Unified School District
Office of Environmental Health and Safety
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Figure 3 Site and Vicinity Map

APPENDICES

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Appendix B Site Reconnaissance Photographs

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Appendix D Historical Sources

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Appendix F Regulatory Agency Records

Appendix G Environmental Professional Qualifications

Executive Summary

E2 ManageTech, Inc. (E2) was retained by the Los Angeles Unified School District (LAUSD) to conduct a Phase I Environmental Site Assessment (ESA) for the property (Site) located at 5231 Colfax Avenue, Los Angeles, California 91601 (Figure 1). The Site is developed with the North Hollywood High School campus and comprises Los Angeles County Assessor's Parcel Number (APN) 2348-013-900.

This Phase I ESA was performed in accordance with the ASTM International (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E 1527-13. This version of the ASTM standard complies with the Federal All Appropriate Inquiry (AAI) rule (40 Code of Federal Regulations [CFR] Part 312 – Standards and Practices for All Appropriate Inquiries). The Phase I ESA included a visual observation of the property from public rights-of-way, observation of adjacent properties, environmental regulatory agency records review, review of available historical documents, review of available facility records, and interviews.

The purpose of this Phase I ESA is to investigate readily observable conditions existing within or in the vicinity of the Site at the time of inspection, and to identify any potential recognized environmental conditions (RECs). A REC, as defined in the ASTM standard, is as follows:

> *The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to 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 minimis conditions are not recognized environmental conditions.*

In addition to the identification of RECs, this report also aims to identify any historical recognized environmental conditions (HRECs) or controlled recognized environmental conditions (CRECs) in connection with the Site.

A HREC, as defined in the ASTM standard, is as follows:

> *A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.*

A CREC, as defined in the ASTM standard, is as follows:

> *A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls*

In summary, the following items were noted:

The following is a summary of the information obtained for the Phase I ESA.

- Based on a review of historical sources, the Site has been occupied by a school since its earliest development. The Site was vacant and/or undeveloped until 1921 when a single structure/building was observed via a 1921 Santa Monica topographic map. Sometime between 1921 and 1928, four large buildings, forming Lankershim High School, occupied the Site. By 1930, the Site was known as North Hollywood High School, as the school continued to expand. Since 1948, the buildings on the Site have expanded to match its current-day configurations.

  Present and historical uses of buildings include: paint shops, electric shops, metal shops, graphics arts shops, print shops, auto shops, and wood shops. Based on a review of LAUSD-provided plans and historical sources, the following uses of potential environmental concern were noted on the Site.

  - **West Gym:** Sanborn maps show the West Gym as having a transformer vault/switchboard room and a boiler room from 1955 through 1969. Evidence of these features was not noted at the time of the Site reconnaissance, and final dates of use are unknown.

  - **Computer Labs:** LAUSD plans show the Computer Labs as containing a metal shop, graphic art area, and electric shops in 1964. Storage tanks of unknown use were also shown in the plan. No information was available to indicate when these shop uses of the building were discontinued.

  - **Auto Shop:** LAUSD plans show the Auto Shop as being constructed in 1964. Vehicle hoists were installed at that time.

  - **Wood Shop:** LAUSD plans showed that the present-day Wood Shop was a mechanics shop with exterior auto shop yard before 1964. The planned removal of an incinerator and chimney from outside the northwestern portion of the building was also noted in 1964.

  - **Exterior Areas:** A 1927 plan from LAUSD indicated the presence of a cesspool, septic tank, drywell, and associated lines northeast of the current-day East Gym and south-southwest of the Locker Room.

    A 1930 LAUSD plan indicated a brick dry well in the courtyard north of the L-shaped Administration/Classroom building and a cesspool south of the L-shaped Administration/Classroom building in the yard north Magnolia Boulevard. A 1933 plan indicates that there were three septic tanks and six cesspools located north of the present day Library building, north of the present day Wood Shop building (former auto shop), and south of the present day Administration/Classroom building. The cesspools ranged from 37 to 40 feet deep. An additional "Chemical Cesspool" was shown on the east side of the present day Administration/Classroom Building. LAUSD plans dated 1964 indicate that a septic tank, located between the current-day Computer Labs and East Gym, was to be removed. A "concrete yard and grease pit," located between the current-day Wood Shop and Computer Labs was also indicated to be removed. If these features remain there is a potential to have been backfilled with undocumented fill, construction debris, or burn ash. LAUSD Facilities Asset Management should be contacted for a copy of the geophysical survey results in these areas when available.

    Sanborn maps show a print shop located in the area north of the present-day Cafeteria from 1955 to 1961.

- The following uses of potential environmental concern were noted during the Site reconnaissance:

  - **West Gym, East Gym and Auditorium basement, and Administration/Classroom basement:** Natural gas-fired hot water boiler systems were located in rooms that contained large unused boiler tanks, likely associated with historical boiler systems in these areas. The historical boilers previously delivered hot water or steam via pipes to heat the smaller buildings. Sumps and floor drains were also located on the boiler rooms and were likely used to collect water leaks. Based on the early development of the Site (1927), there is a potential for the boilers to have been fueled by bunker fuel or diesel stored in underground storage tanks (USTs). Although evidence of USTs was not observed in these areas, there is a potential for unused or abandoned features to be present. Further information should be gathered from the LAUSD Complex Project Manager (CPM) or other departments to ascertain the fuel source of the former boilers. It should also be noted that although the former boiler pipes and asbestos-containing thermal system insulation (TSI) has been removed from the boiler rooms, it is likely to remain in steam tunnels throughout the Site.

  - **East Gym and Auditorium:** A suspect incinerator/chimney with traces of ash was also observed in the basement of the East Gym and Auditorium. The vertical extent of the feature could not be determined at the time of observation. A locked room in the basement of the Auditorium Building was labeled as containing electrical equipment operated by Southern California Edison (SCE). It is our understanding that LAUSD schools in this area typically have electrical rooms with electrical transformers that service an entire campus. This room is suspected as containing similar equipment, and because electrical transformers were in some cases were filled with polychlorinated biphenyl (PCB)-containing dielectric fluid, the equipment should be inspected for evidence of leaks or staining.

  - **Auto Shop:** A three-stage clarifier was identified near the outside southwest corner of the Auto Shop building. No further information regarding the history or maintenance schedule of the clarifier was available. The Auto Shop also contains two double-post hydraulic lifts and one single-post hydraulic lift. The lifts operate on hydraulic pistons that reach approximately 8 feet deep. Oil staining was observed at the bottom trench associated with one of the adjustable double lifts. Further information regarding the history and maintenance status of the lifts was not available.

- The Environmental Data Resources, Inc. (EDR) environmental database report contained listings for LAUSD/North Hollywood High School on the HAZNET, RCRA-SQG, FINDS, ECHO, and EMI databases. Historical wastes included waste oil and mixed oil, acidic liquids, and off-specification aged/surplus organics; these types of wastes generated are consistent with that of an Auto Shop and science department laboratories found onsite. No violations were noted and further details were not provided. Hazardous wastes generated at the Earhart Continuation High School are located in the northeastern corner of the shared parcel with the school campus, but outside the Site boundaries.

- Several offsite properties of potential environmental concern were noted in the EDR environmental database report and historical records review. A laundry and cleaner facility addressed 5150 Colfax Avenue, located approximately 250 feet to the southeast of the Site, has been present from 1956 to 2013. Gasoline service stations were noted on the three adjacent corners at the intersection of Colfax Avenue and W. Magnolia Boulevard, for various periods from 1952 through 1991. Automobile repair activities have continued on the adjacent property to the south of the Site (11700 W. Magnolia

Boulevard) through the present day. No violations or records of cleanup cases were noted for these properties. The apparently early dates of the station closures, and lack of environmental database search listings for these properties, indicates that the UST removals may not have been removed under regulatory agency oversight. However, based on the distance (across the street) of the drycleaner and former service stations, there is a low likelihood that a vapor encroachment condition from these locations exists at the subject Site.

- The Site is located approximately 0.94 mile south-southwest of the San Fernando Valley – Area 1, a Superfund Site. There is potential contamination to groundwater and soil resulting from prewar, postwar, and current industrialization of the San Fernando Valley. However, based on its distance away from the Site, groundwater conditions, and ongoing treatment operations, San Fernando Valley- Area 1 is unlikely to have an adverse environmental impact on the Site.

- Requests to review file documents were submitted to the Los Angeles County Department of Public Health (LACDPH), Los Angeles Regional Water Quality Control Board (LARWQCB), Los Angeles Fire Department (LAFD), South Coast Air Quality Management District (SCAQMD), and the Department of Toxic Substances Control (DTSC). LARWQCB, LAFD, and DTSC reported that they had no files pertaining to the Site address. LACDPH records documented the historical use of hazardous materials and generation of wastes consistent with the science labs, Auto Shop, and paint supplies at the school. The SCAQMD records documented an inactive permit related to a "spray booth paint and solvent," but no date or other information was discernible due to poor resolution and quality of scan.

No data gaps were identified in the preparation of this Phase I ESA with the exception of the following:

- E2 was unable to gain access into an electrical equipment room located in the basement of the East Gym and Auditorium buildings. Based on the potential presence of electrical transformer that could be filled with PCB-containing oil, the inability to observe this area is considered a significant data gap

We have performed a Phase I ESA in accordance with the scope and limitations of the ASTM Practice E 1527-13 of the subject Site. Subject to the receipt of regulatory agency files and the data gaps discussed in Sections 9 and 10, this assessment has revealed no evidence of RECs at the Site, with the exception of the following:

1. Historical uses such as a metal shop, graphic arts area, and electric shops have the potential to have used solvents and other chemicals at the present day Computer Labs location.

2. Operations at the Auto Shop dating back to 1964 have likely used automotive chemicals, petroleum oils/products, and parts cleaners containing solvents. In addition, the hydraulic lifts and clarifier have the potential to have leaked petroleum products and other hazardous materials to the subsurface

3. The Wood Shop is the former location of the mechanics shops and an exterior grease pit, which may have experienced the use of used automotive chemicals, petroleum oils/products, and parts cleaners containing solvents.

4. Historical plans dated 1927 through 1964 showed the presence of septic tanks, drywells, and cesspools near the campus buildings. If these features remain there is a potential to have been backfilled with undocumented fill, construction debris, or burn ash. Releases of hazardous

materials or wastes to these features (particularly from the former shop areas) have the potential to have impacted the subsurface through leaks or through the designed leaching systems.

5. Ash and debris at the bottom of the suspected incinerator/chimney in the basement of the East Gym and Auditorium may contain COCs. In addition, operation of the incinerator may have resulted in aerial deposition of COCs in the surrounding area. An incinerator and chimney were also present outside the northwestern portion of the present day Wood Shop building in 1964.

6. The location of the former print shop, in the exterior areas near the present day cafeteria, has the potential to have been impacted by releases from printing chemicals or solvents.

7. Based on the age of the Site buildings, exterior soils may be impacted with lead due to the weathering of lead-based paint, and arsenic and/or organochlorine pesticides (OCPs) as a result of possible pesticide applications at the property. In addition to surficial applications, OCPs may be found at depth as a result of treatment or injection beneath buildings as a termiticide.

Section 1 Introduction

E2 ManageTech, Inc. (E2) was retained by the Los Angeles Unified School District (LAUSD) to conduct a Phase I Environmental Site Assessment (ESA) for the North Hollywood High School property (Site) located at 5231 Colfax Avenue, Los Angeles, California 91601 (Figure 1). The Site comprises Los Angeles County Assessor's Parcel Number (APN) 2348-013-900.

1.1 Purpose

The purpose of this Phase I ESA is to investigate readily observable conditions existing within or in the vicinity of the Site at the time of inspection, and to identify any potential recognized environmental conditions (RECs). A REC, as defined in the ASTM International (ASTM) standard, is as follows:

> *The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to 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 minimis conditions are not recognized environmental conditions.*

In addition to the identification of RECs, this report also aims to identify any historical recognized environmental conditions (HRECs) or controlled recognized environmental conditions (CRECs) in connection with the Site.

A HREC, as defined in the ASTM standard, is as follows:

> *A past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.*

A CREC, as defined in the ASTM standard, is as follows:

> *A recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.*

This ESA was performed according to the recommended guidelines established by ASTM Designation E 1527-13, "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process." This version of the ASTM standard complies with the Federal All Appropriate Inquiry (AAI) rule (40 Code of Federal Regulations [CFR] Part 312 - Standards and Practices for All Appropriate Inquiries).

Based on the fact that LAUSD owns the property and is not proposing land transfer at this time, it is understood that the user's purpose for this Phase I ESA is not to comply with AAI or to qualify for a Landowner Liability Protection (LLP) to Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability.

For the purpose of this report, hazardous substances and petroleum products are jointly referred to as "hazardous materials." The extent of research to identify RECs is limited by the scope of services.

1.2 Scope of Services

The Scope of Services for this ESA is set forth in a letter proposal from E2 to LAUSD dated May 26, 2016 (E2, 2016). The Scope of Services in the referenced proposal calls for the ESA to be conducted in accordance with ASTM E 1527 Standard Practice for Environmental Site Assessments and the AAI Rule (with modifications). The scope of this Phase I ESA included the following specific elements:

- Review of readily available public and private records of current and historical land use
- Title records review
- Review for prior releases of hazardous materials
- Environmental database search
- Review of relevant files of federal, state, and local agencies, as appropriate
- Observation of the Site during a walking reconnaissance
- Observations of adjacent properties from public rights-of-way
- Review of historical aerial photographs
- Interviews with current and previous owners and operators, as available
- Review of regulatory correspondence and environmental reports
- Report preparation

The above information was collected and evaluated and is included in this report, which summarizes our findings, opinions, and conclusions.

1.3 Environmental Professional Statement

We, the reviewers listed on the title page of this report, declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental professional as defined in §312.10 of 40 CFR § 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

1.4 Limiting Conditions and Deviations

Limiting conditions encountered during the Site reconnaissance, if any, are described in Section 6 of this report. No other limiting conditions were encountered during the preparation of this Phase I ESA. No deviations from the ASTM Practice E 1527-13 were noted in association with this Phase I ESA.

1.5 Limitations and Exceptions

This report and the associated work have been provided in accordance with the principles and practices generally employed by the local environmental consulting profession. This is in lieu of all warranties, expressed or implied.

E2's findings and opinions are based on information available from public sources on specific dates (historical photographs, maps, and regulatory agency files, lists, and databases); this information is changing continually and is frequently incomplete. Unless there is actual knowledge to the contrary, information obtained from interviews or provided to E2 by LAUSD has been assumed to be correct and complete. E2 does not assume any liability for information that has been misrepresented or for items not visible, accessible, or present on the Site at the time of the Site reconnaissance.

E2 cannot warrant or guarantee that not finding indicators of hazardous materials means that hazardous materials do not exist on the Site. There is no investigation thorough enough to preclude the presence of materials on the Site that presently, or in the future, may be considered hazardous. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants present and considered to be acceptable may, in the future, become subject to different regulatory standards and require remediation.

Where records indicate that prior remedial work or tank removals have occurred, there is a risk that the work may not have been performed correctly or completely. In these cases, if the regulatory agency has approved the closure of the tank or other work done, E2 has assumed that the work was done correctly and completely. Opinions and judgments expressed herein, which are based on E2 personnel's understanding and interpretation of current regulatory standards, should not be construed as legal opinions.

1.6 Significant Assumptions

E2 inferred the direction of shallow groundwater movement based on local topography, reported groundwater flow in vicinity of the Site by Environmental Data Resources, Inc. (EDR) and others, and our experience. Actual groundwater flow may be influenced locally by many factors beyond the scope of this report. Subsurface investigation would be necessary to determine Site-specific groundwater flow direction.

1.7 Special Terms and Conditions

No special terms or conditions apply to this Phase I ESA.

1.8 User Reliance

This document and the information, findings, opinions, and recommendations herein have been prepared for use solely by LAUSD, and no third party is intended as a beneficiary or intended to rely on this document or the information herein unless otherwise expressly stated in writing by E2.

Section 2 General Site Setting

The following sections describe the location and legal description, Site and vicinity general characteristics, current Site use and Site improvements, and current adjoining property use for the Site.

2.1 Location and Legal Description

The Site address is 5231 Colfax Avenue, North Hollywood, California, 91601. The Site consists of an approximately 22–acre area located in the North Hollywood community of the City of Los Angeles, Los Angeles County, California. The Site is bordered by Chandler Boulevard to the north, on the east by Colfax Avenue, and by Magnolia Boulevard to the south. The Site is located approximately 0.30 mile west of the Central Branch Tujunga Wash and Hollywood Freeway (State Route 170) and 0.73 mile north of the Ventura Freeway 101 (Figure 1).

A legal description of the property was not available.

2.2 Site Uses and Improvements

The Site is occupied by North Hollywood High School. At the time of the Site reconnaissance, the Site was mostly unoccupied as students were on summer vacation. Evidence of other current or past uses was not observed during the reconnaissance.

Ten permanent and approximately 20 modular buildings occupy the Site. The uses of the Site buildings include: classrooms, administration offices, cafeteria, gymnasiums, automobile shop, and wood shop. With the exception of the classrooms and administration offices, all buildings are single story. A main parking lot is present at the southwest quadrant of the Site. Athletic fields and courts are present on the northern half of the Site. For the purpose of this report, E2 has identified the following major buildings of interest (Figure 2): West Gym, East Gym, Computer Labs, Auto Shop, Wood Shop, Classroom 1, Classroom 2, Cafeteria, Auditorium, Library, Locker Room, Music, and Administration/Classroom.

2.3 Heating and Cooling Systems

The majority of the Site buildings are heated and cooled by roof or wall-mounted electric and/or natural gas heating, ventilation, and air conditioning (HVAC) units. Hot water boilers are used to heat the auditorium and Main Gym. The office areas of the building are heated and cooled by wall-mounted electric HVAC units.

2.4 Potable Water Supply

The Site is provided potable water by the Los Angeles Department of Water and Power (LADWP).

2.5 Sewage Disposal System

The Site is provided sewer service by the City of Los Angeles Department of Public Works (LADPW).

2.6 Vicinity Characteristics

Land uses in the vicinity of the Site are predominantly single-family or multi-family residential. Limited commercial/retail and gasoline service station uses are present east and southeast of the Site at the intersection of Colfax Avenue and Magnolia Boulevard.

2.7 Current Uses of Adjoining Properties

The adjacent property uses observed at the time of the Site reconnaissance are listed below and shown in Figure 3.

North: Chandler Boulevard followed by multi-family residences.

East: Colfax Avenue followed by mostly residential homes and Tailor'd Made Barbershop addressed at 5212 Colfax Avenue.

South: Magnolia Boulevard followed by a mixture of residential properties, limited commercial/retail, and what appears to be a former gasoline service station/automobile repair shop. Commercial/retail businesses at the intersection of Colfax Avenue and Magnolia Boulevard include Yum Yum Donuts, Taco Bell restaurant, and what appears to be a former automobile service station addressed at 11699 West Magnolia Boulevard, 11694 West Magnolia Boulevard, and 11700 West Magnolia Boulevard, respectively.

West: Multi-family residences followed by Radford Avenue.

Section 3 Physical Setting Sources

3.1 Site Topography

The Site is shown on the U.S. Geological Survey (USGS), Van Nuys 7 1/2 – minute topographic (USGS, 2012) at an elevation of approximately 640 feet above mean sea level (msl). The topography in the Site vicinity is relatively flat and slopes gently to the southeast

3.2 Regional Geology and Hydrogeology

The Site lies within the Transverse Ranges Province, in the Los Angeles Basin (CGS, 2002). The Site is underlain by young and older alluvial deposits consisting of interbedded silts, sands and gravels from the nearby Santa Monica Mountains. Sediments underlying the alluvium correspond to marine sands and shales from the San Pedro, Inglewood, and Monterey Formation (Dibblee, T.W., and Ehrenspeck, H.E., ed., 1991; Yerkes, Robert and Russell H. Campbell, 2005). According to the United States Geological Society Quaternary Faults Map (2016), a possible unnamed fault traverses the Site from northeast to southwest (USGS, 2016).

Groundwater in the valley occurs in two water-bearing units, Holocene and Pleistocene alluvium and the Saugus Formation. The two aquifers are mainly unconfined. The thickness of the Holocene alluvium ranges from 100 to 900 feet in thickness, while the Saugus formation ranges from 2,000 feet to 6,400 feet in the thickest part of the formation, near the central part of the basin (DWR, 2004). E2 reviewed the Los Angeles County Department of Public Works (LACDPW) groundwater monitoring well database (2016a) for available groundwater monitoring well levels for two properties located approximately 700 feet north and 500 feet south of the Site for information on groundwater depth. Data from 2009 reported groundwater to be encountered at depths ranging from 133.7 to 154.7 feet below ground surface (bgs) (LACDPW, 2016b). Based on topographical and geological observations, groundwater is estimated to flow towards the north and east near the Site in the direction of the Central Branch Tujunga Wash.

Section 4 User-Provided Information

The ASTM Practice suggests the ESA user provide documents to the ESA preparer. The following sections describe the documents provided to E2 by LAUSD. The following information was obtained through personal communications and other records provided by the user. The User-Provided Information is used to establish the AAI requirements prior to a property transaction. However, LAUSD already owns the property and is not proposing land transfer at this time. The results of the Phase I will be used for construction planning. For these reasons LAUSD elected to forgo conducting an environmental lien or activity and use limitations search and completing the user questionnaire for this property.

4.1 Reason for Performing Phase I

E2 was retained by LAUSD to provide this Phase I ESA and environmental documentation review as part of the due diligence activities for future improvement projects.

4.2 Ownership and Title Records

As discussed in the Scope of Services in the letter proposal, an environmental lien search and title review was not conducted by E2. The Site is owned by LAUSD. Environmental Liens or Activity and Use Limitations

An environmental lien search was not conducted by E2. Our research and review of the environmental database search report did not suggest any environmental liens or activity and use limitations (AULs) associated with the Site.

4.3 Specialized Knowledge

No specialized knowledge about the Site was available from LAUSD.

4.4 Valuation Reduction for Environmental Issues

No information regarding valuation reduction for environmental issues for the Site was available from LAUSD.

4.5 Commonly Known or Reasonably Ascertainable Information

Other than the personnel interviews described in Section 5 of this report, no commonly known or reasonably ascertainable information about the Site was available from LAUSD.

4.6 Other Information or Documents

LAUSD provided E2 with copies of site plans showing portions of the campus for years 1927, 1930, 1933, 1938, 1949, 1954 and 1964. Few details are discernible on the Site plans; however, notable features are as follows:

- A 1927 plan indicates that there is a cesspool, septic tank, drywell, and associated lines northeast of the current-day East Gym and south-southwest of the Locker Room. A 1930 plan indicates that there is a brick dry well in the courtyard north of the L-shaped Administration/Classroom building and a cesspool south of the L-shaped Administration/Classroom building in the yard north of Magnolia Boulevard. Further information regarding these features was not provided, and the present-day status is unknown. It is our understanding that these features were recently identified by the LAUSD Facilities

Asset Management, and that a geophysical survey to locate them was planned using ground penetrating radar (GPR). The results of this survey were not available as of the date of this report.

- An LAUSD Piping Plan, dated 1933, indicates that there were three septic tanks and six cesspools to the north of the "Cafeteria" building (current-day Library building), to the north of the "Shop" (identified in the 1954 plans as an "Auto Shop Yard" and "Shop and Mechanics," current-day Wood Shop building), and to the south of the "Main Building" (current-day Administration/Classroom building). Two septic tanks were described as measuring approximately 17,200-gallon in capacity and one septic tank was approximately 6,650-gallon in capacity. Each of the septic tanks was connected to one or more cesspools identified as having depths that ranged from 37 to 40 feet. An additional "Chemical Cesspool" was shown on the east side of the present day Administration/Classroom Building. An LAUSD Roofing Plan, dated 1936, showed the two cesspools to the east of the present day Library Building as having been filled. No further information regarding the present-day statuses of the septic tanks and cesspools was available.

- The 1954 plans indicates that an "Auto Shop Yard" was located north and adjacent to the "Shop and Mechanics" building (current-day Wood Shop). According to the 1964 plans, the "Auto Shop Yard" and all features related to the "Shop and Mechanics" building were relocated at that time to the "New Auto Shop Building" that resembles current-day Auto Shop configuration. The "New Auto Shop Building" has four "hoists" located in the center of the building and an "Existing Pipe Tunnel" running diagonally to the center of the building approximately sectioning off the southeast quadrant of the building. The uses of the "Existing Pipe Tunnel" are unknown; however, it is likely to be associated with the steam tunnels discussed in Section 6.

- The 1964 plans indicate that a septic tank, located between the current-day Computer Labs and East Gym, was to be removed. A "concrete yard and grease pit," located between current-day Wood Shop and Computer Labs was also indicated to be removed. The use of the grease pit was not described but may have been associated with the "Auto Shop Yard" and "Shop and Mechanics" observed in the 1954 plans. The present-day status of the septic tank and the grease pit is unknown. This plan also showed the planned removal of an incinerator and chimney from outside the northwestern portion of the building.

- According 1964 plans, the current-day Computer Labs building was formerly split into thirds. From west to east, the thirds were occupied by the "Metal Shop," "Graphics Arts Shop," and "Electric Shop." A welding booth and spray booth were observed on the southeast corner and northwest quadrant of the "Metal Shop," respectively. The types of hazardous materials and chemicals present at the "Metal Shop" were not noted. The plans also indicated three storage tanks located in the northwest corner of the "Electric Shop" third; the contents of these tanks were not specified and it was not indicated whether they were aboveground or belowground. No information was available to indicate when these shop uses of the building were discontinued.

- Hazardous waste manifests from 2011 to 2014 showed wastes that included polychlorinated biphenyls (PCB) ballasts, asbestos, waste flammable liquids, and non-Resource Conservation and Recovery Act (RCRA) hazardous waste liquid (lab pack, oil and water, antifreeze, oil, used oil filters).

No information regarding the current disposition of these features was available. Copies of the site plans are included in Appendix A. No additional documents and/or Site plans were provided by LAUSD.

Section 5 Interviews

The following sections provide a summary of interviews conducted as part of this Phase I ESA.

5.1 Interview with the Owner

E2 spoke with Mr. Richard Mendoza, Plant Manager for the Site on June 14, 2016. Mr. Mendoza stated that he has worked at the facility for 14 years. Mr. Mendoza had no knowledge of prior occupants or uses of the Site. Mr. Mendoza had no knowledge of any aboveground storage tanks (ASTs) or underground storage tanks (USTs) having been present at the Site, but acknowledged that some may have previously been associated with the historical boilers. He stated that small amounts of hazardous waste are sometimes generated by the Science Department, which is handled and disposed under LAUSD Office of Environmental Health and Safety (OEHS) oversight. He noted that small amounts of waste oil and other automotive chemicals are used in the auto shop. Further information regarding the auto shop is provided in Section 6. Mr. Mendoza had no knowledge of environmental permits for the Site. Mr. Mendoza had no knowledge of any spills of hazardous materials or environmental cleanups having taken place at the Site.

5.2 Interview with Site Manager

E2 interviewed Mr. Mendoza, the Plant Manager of the Site. The results of this interview are discussed in Section 5.1 above.

5.3 Interviews with Occupants

E2 interviewed Mr. Mendoza, the Plant Manager of the Site. The results of this interview are discussed in Section 5.1 above.

5.4 Interviews with Local Government Officials

E2 requested a review of available records from the Los Angeles County Department of Public Health (LACDPH), Los Angeles Regional Water Quality Control Board (LARWQCB), Los Angeles Fire Department (LAFD), South Coast Air Quality Management District (SCAQMD), and the Department of Toxic Substance Control (DTSC). Based on the results of these record searches (see Section 9), it was judged that interviews with government officials were not necessary.

5.5 Interviews with Others

No other interviews were conducted in connection with this Phase I ESA. No other personnel familiar with the Site were available to be interviewed.

Section 6 Site Reconnaissance

E2 conducted the Site reconnaissance on June 14, 2016. Copies of photographs taken during the reconnaissance are included in Appendix B. Documents from the Site reconnaissance, if any, are typically provided in Appendix C. However, no documents were provided during the reconnaissance for this Site.

6.1 Methodology and Limiting Conditions

The visual reconnaissance was completed by Mr. Kevin Lin from E2, who was accompanied by Mr. Richard Mendoza, Plant Manager. The reconnaissance was conducted by touring each functional area of the school buildings' interior, touring the exterior of the buildings, and the remainder of the campus. Adjacent properties were observed from public thoroughfares and strategic vantage points including the roof of the Site building. At the time of the Site reconnaissance, the weather was clear with a temperature of approximately 70 degrees Fahrenheit (°F).

A locked room in the basement of the Auditorium Building was labeled as containing electrical equipment operated by Southern California Edison (SCE). It is our understanding that LAUSD schools in this area typically have electrical rooms with electrical transformers that service an entire campus. Electrical transformers have in some cases been filled with PCB-containing dielectric fluid. These rooms are suspected as containing similar equipment; however, access was not available as of the date of this report. No other limiting conditions were experienced during the Site reconnaissance.

6.2 General Site Setting

The Site is occupied by North Hollywood High School. At the time of the Site reconnaissance, the Site was mostly unoccupied, as students were on summer vacation. Evidence of other current or past uses was not observed during the reconnaissance.

Ten permanent and approximately 20 modular buildings occupy the Site. The uses of the Site buildings include: classrooms, administration offices, cafeteria, gymnasiums, automobile shop, and wood shop. With the exception of the classrooms and administration offices, all buildings are single story. A main parking lot is present at the southwest quadrant of the Site. Athletic fields and courts are present on the northern half of the Site. For the purpose of this report, E2 has identified the following major buildings of interest (Figure 2): West Gym, East Gym, Computer Labs, Auto Shop, Wood Shop, Classroom 1, Classroom 2, Cafeteria, Auditorium, Library, Locker Room, Music, and Administration/Classroom.

6.3 Exterior and Interior Observations

The following table presents a summary of the observations made during the Site reconnaissance. Descriptions of the observations with "Yes" answers, if any, are provided after the table.

Table 1

Summary of Site Reconnaissance Observations

POTENTIAL ENVIRONMENTAL CONDITION	Visually Observed or Reported?		NOTE NOS.
	NO	YES	
Hazardous substances/Petroleum products		X	1
Hazardous waste		X	1
ASTs	X		
USTs	X		
Odors	X		
Pools of liquid	X		
Drums		X	2
Unidentified Substance Containers		X	2
Polychlorinated biphenyls		X	3
Stains or corrosion		X	4
Drains and sumps		X	4
Pits/ponds/lagoons		X	4
Stained soil/pavement	X		
Stressed vegetation	X		
Solid waste	X		
Wastewater/storm water		X	5
Wells	X		
Septic Systems	X		
Other		X	6, 7, 8

1. Small quantities of chemicals observed at the Site's Administration/Classroom building at the time of the Site reconnaissance are consistent with chemicals typically (nitrates, oxides, acids, bases, etc.) found in chemistry and biology labs of science departments. Waste chemicals are lab packed and/or stored in plastic totes ready for pickup. The quantities of waste chemicals were unknown at the time of

the Site reconnaissance as the quantities are recorded and managed by LAUSD Office of Environmental Health and Safety (OEHS).

One 55-gallon drum labeled "non-RCRA Hazardous Waste Liquid (Oil)" and two unlabeled 55-gallon drums (one of which appears to be a waste oil drum) were observed in the Auto Shop. One hydraulic cylinder/oil reservoir of approximately 8 gallons in size was observed in one of the hydraulic lift pits; this appeared to be in operating condition with no obvious signs of leaks.

2. As stated above, there are two unlabeled 55-gallon drums and one poorly labeled "non-RCRA Hazardous Waste Liquid (Oil)" 55-gallon drum located win the Auto Shop. One of the unlabeled drums appeared to be a waste oil drum as indicated by the oil catcher pan nearby. No representative of the Auto Shop was available to provide a description of the quantities of automotive chemicals generated in the auto shop. However, no evidence of leaks or stains was noted in the area of the collection drums or the remainder of the auto shop. In addition, there were two unlabeled 55-gallon steel drums that appeared to be sawdust drums observed beneath a small industrial-sized cyclone outside of Woodshop Building. The sawdust is not considered a hazardous material or waste.

3. Small transformers and electrical panels were observed in the Administration/Classroom building. No oil staining was observed on the concrete pad or flooring beneath the electrical transformers

4. At the time of the Site reconnaissance, it was observed that the Auto Shop was equipped with two double-post hydraulic lifts and one single-post hydraulic lift; a total of five posts. The installation dates of the lifts are unknown, but the Auto Shop has been present since 1966. At the time of the Site reconnaissance, a representative of the Auto Shop was not available to provide a description of the activities that take place in the Auto Shop and one of the double-post hydraulic lifts was covered with a vehicle not accessible for observation. The double-post hydraulic lift that was accessible for observation works with the front post operating inside a trench (approximately 8 feet in depth) that appears to have staining at the concrete bottom. An approximately 20-gallon hydraulic reservoir was observed below grade on one end of the pit; it appeared to be in working condition with no leaks. An approximately 50-gallon hydraulic reservoir and electric motor were observed near the single-post hydraulic lift and did not appear to be leaking.

   An approximately 4-foot-deep, three-stage clarifier was observed outside by the southwest corner of the Auto Shop building. Only one chamber of the clarifier could be removed and the contents appeared to be water. At the time of the Site reconnaissance, Mr. Mendoza had no knowledge of the use, contents, age, or maintenance of the clarifier. A representative of the Auto Shop was also unavailable for an interview.

5. Stormwater catch basins were noted throughout paved areas of the Site to divert storm water offsite. Mr. Mendoza noted that there was no treatment of storm water onsite.

6. A brick-lined chute containing traces of ash, indicating a possible incinerator/chimney, was observed in the basement of the Auditorium. The vertical extent of the suspect incinerator could not be determined at the time of the Site reconnaissance, but it did not appear to be open at the top. The feature could have also acted as a flue for one of the three former boilers that were used to heat

steam that ran through the former steam tunnels; Mr. Mendoza stated that the school stopped using the steam tunnels nearly 10 years ago.

7. An elevator and associated hydraulic fluid reservoir in an adjoining room were observed in the north end of the Administration/Classroom building. Building. The reservoir was located within a room named “machine shop.” The elevator appeared to be in working condition and the reservoir showed no evidence of leaks. The underside of the elevator was not available for inspection and it is unknown whether the design consists of an underground cylinder, aboveground telescoping cylinder(s), or other system.

8. Hot water boilers were observed at the basement of the Administration/Classroom building, basement of the Auditorium, and in the boiler room of the West Gym. Sumps and/or floor drains were observed in the vicinity of these boilers; the purpose of the sumps and/or floor drains is to prevent standing water in the boiler rooms and properly discharge the water. At the time of the Site reconnaissance, Mr. Mendoza had no knowledge of where the collected water was discharged to. No evidence chemicals or petroleum products was noted on the surface of the water in these sumps.

Section 7 Historical Use Information

The following subsections provide summaries of the historical sources that were reviewed.

Table 2

Site Historical Usage Summary

Time Period	Land Usage	Reference
Prior to 1921	Undeveloped	Topographic Maps
1921	One structure/building located on the Site	Topographic Maps
1927-1928	Lankershim High School and four large buildings occupy the south-southeast quadrant of the Site	Aerial Photographs, Sanborn Maps
1930	The Site is known as North Hollywood High School	City Directories
1948	Known as North Hollywood High School with more buildings similar to current-day configurations	Sanborn Maps
1954 - 1964	Auto Shop was relocated from its original location (north and adjacent to the current-day Wood Shop) to its current-day configuration. The Computer Lab was occupied by a metal shop, graphics arts shop, and electric shop.	User-Provided Information
1970 - 1972	Site resembles current day North Hollywood High School configurations	Aerial Photographs, Topographic Maps

7.1 Aerial Photographs

E2 personnel reviewed aerial photographs of the Site provided by EDR (EDR, 2016a). Aerial photographs assist in the identification of Site features and outdoor activities of potential environmental concern. Copies of these aerial photographs are provided in Appendix D. The following is a summary of the aerial photographs reviewed.

1928: The southern portion of the Site appears to be developed with large buildings partially resembling current-day configurations of North Hollywood High School. Most of the Site remains undeveloped and/or appears to be used for dry farming. The northern portion of the Site appears to be cleared of vegetation for an athletic track. Surrounding

properties are either undeveloped or used for agriculture. Magnolia Boulevard, Colfax Avenue, and Chandler Boulevard bordering the south, east, and north sides of the Site are in their present-day locations and configurations, respectively. The Central Branch Tujunga Wash running diagonally (southeast to northwest) is observed approximately 0.20 mile northeast of the Site.

1938: Additional to the existing buildings observed in the 1928 photograph, approximately a dozen buildings of smaller size are present on the southern portion of the Site. A track and field now occupies the northern portion of the Site. The western portion of the Site remains developed for agricultural use. Some properties south and east of the Site have been developed for residential use.

1940: The Site appears similar to the 1938 photograph. Majority of the surrounding properties have been developed for residential use.

1952: Majority of the Site and vicinity appears similar to the 1940 photograph. The western portion of the Site is cleared of agriculture and occupied by buildings partially resembling current-day configurations of North Hollywood High School. The adjacent property to the east of the Site on the northeast corner of the Colfax Avenue and Magnolia Boulevard intersection is developed with an L-shaped commercial building that suggests a possible service station. The adjacent property to southwest, beyond Magnolia Boulevard, is developed with a diagonally-oriented building that suggests a service station.

1954 The Site appears similar to the 1952 photograph.

1964: More buildings (permanent and modular) are observed on the western portion of the Site. The L-shaped service station building observed to the east of the Site in 1952 has been remodeled to a rectangular-shaped building. The diagonally-oriented building, located on the southwest corner of the Colfax Avenue and Magnolia Boulevard intersection, is no longer present and a wedge-shaped building resembling current-day configurations now occupies the parcel. This shape is also similar to a service station. The adjacent properties otherwise appear similar to the 1954 photograph.

1970: The addition of more permanent buildings, structures, and pavements are observed. The Site now resembles current-day configurations. The adjacent properties appear similar to the 1964 photograph. Hollywood Freeway 170 running along the Central Branch Tujunga Wash has been constructed.

1977: The Site and adjacent properties appear similar to the 1970 photograph. The property to the east of the Site on the northeast corner of the Colfax Avenue and Magnolia Boulevard intersection is free of buildings and vacant.

1989: The Site and adjacent properties appear similar to the 1977 photograph. The property adjacent and to the east of the Site on the northeast corner of the Colfax Avenue and

Magnolia intersection is now occupied by rectangular building similar to the current-day Yum Yum Donuts addressed at 11699 West Magnolia Boulevard.

1994: The Site and adjacent properties appear similar to the 1989 photograph.

2002: The Site and adjacent properties appear similar to the 1994 photograph.

2005: The Site and adjacent properties appear similar to the 2002 photograph.

2009: The Site and adjacent properties appear similar to the 2005 photograph.

2010: The Site and adjacent properties appear similar to the 2009 photograph.

2012: The Site and adjacent properties appear similar to the 2010 photograph.

7.2 Fire Insurance Maps

E2 contracted with EDR to research the availability of Sanborn fire insurance maps for the Site and vicinity. EDR provided Sanborn fire insurance map coverage for 1927, 1948, 1955, 1956, 1958, 1960, 1961, 1966, and 1969 (EDR, 2016e). The following is a summary of the maps reviewed:

1927: Sanborn fire insurance map coverage limited to the south-southeastern portion of the Site bordering Colfax Avenue and Magnolia Boulevard. Lankershim High School is present with four large buildings. The building labeled as “Shops” is in the location of the current-day Wood Shop building.

1948: Sanborn fire insurance map coverage still limited to the south-southeastern portion of the Site. The high school is now known as North Hollywood High School. The Site appears similar to the 1927 map, with the addition of approximately 10 modular buildings and two larger permanent buildings. Uses of the modular buildings include: woodworking, classrooms, paint shop, and lunch basket/shed.

1955: The high school expands to occupy more of the Site with addition of more buildings (permanent and modular). Building uses include: mechanics building, auto repair, tin shop, classrooms, print shop, woodworking, gyms, lunch areas, and offices. The mechanics buildings/auto repair/tin shop building is located near the center of the Site. A gym, similar to the current-day West Gym configuration, is observed on the northwest quadrant of the Site; a boiler room and transformer vault is noted on the southwest and northwest corners of the gym, respectively. The previously described “Shops” building (current-day Wood Shop building) identified first in 1927 is now known as the “Mechanics Building” with a tin shop, electric shop, and an auto repair area. A rectangular “Print Shop” building is also observed adjacent on the southeast corner of the “Mechanics Building.”

1956: The Site appears similar to the 1955 map.

1958: The Site appears similar to the 1956 map.

1960: The Site appears similar to the 1958 map.

1961: The Site appears similar to the 1960 map.

1966: The rectangular "Print Shop" building is no longer present and the Cafeteria building, in its current-day configuration, is now located south of the Wood Shop building and east of the present day Classroom 1 (then known as the Social Arts Building). The rest of the Site appears similar to the 1961 map.

1969: The Site appears similar to the 1966 map. What appears to be a gas and oil station is observed on the adjacent property to the east across Colfax Avenue (11699 W. Magnolia Boulevard).

7.3 Topographic Maps

E2 personnel reviewed historic topographic maps of the Site and vicinity available through EDR (EDR, 2016b). The features observed in their review are presented in the following table:

Table 3

Summary of Topographic Maps Reviewed

Date	Description	Scale	Sheet Name
1894	The Site is mapped in undeveloped land. Small structures are mapped on surrounding properties. Railroad tracks running east-and-west are located north of the Site. Central Branch Tujunga Wash is observed northeast of the Site running diagonally.	15-minute	Los Angeles
1896	The Site and surrounding properties appear similar to the 1894 "Los Angeles" map.	15-minute	Santa Monica
1898	The Site and surrounding properties appear similar to the 1896 "Santa Monica" map.	15-minute	Santa Monica
1900	The Site and surrounding properties appear similar to the 1898 "Santa Monica" map.	15-minute	Los Angeles
1902	The Site and surrounding properties appear similar to the 1900 "Los Angeles" map.	15-minute	Santa Monica

Date	Description	Scale	Sheet Name
1921	More development (structures and roads) on the surrounding properties. More railroad tracks are parallel north of the Site. There appears to be one structure located on the south side of the Site closest to Magnolia Boulevard.	15-minute	Santa Monica
1926	The Site appears similar to the 1921 "Santa Monica" map. The railroad tracks are labeled Pacific Electric. Development continues in the surround properties.	7.5-minute	Burbank
1948	A school is observed on the Site; a cluster of buildings on the southern portion of the Site. Large buildings and a track similar to current-day configurations are on the Site. The Site is located in a developed area.	7.5-minute	Burbank
1953	The Site appears similar to the 1948 "Burbank" map. More buildings are observed on the Site as the school expands.	7.5-minute	Van Nuys
1966	The Site appears similar to the 1953 "Van Nuys" map. Additions and adjustments of buildings are observed as the school continues to expand and resemble closer to current day configurations. Hollywood Freeway 170 running along the Central Branch Tujunga Wash is observed.	7.5-minute	Van Nuys
1972	The Site appears similar to the 1966 "Van Nuys" map. Minor additions and adjustments of buildings are observed as the school resembles current day configurations.	7.5-minute	Van Nuys
2012	The surrounding properties and roads appear similar to the 1972 "Van Nuys" map. No buildings or structures are indicated on the map.	7.5	Van Nuys

7.4 City Directories

E2 personnel reviewed historic city directory listings of the Site and vicinity available through EDR (EDR, 2016c). A summary of listings for the Site is presented in Table 4, below.

Table 4

Summary of City Directory Listings

Date	Source	Site Address	Listing
1930 - 1940	Los Angeles Directory Co.	5231 Colfax Ave	North Hollywood High School
1950	Pacific Telephone	5231 Colfax Ave	Baskin Jack Inc.; Los Angeles City Board of Education Administrative offices; Los Angeles City Board of Education Senior High Schools; North Hollywood Guidance Center Branch
1956	Pacific Telephone	5231 Colfax Ave	North Hollywood Guidance Central Branch; North Hollywood High School; North Hollywood High School Adult Evening School; North Hollywood PTA Guidance Center; North Hollywood PTA School Health Center; Presson Helen V.
1962	Pacific Telephone	5231 Colfax Ave	North Hollywood High School; North Hollywood High School Adult Evening School; North Hollywood High School Student Body; North Hollywood PTA School Health Center; North Hollywood PTA Dental Clinic
1970	Pacific Telephone	5231 Colfax Ave	Ephebian Society; North Hollywood Adult School; North Hollywood High School; North Hollywood PTA Dental Clinic
1975	Pacific Telephone	5231 Colfax Ave	Community Adult School

Date	Source	Site Address	Listing
1980	Pacific Telephone	5231 Colfax Ave	North Hollywood High Community Adult School
1985	Pacific Bell	5231 Colfax Ave	Community Adult School; Day School; North Hollywood Ice Co.
1991	Pacific Bell	5231 Colfax Ave	Community Adult School; Day School; North Hollywood Ice Co.; North Hollywood High School Information Line
1995	Pacific Bell	5231 Colfax Ave	Community Adult School; Day School; North Hollywood High; North Hollywood High School Information Line; Red Cross Shelter
2001	Haines & Company, Inc.	5231 Colfax Ave	North Hollywood High Community Adult School; North Hollywood High Day School; North Hollywood High School Info
2008	Cole Information Services	5231 Colfax Ave	Los Angeles Unified School District; North Hollywood High School
2013	Cole Information Services	5231 Colfax Ave	North Hollywood High School

Offsite city directory listings within approximately one block of the Site were also reviewed for business names of potential environmental concern to the Site.

- A Texaco gasoline service station was listed at 11699 W. Magnolia Boulevard, located adjacent to the east of the Site, from 1950 through 1970.
- A gasoline service station was listed at 11694 W. Magnolia Boulevard, located adjacent to the southeast of the Site, from 1950 through 1970.
- A gasoline service station/automobile repair station was listed at 11700 Magnolia Boulevard, located at the southwest corner of the intersection of Colfax Avenue and Magnolia Boulevard, from 1951 to 1991, followed by automobile repair through 2013.
- A laundry and cleaner facility was listed at 5150 Colfax Ave from 1956 to 2013.

There are no regulatory agency listings for releases at these properties. No other offsite listings of obvious environmental concern were noted nearby during the review of city directory listing information provided by EDR.

7.5 Building Department Records

E2 personnel reviewed the City of Los Angeles Department of Building and Safety (LADBS) online records database (http://ladbs.org/services/check-status/online-building-records) for records at the Site address on June 13, 2016. E2 also visited the LADBS office on June 14, 2016 to view building permit records for the Site. Building records dated back to 1928 and showed the presence of the existing campus. Items of environmental concern were not noted.

7.6 Historical Use Information on Adjoining Properties

Other obvious uses of likely environmental concern to the Site were not noted.

Section 8 Environmental Record Sources

An EDR Radius Map Report was obtained from EDR (EDR, 2016d). The database searched over 80 federal, state, local, and proprietary databases for properties within specified search radii from the Site. The search distances ranged from the subject Site only, to distances of up to 1 mile from the Site. At a minimum, the databases were searched to the distances listed in the U.S. Environmental Protection Agency's (EPA) Standards and Practices for AAI (40 CFR Part 312) and the ASTM Standard Practice for Environmental Site Assessments (E1527-13). The EDR report presents the results of the database searches, along with a description of each database that lists addresses of sites of known USTs; landfills; hazardous waste generation or treatment, storage and disposal facilities; and subsurface contamination. A copy of the EDR report is included as Appendix E.

Table 5 provides the database codes and a discussion of the regulatory status of the offsite listings and potential environmental impact to the subject Site.

The entries on Table 5 are limited to those listings that warrant further discussion. Listings that are not expected to impact the Site, and are therefore not discussed further, include the following:

- Hazardous materials handler/hazardous waste generator/hazardous waste transporter/hazardous waste processor lists and UST operator lists, unless adjacent to the Site.
- Leaking Underground Storage Tank (LUST) properties with "Case Closed" or "Final Concurrence Issued" statuses, unless adjacent to the Site.
- Voluntary Cleanup Program/Comprehensive Environmental Response, Compensation, and Liability Information System (VCP/CERCLIS) listings that have "No Further Action," "Certified," or "Refer other Agency" statuses, unless adjacent to the Site.
- Non-ASTM standard historical lists for high risk uses, including automobile service stations and potential cleaners, unless adjacent to the Site.
- Remaining offsite locations identified by EDR located greater than 0.5 mile from the Site. Based on our review of these listings, the potential for environmental impact to the Site from the offsite properties appears to be low due to distances from the Site and nature of the listings.

No properties were non-geocoded/unmapped sites.

Table 5
Summary of Environmental Database Search Report

Property Name	Address	Distance and Direction	Database Listing	Comments
Subject Site				
LAUSD/NORTH HOLLYWOOD HIGH SCHOOL	5231 COLFAX AVE	TP	HAZNET RCRA-SQG	0.0605 – 0.57 tons of waste generated from 2012 – 2014. Wastes include: waste oil and mixed oil, acidic liquids, and off-specification aged/surplus organics. Methods of disposal include: storage, bulking, transfer off site, incineration, and landfill/surface impoundment. No violations found. The types of wastes generated are consistent with that of the Auto Shop and science department laboratories.
			FINDS	ID: 110002784595 for California Hazardous Waste Tracking System – DataMart (HWTS-DATAMART)
			ECHO EMI	Pollutants in non-attainment area include: ozone, lead, and particulate matter. No violations found.

Property Name	Address	Distance and Direction	Database Listing	Comments
Adjacent Offsite Properties				
EARHART CONTINUATION HIGH SCHOOL	5355 COLFAX AVE	NE, adjacent.	RCRA-LQG	Classified as a Large Quantity Generator. Handler of lead waste with a start date of 11/14/1989 and no end date reported. No violations found.
-	11700 MAGNOLIA BLVD	S, adjacent	EDR HIST AUTO	An auto station from 2002 – 2012. Names of the auto stations include: K & A Complete Auto Repair (2002 – 2004), Complete Auto Repair Center (2005 – 2008), and S & J Complete Auto Repair (2009 – 2012).
TEXACO STATION			SWEEPS UST HIST UST CAD FID UST	1988 SWRCB records indicate one 10,000-gallon tank for waste, one 6,000-gallon tank of unleaded motor oil, and one 250-gallon tank for waste oil on the property. All of the tanks are equipped with a "sensor instrument" for leak detection. The records are not indicative of environmental cleanups and/or releases. No other relevant information given.

According to the EDR Radius Map Report, the Site is located approximately 0.938 mile south-southwest of the San Fernando Valley – Area 1 is also known as North Hollywood Wellfield Area, which has been on the National Priorities List (NPL) since 1986. Potential contaminants of concern (COCs) include: tetrachloroethylene (PCE), 1,1,1-trichloroethane (TCA), trichloroethylene (TCE), chromium II, and chromium VI. Groundwater and soil are potential media affected. The contamination results from prewar, postwar, and current industrialization in the San Fernando Valley. Past uses that caused the contamination include: aerospace manufacturing/maintenance, metal manufacturing, metal finish, and metal plating. However, residents have been assured by regulatory agencies that no one is drinking water with concentrations of contaminants above regulatory standards. There has been involvement from federal, state, and local agencies in conducting investigations and groundwater cleanup since contamination was discovered in 1979. The DTSC EnviroStor database website indicated that the San Fernando Valley – Area 1 has had a cleanup status of "active" as of May 15, 1996. Based on its distance from the Site, local groundwater depth, cross-gradient groundwater flow direction, and ongoing treatment operations, the San Fernando Valley – Area 1 is unlikely to have an adverse environmental impact on the Site.

Section 9 Regulatory Agency File Review

The following paragraphs provide a summary of additional environmental records sources. Copies of documentation from the regulatory agencies are provided in Appendix F.

9.1 Los Angeles County Department of Public Health

E2 visited the LACDPH office to review public records for the Site address on June 20, 2016. The records reviewed include Los Angeles County Fire Department (LACFD) inspection reports, manifests, California Environmental Reporting System (CERS) reports, business and contingency plans, and incident reports. Notable files reviews are as follows:

- A 2014 LACFD inspection report noted that there are four labs (for chemistry and biology) in the Admin/Classroom building, an Auto Shop, Paint Garage, Fuel Bunker, and Wood Shop on the Site. The presence or potential presence of used oil, filters, used coolant, and parts washer were noted in the Auto Shop. There was one 30-gallon drum of waste paint debris associated with the Paint Garage. Two 55-gallon drums of fresh oil were found in the fuel bunker.

- A 2014 CERS report indicated that the Fuel Bunker houses 55 gallons of gasoline and 30 gallons of diesel and the Auto Shop houses 140 cubic feet of oxygen.

- Hazardous waste manifests from 2012 to 2013 showed wastes that included asbestos, non-RCRA hazardous waste liquid (lab pack, oil water, antifreeze, oil), and non-RCRA hazardous waste solid (oil filters).

- LAUSD OEHS shipping sheets from the Site to the LAUSD School Hazardous Collection Consolidation Accumulation Facility for the years 2011 to 2014 showed wastes included universal wastes (fluorescent lights), non-RCRA hazardous waste (ink toners, lab pack), and chemical wastes (mercury, formaldehyde, corrosive, toxic, inorganic, lab pack).

- Copies of the Consolidated Contingency Plan for the years 2010 and 2011 listed waste streams from maintenance, auto shop, and science class. Wastes included: lamps, used oil, coolant, used filters, lab pack (liquid and solid), clarifier sludge (liquid), mercury solid compound, corrosive liquid, and formaldehyde solutions.

- A copy of the 1990 incident report/notice of violation indicated that oil-based paint was improperly disposed of in a trash bin located in the staff parking lot.

With the exception of the incident report/notice of violation in 1990, the records reviewed were not indicative of environmental releases or cleanups.

9.2 Los Angeles Regional Water Quality Control Board

E2 submitted a request to the LARWQCB to review public records for the Site address. LARWQCB responded in an email dated June 10, 2016 stating that no files were found for the Site.

E2 also searched the State Water Resources Control Board (SWRCB) GeoTracker online database (http://geotracker.waterboards.ca.gov/) for any records for the Site address. No records for the Site address were found.

9.3 Los Angeles Fire Department

E2 submitted a request to the LAFD to review public records for the Site address. LAFD responded in an email dated July 26, 2016 stating that no files were found for the Site.

9.4 South Coast Air Quality Management District

E2 submitted a request to SCAQMD to review public records for the Site address. SCAQMD responded in an email June 3, 2016 with attachments of files found for the Site. The files attached are related to natural gas powered boilers with low nitrous oxide emissions. An inactive permit (Permit No. A05463) was found to be related to "spray booth paint and solvent," but no date or other information was discernible due to poor resolution and quality of scan.

E2 personnel also reviewed the SCAQMD Facility Information Detail (FIND) website (http://www3.aqmd.gov/webappl/fim/prog/search.aspx) for public records assigned to the Site. The files and information available were identified to the attachments provided in SCAQMD's email response.

9.5 Department of Toxic Substance Control

E2 submitted a request to the DTSC Cypress and Chatsworth offices to review public records for the Site addresses. The DTSC Cypress office responded by mail on June 3, 2016 stating that no files were found for the Site address. The DTSC Chatsworth office responded by mail on June 2, 2016 stating that no files were found for the Site address.

9.6 California Division of Oil, Gas, and Geothermal Resources

E2 personnel reviewed the DOGGR online mapping system for oil or gas wells drilled on or near the Site (http://www.conservation.ca.gov/dog/Pages/WellFinder.aspx). There is one plugged oil and gas production well (API: 03705314, operated by Conoco Inc.) approximately 0.30 mile northwest of the Site. There are no other oil or gas wells, or oil fields, mapped within 0.5 mile of the Site.

9.7 National Pipeline Mapping System

E2 reviewed the US Department of Transportation (DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA) National Pipeline Mapping System (NPMS) Public Map Viewer to search for pipelines located on or near the Site (https://www.npms.phmsa.dot.gov/PublicViewer/). There are no pipelines mapped within 0.5 mile of the Site.

Section 10 Findings and Opinions

The following is a summary of the information obtained for the Phase I ESA.

- Based on a review of historical sources, the Site has been occupied by a school since its earliest development. The Site was vacant and/or undeveloped until 1921 when a single structure/building was observed via 1921 Santa Monica topographic map. Sometime between 1921 and 1928, four large buildings, forming Lankershim High School, occupied the Site. By 1930, the Site was known as North Hollywood High School as the school continues to expand. Since 1948, the buildings on the Site have expanded to match its current-day configurations.

  Present and historical uses of buildings include: paint shops, electric shops, metal shops, graphics arts shops, print shops, auto shops, and wood shops. Based on a review of LAUSD provided plans and historical sources the following uses of potential environmental concern were noted on the Site.

  - **West Gym:** Sanborn maps show the West Gym as having a transformer vault/switchboard room and a boiler room from 1955 through 1969. Evidence of these features was not noted at the time of the Site reconnaissance, and final dates of use are unknown.

  - **Computer Labs:** LAUSD plans show the Computer Labs as containing a metal shop, graphic art area, and electric shops in 1964. Storage tanks of unknown use were also shown in the plan. No information was available to indicate when these shop uses of the building were discontinued.

  - **Auto Shop:** LAUSD plans show the Auto Shop as being constructed in 1964. Vehicle hoists were installed at that time.

  - **Wood Shop:** LAUSD plans showed that the present-day Wood Shop was a mechanics shop with exterior auto shop yard before 1964. The planned removal of an incinerator and chimney from outside the northwestern portion of the building was also noted in 1964.

  - **Exterior Areas:** A 1927 plan from LAUSD indicated the presence of a cesspool, septic tank, drywell, and associated lines northeast of the current-day East Gym and south-southwest of the Locker Room.

    A 1930 LAUSD plan indicated a brick dry well in the courtyard north of the L-shaped Administration/Classroom building and a cesspool south of the L-shaped Administration/Classroom building in the yard north Magnolia Boulevard. A 1933 plan indicates that there were three septic tanks and six cesspools located north of the present day Library building, north of the present day Wood Shop building (former auto shop), and south of the present day Administration/Classroom building. The cesspools ranged from 37 to 40 feet deep. An additional “Chemical Cesspool” was shown on the east side of the present day Administration/Classroom Building. LAUSD plans dated 1964 indicate that a septic tank, located between the current-day Computer Labs and East Gym, was to be removed. A “concrete yard and grease pit,” located between current-day Wood Shop and Computer Labs was also indicated to be removed. If these features remain there is a potential to have been backfilled with undocumented fill, construction debris, or burn ash. LAUSD Facilities

Asset Management should be contacted for a copy of the geophysical survey results in these areas when available.

Sanborn maps show a print shop located in the area north of the present-day Cafeteria from 1955 to 1961.

- The following uses of potential environmental concern were noted during the Site reconnaissance:
  - **West Gym, East Gym and Auditorium basement, and Administration/Classroom basement:** Natural gas-fired hot water boiler systems were located in rooms that contained large unused boiler tanks, likely associated with historical boiler systems in these areas. The historical boilers previously delivered hot water or steam via pipes to heat the smaller buildings. Sumps and floor drains were also located on the boiler rooms and were likely used to collect water leaks. Based on the early development and of the Site (1927) there is a potential for the boilers to have been fueled by bunker fuel or diesel stored in USTs. Although evidence of USTs was not observed in these areas, there is a potential for unused or abandoned features to be present. Further information should be gathered from the LAUSD CPM or other departments to ascertain the fuel source of the former boilers. It should also be noted that although the former boiler pipes and asbestos-containing thermal system insulation (TSI) has been removed from the boiler rooms it is likely to remain in steam tunnels throughout the Site.
  - **East Gym and Auditorium:** A suspect incinerator/chimney with traces of ash was also observed in the basement of the East Gym and Auditorium. The vertical extent of the feature could not be determined at the time of observation. A locked room in the basement of the Auditorium Building was labeled as containing electrical equipment operated by SCE. It is our understanding that LAUSD schools in this area typically have electrical rooms with electrical transformers that service an entire campus. This room is suspected as containing similar equipment, and because electrical transformers were in some cases were filled with PCB-containing dielectric fluid, the equipment should be inspected for evidence of leaks or staining.
  - **Auto Shop:** A three-stage clarifier was identified near the outside southwest corner of the Auto Shop building. No further information regarding the history or maintenance schedule of the clarifier was available. The Auto Shop also contains two double-post hydraulic lifts and one single-post hydraulic lift. The lifts operate on hydraulic pistons that reach approximately 8 feet deep. Oil staining was observed at the bottom trench associated with one of the adjustable double lifts. Further information regarding the history and maintenance status of the lifts was not available.
- The EDR environmental database report contained listings for LAUSD/North Hollywood High School on the HAZNET, RCRA-SQG, FINDS, ECHO, and EMI databases. Historical wastes included waste oil and mixed oil, acidic liquids, and off-specification aged/surplus organics; these types of wastes generated are consistent with that of an Auto Shop and science department laboratories found onsite. No violations were noted and further details were not provided. Hazardous wastes generated at the Earhart Continuation High School are located in the northeastern corner of the shared parcel with the school campus, but outside the Site boundaries.
- Several offsite properties of potential environmental concern were noted in the EDR environmental database report and historical records review. A laundry and cleaner facility addressed 5150 Colfax

Avenue, located approximately 250 feet to the southeast of the Site, has been present from 1956 to 2013. Gasoline service stations were noted on the three adjacent corners at the intersection of Colfax Avenue and W. Magnolia Boulevard, for various periods from 1952 through 1991. Automobile repair activities have continued on the adjacent property to the south of the Site (11700 W. Magnolia Boulevard) through the present day. No violations or records of cleanup cases were noted for these properties. The apparently early dates of the station closures, and lack of environmental database search listings for these properties, indicates that the UST removals may not have been removed under regulatory agency oversight. However, based on the distance (across the street) of the drycleaner and former service stations, there is a low likelihood that a vapor encroachment condition from these locations exists at the subject Site.

- The Site is located approximately 0.94 mile south-southwest of the San Fernando Valley – Area 1, a Superfund Site. There is potential contamination to groundwater and soil resulting from prewar, postwar, and current industrialization of the San Fernando Valley. However, based on its distance away from the Site, groundwater conditions, and ongoing treatment operations, San Fernando Valley- Area 1 is unlikely to have an adverse environmental impact on the Site.

- Requests to review file documents were submitted to the LACDPH, LARWQCB, LAFD, SCAQMD, and DTSC. LARWQCB, LAFD, and DTSC reported that they had no files pertaining to the Site address. LACDPH records documented the historical use of hazardous materials and generation of wastes consistent with the science labs, Auto Shop, and paint supplies at the school. The SCAQMD records documented an inactive permit related to a "spray booth paint and solvent," but no date or other information was discernible due to poor resolution and quality of scan.

10.1 Data Gaps

A data gap, as defined in the ASTM Standard E1527 13, is an absence of information that affects the ability of the environmental professional to identify recognized environmental conditions. No data gaps were identified in the preparation of this Phase I ESA with the exception of the following:

- E2 was unable to gain access into an electrical equipment room located in the basement of the East Gym and Auditorium buildings. Based on the potential presence of electrical transformer that could be filled with PCB-containing oil, the inability to observe this area is considered a significant data gap.

Section 11 Conclusions

Based on the results of this Phase I ESA, the following conclusions are provided:

We have performed a Phase I ESA in accordance with the scope and limitations of the ASTM Practice E 1527-13 of the subject Site. Subject to the receipt of regulatory agency files and the data gaps discussed in Section 9 and 10, this assessment has revealed no evidence of RECs at the Site with the exception of the following:

1. Historical uses such as a metal shop, graphic arts area, and electric shops have the potential to have used solvents and other chemicals at the present day Computer Labs location.

2. Operations at the Auto Shop dating back to 1964 have likely used automotive chemicals, petroleum oils/products, and parts cleaners containing solvents. In addition, the hydraulic lifts and clarifier have the potential to have leaked petroleum products and other hazardous materials to the subsurface.

3. The Wood Shop is the former location of the mechanics shops and an exterior grease pit, which may have experienced the use of used automotive chemicals, petroleum oils/products, and parts cleaners containing solvents.

4. Historical plans dated 1927 through 1964 showed the presence of septic tanks, drywells, and cesspools near the campus buildings. If these features remain there is a potential to have been backfilled with undocumented fill, construction debris, or burn ash. Releases of hazardous materials or wastes to these features (particularly from the former shop areas) have the potential to have impacted the subsurface through leaks or through the designed leaching systems.

5. Ash and debris at the bottom of the suspected incinerator/chimney in the basement of the East Gym and Auditorium may contain COCs. In addition, operation of the incinerator may have resulted in aerial deposition of COCs in the surrounding area. An incinerator and chimney were also present outside the northwestern portion of the present day Wood Shop building in 1964.

6. The location of the former print shop, in the exterior areas near the present day cafeteria, has the potential to have been impacted by releases from printing chemicals or solvents.

7. Based on the age of the Site buildings, exterior soils may be impacted with lead due to the weathering of lead-based paint, and arsenic and/or organochlorine pesticides (OCPs) as a result of possible pesticide applications at the property. In addition to surficial applications, OCPs may be found at depth as a result of treatment or injection beneath buildings as a termiticide.

Section 12 References

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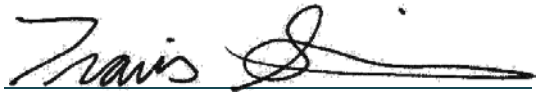
Section 13 Signatures of Environmental Professionals

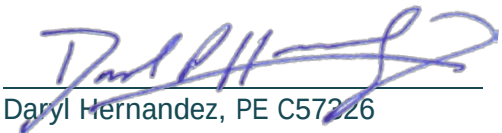
We declare that, to the best of our knowledge and belief, we meet the definition of Environmental Professional in §312.10 of 40 CFR 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, setting, and history of the subject property. We have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Supporting documentation of our qualifications is presented in Appendix G.



Kevin Lin, EIT
Staff Professional

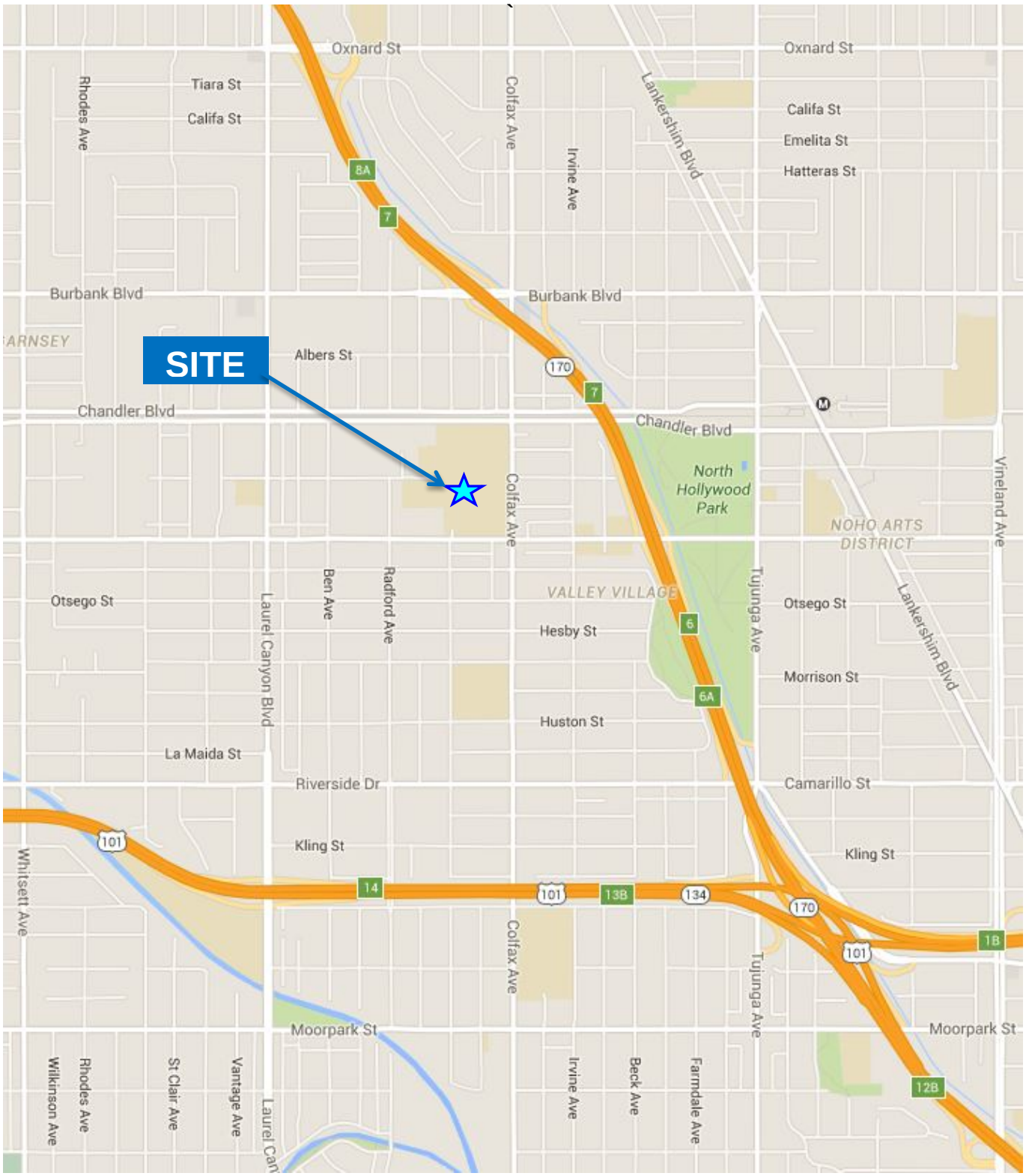


Travis Stravasnik
Senior Project Manager

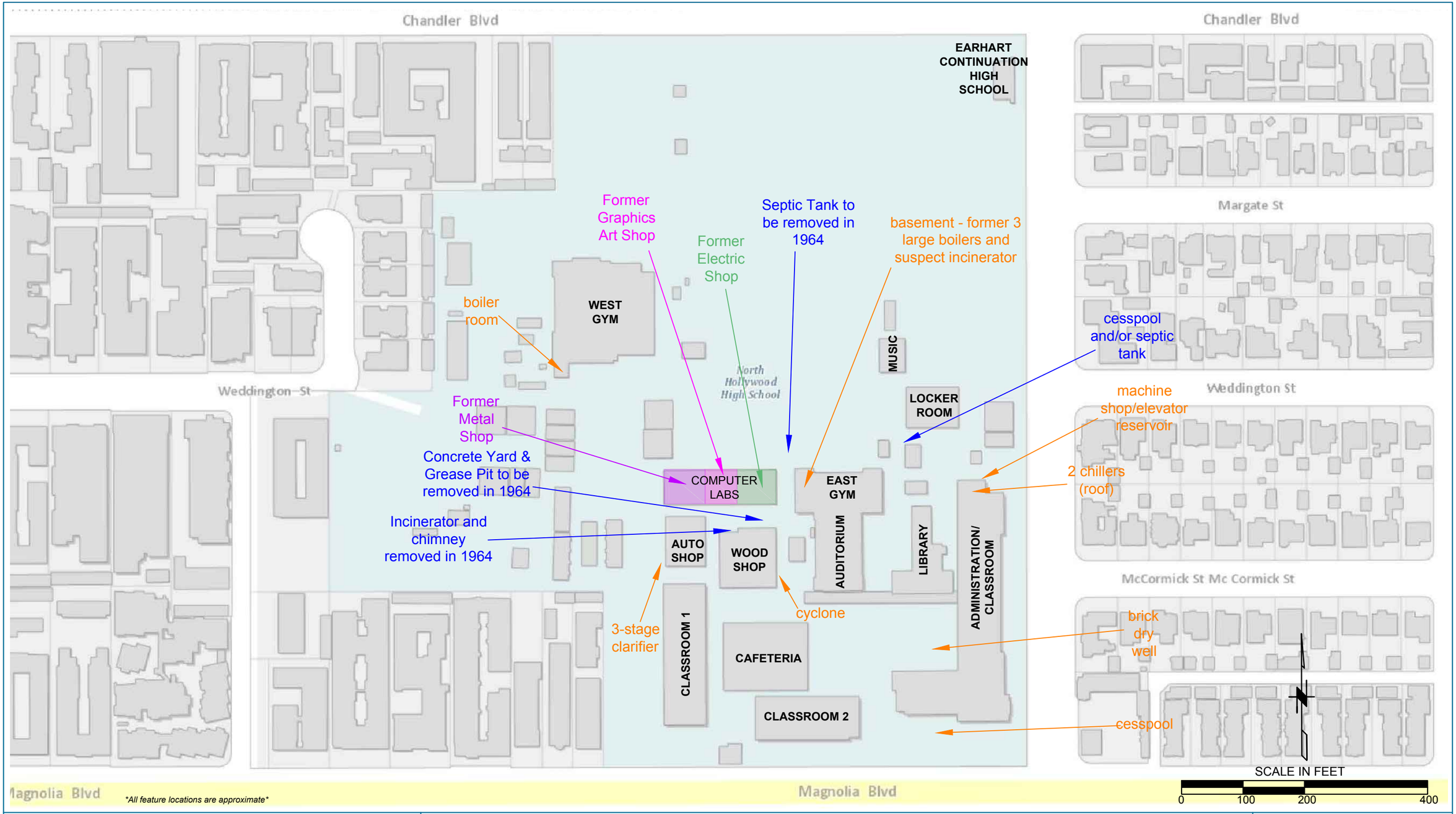


Daryl Hernandez, PE C57226
Principal

Figures



E2MANAGETECH COLLABORATE | INNOVATE | DELIVER	**APN 2348-013-900** **5231 Colfax Avenue** **Los Angeles, California 91601**	**Site Location Map**
	Project Number: 16-201-003	Date: July 2016	**Figure 1**



E2MANAGETECH
COLLABORATE | INNOVATE | DELIVER

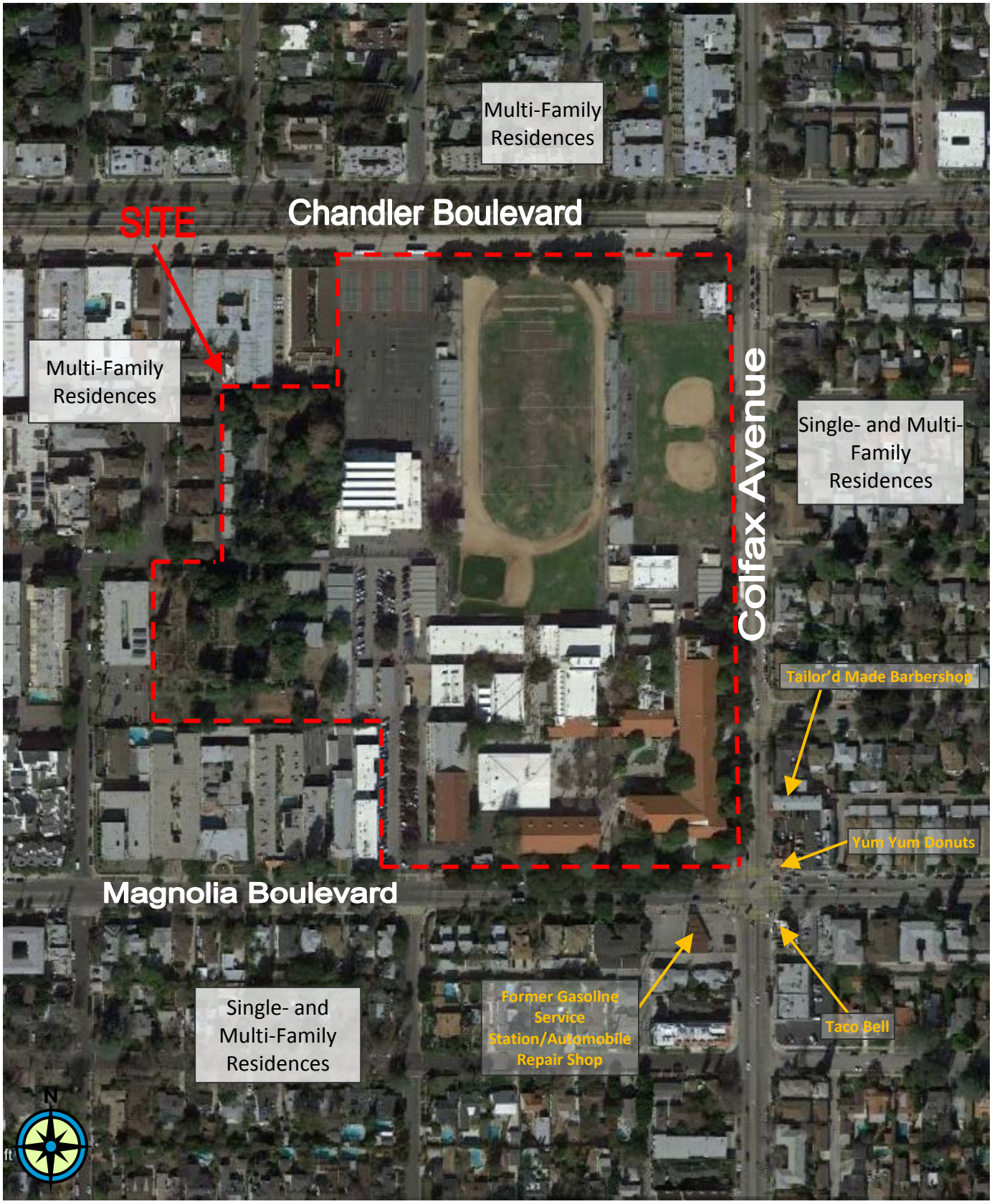
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE
LOS ANGELES, CA 91601

SITE MAP

Project Number:
16-201-001

DATE: JULY 2016

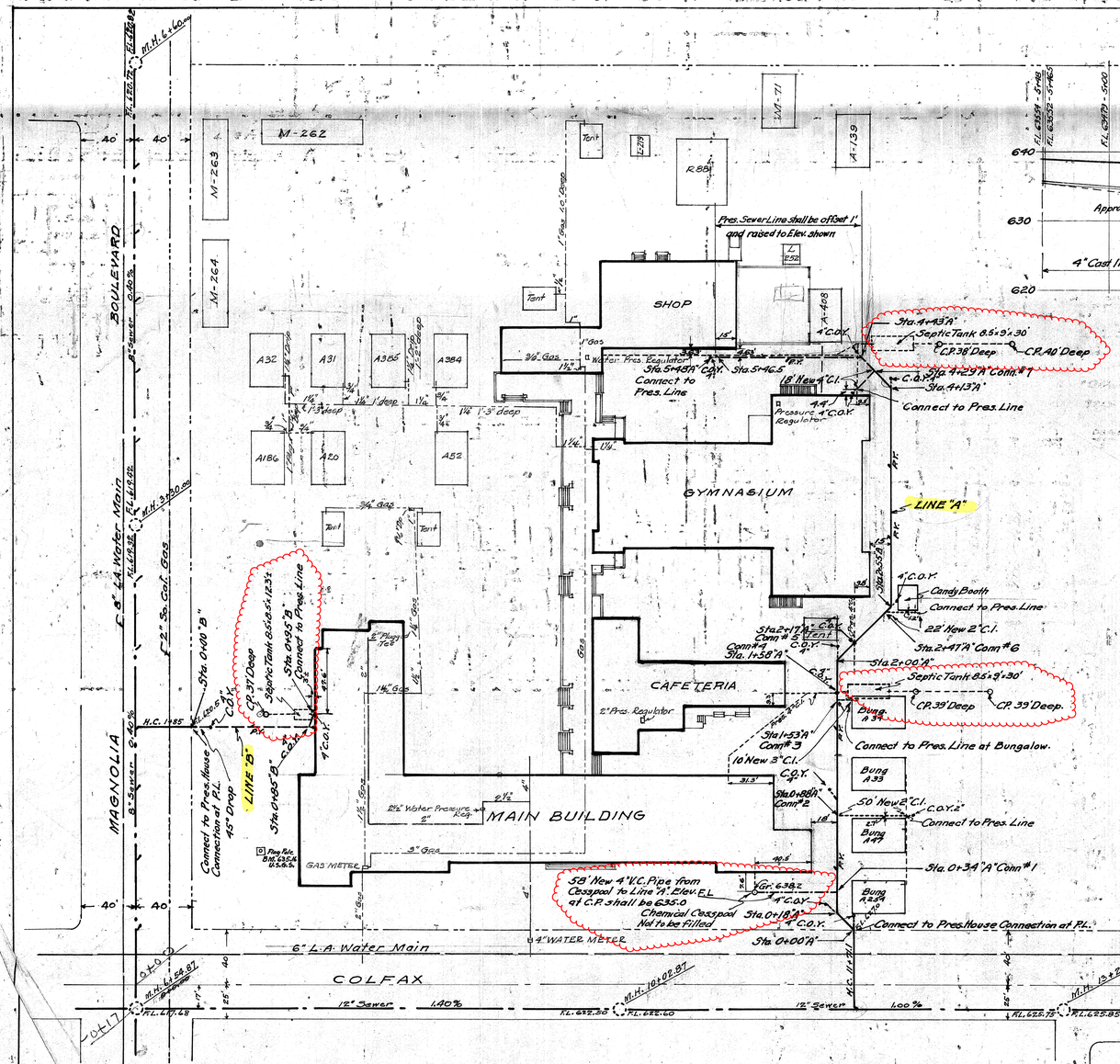
FIGURE 2

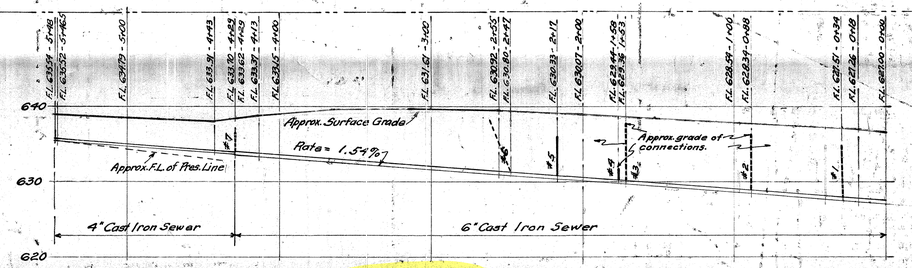


E2MANAGETECH COLLABORATE | INNOVATE | DELIVER	**APN 2348-013-900 5231 Colfax Avenue Los Angeles, California 91601**	**Site and Vicinity Map**
	Project Number: 16-201-003	Date: July 2016	**Figure 3**

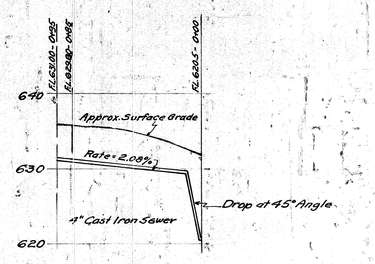
Appendix A

User-Provided Information





PROFILE of LINE "A"
SCALE- Hor. = 1" = 50'
Vert. = 1" = 10'



PROFILE of LINE "B"
SCALE- Hor. = 1" = 50'
Vert. = 1" = 10'

SCALE: 1" = 50'

BENCHMARK: N.W. Cor. Conc. Base of Flag Pole: El. = 635.16' U.S.G.S. Datum

NOTES

Cleanout Y's shall be brought to surface and capped with brass screw cap and iron body cleanout.
All cesspools to be filled are five (5) feet in diameter-depths shown on plan.

LEGEND

- 2" Cast Iron Sewer Line (New)
- 4"
- 6"
- 4" Clay Tile (New)
- M.H. = Manhole; H.C. = House Connection; F.L. = Flow Line; Elev. = Elevation; C.I. = Cast Iron Pipe; Sta. 0+34 'A' Conn #1 = Station 0+34 Line 'A' Connection #1; C.O.Y. = Clean-out Y; P.Y. = Plugged 'Y' in Line; C.P. = Cesspool;
- Present Sewer Lines
- Gas lines shown
- Water lines shown
- Sewers (Street) shown

8786.00

PIPING PLAN

SEWER CONNECTIONS	DATE AUG. 1939
NORTH HOLLYWOOD HIGH SCHOOL	DRAWN CLC/RA
5231 COLFAX AVE. N. HOLLYWOOD	TRACED CLC
	CHECKED
PLANS PREPARED BY BUSINESS DEPARTMENT BOARD OF EDUCATION L. A. CITY HIGH SCHOOL DISTRICT J. D. Scouller, Business Mgr.	ADD No. 61085
1445 SOUTH SAN PEDRO STREET LOS ANGELES CALIFORNIA	SHEET No. 1 OF ONE

C-W-84

MAGNOLIA BOULEVARD

CHANDLER BOULEVARD

M 263 | M 262 | M 264 | A-385 | R-88 | M-71 | A-137 | TENTS | OUT | Tent | A-32 | A-31 | A-186 | A-20 | A-384 | A-52

CLASS ROOM BUILDING

EXIST. SHOP

EXISTING AUDITORIUM

EXISTING DOMESTIC SCIENCE

EXISTING CLASS ROOM BLDG.

BOYS' RECREATION FIELD

GIRLS' RECREATION FIELD

NEW PHYSICAL EDUCATION BUILDING.

Locate Old Tents here, provide gas & electric service.

EXIST. CANDY SHOP

Exist. Shed M96

Exist. chain link fence to remain

Existing fence to remain

Existing Chain Link fence to remain.

Move to new locations as shown

Old Cess pools 15 Ft. diam. 30 Ft. deep now filled in

Locate existing Shed M-96 here.

Access to Girls' recreation field

grading limit

Barricade

Provide 5'-0" gate in Barricade.

ACCESS TO GIRLS' RECREATION FIELD

BARRICADE

EXISTING GATE CONTRACTOR TO VERIFY LOCATION

Fin. Fl. ELEV. G40.0

B.B.B.S.

V.B.P.

F.G.

BUNGALOWS

Existing Chain Link Fence

GRADING LIMIT

GRANITE SURFACING

TURF

BARRICADE

EXISTING

A-34 | A-33 | A-47 | A-254

NORTH.

10' Chain link fence

Cb.

CONTRACTOR'S ENTRANCE TO 'WORKING AREA'. INSTALL TEMPORARY GATE IN CHAIN LINK FENCE.

1200.0'

620.0'

C O L F A X A V E N U E

LEGEND:
H.B.B.S. denotes Hand Ball Backstop.
B.B.B.S. " Basket " "
V.B.P. " Volley Ball Post
Cb. " Curb.
F.G. " Finish Grade.
Present Grades shown thus: — — —
Finish Grades " " ———
Grading Limit " " —o—o—
Existing Fences " " —×—×—

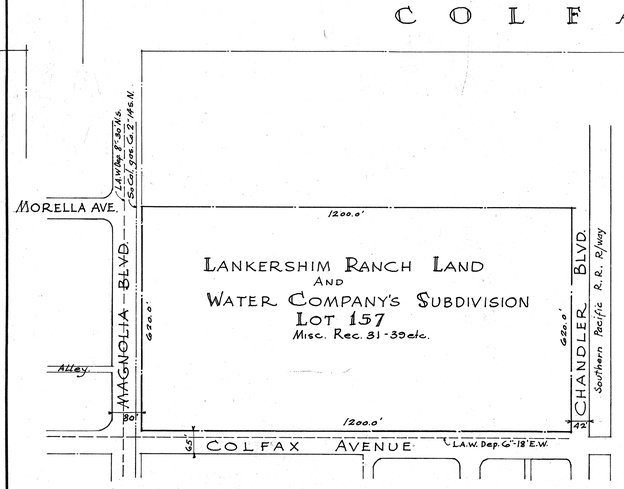
Note:
Contractor shall Move and Reset Playground Equipment as directed. Contractor shall protect all Trees in "Working Area".

PLOT PLAN

Scale 1" = 50'

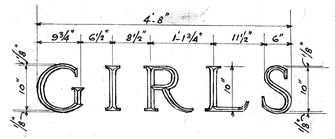
Bench Mark: N.W. Corner of Base of Flagpole Elevation 635.160 - U.S.G.C. Datum.

NOTE:
Area to be granite surfaced shall be graded 2" below Finish Grades shown, to allow for decomposed granite. Contractor shall provide and place decomposed granite as specified.
Area allotted to Contractor is shown shaded and is within limits of Barricades, except area for access to Girls' Recreation Field shall not be used by Contractor.

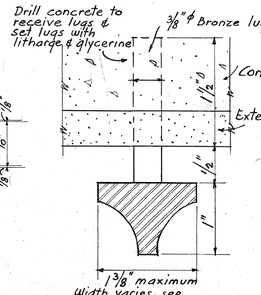


VICINITY MAP

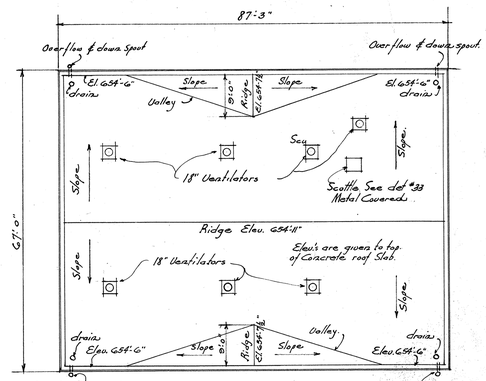
Scale 1" = 200'



DETAIL OF CAST BRONZE LETTERS OVER MAIN ENTRANCE.
Scale 3/4" - 1'-0"



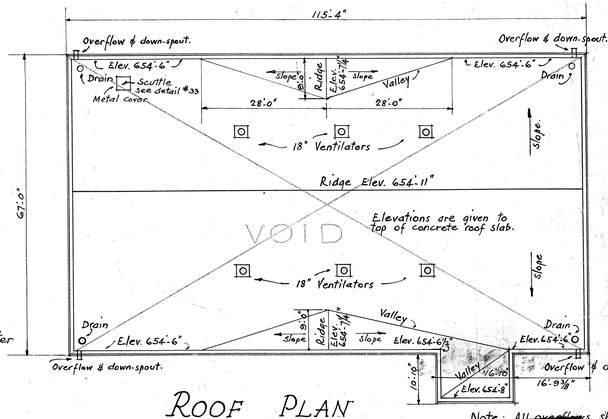
FULL SIZE SECTION OF BRONZE LETTERS.



ROOF PLAN

Scale ⅛" = 1'-0"

ABBREVIATIONS:
A.P.G. denotes approximate present grade.
F.G. " Finish Grade.
C.I. " cast iron
D.S. " Down spout.
Pl. " Plaster.



ROOF PLAN

Scale - 1/16" - 1'-0"

8786.20

REVISED - SEPT. 28th 1936

STATE OF CALIFORNIA, DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE
APPROVED 7-22-34
1667
GEO. B. McDOUGALL, State Architect
C. H. Kroner
PRINCIPAL STRUCTURAL ENGINEER

STATE OF CALIFORNIA, DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE
APPROVED As revised 9-29-36
1667
GEO. B. McDOUGALL, State Architect
C. H. Kroner
PRINCIPAL STRUCTURAL ENGINEER

PLOT & ROOF PLANS

FRANK A. BOUELLE
Supt.

EDWARD W. HAUCK
CH. BLDG. COM.

R. D. MacPherson
ARCHITECT.

A. S. NIBECKER, JR.
BUSINESS MGR.

NEW PHYSICAL EDUCATION BUILDI

NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE
NORTH HOLLYWOOD, CALIFORNIA

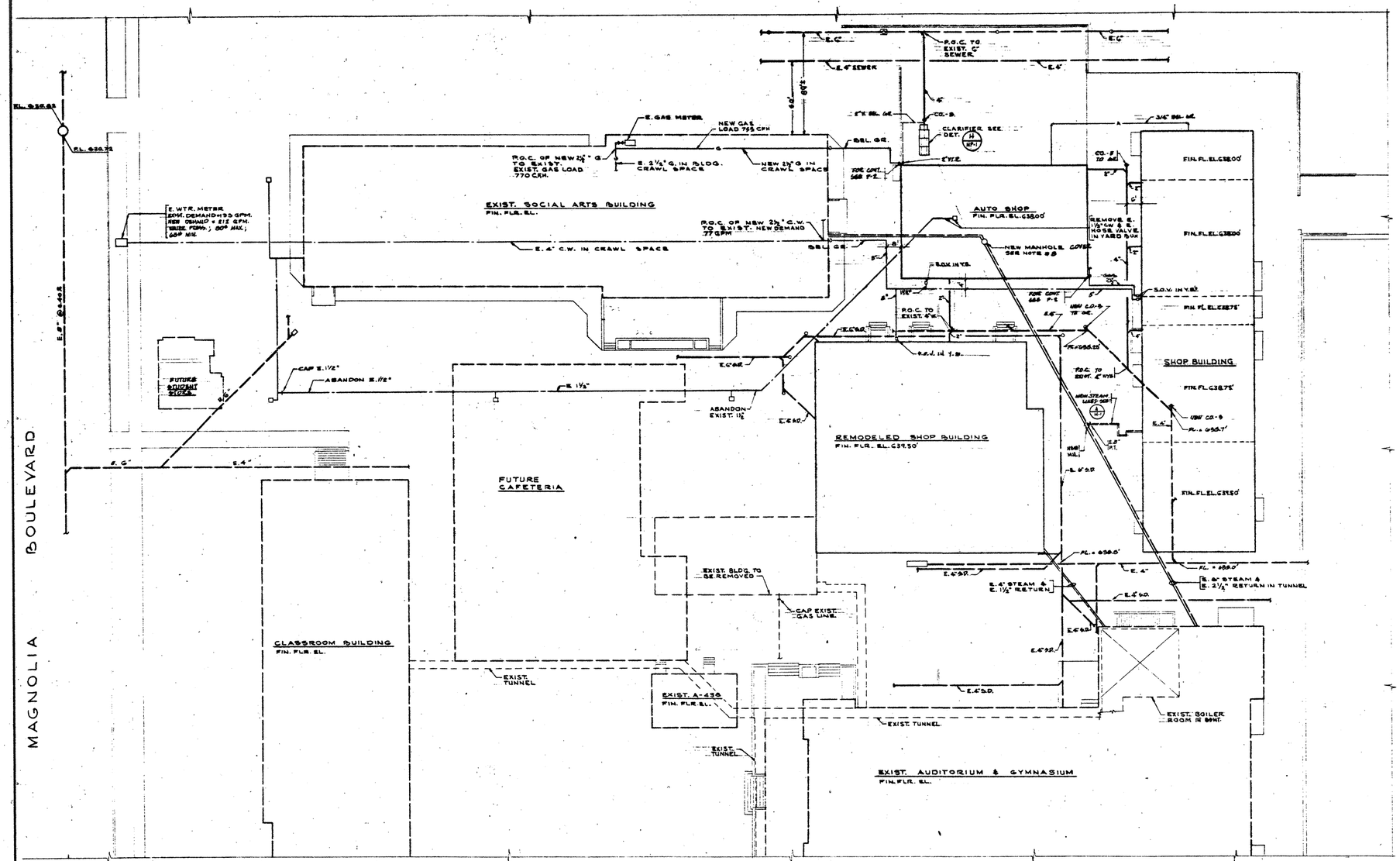
DATE JULY
Job 133

R. D. MACPHERSON
ARCHITECT
323 TRANSAMERICA BLDG LOS ANGELES, CAL

DRAWN
TRACED
CHECKED

PREPARED FOR THE
LOS ANGELES CITY
HIGH SCHOOL DISTRICT

SHEET 1



SITE PLAN

SCALE: 1" = 20'-0"

N

PLUMBING SYMBOLS & ABBREVIATIONS

SYMBOL OR ABBREVIATION	DESCRIPTION
———	EXISTING SOIL OR WASTE PIPE
———S. W.	NEW SOIL OR WASTE
———V	VENT PIPE
———C.W.	COLD WATER PIPE
———H.W.	HOT WATER PIPE
——G—— G	GAS PIPE
A.P.	ACCESS PLATE
C.O.	CLEANOUT ASSEMBLY
C.O.P.	CLEANOUT PLUG
D.F.	DRINKING FOUNTAIN
E.	EXISTING
F.E.	FIRE EXTINGUISHER
F.S.H.	FIRE SPRINKLER HEAD
F.D.	FLOOR DRAIN
F.S.	FLOOR SINK
G.S.	GAS STOP
HDR.	HEADER
H.B.R.	HOSE BIBB RECESSED
F.L.	FLOW LINE ELEVATION
L.	LAVATORY
P.A.	PLANTING AREA
P.L.	PROPERTY LINE
S.S.	SERVICE SINK
S.C.	SILL COCK
S.	SINK
T.M.V.	THERMOSTATIC MIXING VALVE
U.	URINAL
V.T.R.	VENT THRU ROOF
V.	GATE VALVE, PARTITION STOP VALVE OR PRESS. & TEMP. RELIEF VALVE
W.C.	WATER CLOSET
W.H.A.	WATER HAMMER ARRESTOR
W.H.	WATER HEATER
Y.B.	YARD BOX
——S.D.——	STORM DRAIN
D.U.	DI-ELECTRIC UNION
R.D.	ROOF DRAIN
D.S.	DOWNSPOUT

GENERAL NOTES

1. THE FOLLOWING GENERAL NOTES APPLY TO ALL PLUMBING SHEETS.
2. SEE SPECIFICATIONS FOR FIXTURE SYMBOLS.
3. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF FLR. DRAINS.
4. BEFORE STARTING TRENCHING THE CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING LINES AFFECTED BY THE CONTRACT. SHOULD IT BE NECESSARY TO RE-ROUTE LINES DUE TO CONDITIONS FOUND ON THE SITE, THE CONTRACTOR SHALL OBTAIN A REVISED DRAWING FROM THE ARCHITECT BEFORE INSTALLING ANY WORK WHICH MAY BE AFFECTED
5. ALL GAS STOPS ON GAS LINES ENTERING BUILDINGS SHALL BE LABELLED, "GAS SHUT-OFF" IN COMPLIANCE WITH SPECIFICATIONS.
6. & 7. ALL LINES SHOWN ARE NEW, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL FURNISH ALL TRIM & CONNECT UP COMPLETE ALL KITCHEN EQUIPMENT & FIXTURES FURNISHED BY OTHERS. SEE MANUFACTURER'S PLANS FOR "ROUGH-IN" DETAILS
8. EXISTING MANHOLE SHALL REMAIN. RAISE AND ADJUST THE MANHOLE TO SUIT THE FIN. FLR. EL. OF THE AUTO SHOP. INSTALL NEW MANHOLE COVER & FRAME. COVER & FRAME SHALL BE ALHAMBRA FOUNDRY # A 1288, CAST IRON, WATER-TIGHT COVER & FRAME, TRAFFIC STRENGTH.
9. PROVIDE SHUT-OFF COCK AND CAPPED OUTLETS FOR ALL CONDENSATE LINE DRAINS.

GAS LOAD SCHEDULE

BUILDING	EXISTING		NEW								FUTURE				TOTAL	
	SOCIAL ARTS		AUTO SHOP		METAL SHOP		GRAPHIC SHOP		ELECTRIC SHOP		CAFETERIA		STUDENT STORE			
	# FACES	DEMAND/FIG	# FACES	DEMAND/FIG	# FACES	DEMAND/FIG	# FACES	DEMAND/FIG	# FACES	DEMAND/FIG	# FACES	DEMAND/FIG	# FACES	DEMAND/FIG	# FACES	DEMAND/FIG
G.F.H.	—	498	184	24	100	808	112	169	105	48	—	1200	30	—	7898	645

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE: DEC 29 1964
BY

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
DIVISION OF ARCHITECTURE AND CONSTRUCTION
25153 APPROVED DEC 29 1964

ZORAN E. SHEFFNER
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3842 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
26 W. 8TH STREET - LOS ANGELES 57, CALIF.
REG. NO. E 1699

STEPHEN T. BERKY
CONSULTING MECHANICAL ENG.
2385 BEVERLY BLVD. - LOS ANGELES 57, CALIF
REG. NO. M 3661

G. SHUIRMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
[illegible] LOS ANGELES 48, CALIF

ARCHITECT
DATE DEC. 1964
APPROVED
DATE
REVISIONS

SHEET TITLE: SITE PLAN-PLUMBING

NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES CITY SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE 1" = 20'-0"
DRAWN BY
CHECKED BY
SHEET NO. P1
OF 3 SHEETS

8786.24

NOTE: FOR TYP. PLYWOOD SHEAR WALL NAILING AND DETAIL SEE SHT. S4 - TYP.

2x6 STUDS @ 16" O.C.

¾" PLYWOOD

TECO FASTENER OR APPROVED EQUAL WITH 2-12d TOE NAILS, P.S. & 3 DOWS. @ 12 c.c., 6" HK.-TYP.

¾" A.B. x 10 @ 6'-0" TYP. OR N.T.D.

#3 @ 12 c.c. E.W. - TYP.

¾" DRY PACK

#4 CONT.

2'-0" TYP.

1'-6"

1'-0"

2-#4 CONT.

#4 @ 24 c.c.

1'-0"

SEC. 6 S-3 SCALE: ¾"=1'-0"

NOTE: BOT. OF FTGS. TO BE 6" MIN. OF FGF BELOW FAV. OR NAT. GRADE WHICHEVER IS LOWER, TYP. ALL EXTERIOR FTGS.

2x6 @ 16 c.c.

¾" PLYWOOD

#3 x 3'-0 @ 12" c.c. TYP.

#4 CONT.

#4 @ 24 c.c.

2-#4 CONT.

1'-0"

SEC. 7 S5 SCALE: ¾"=1'-0"

NOTE: BOT. OF FTGS. TO BE 1'-6 BELOW SLAB OR NAT. GRADE WHICHEVER IS LOWER. TYP. ALL INTERIOR FTGS

2x6 @ 16 c.c., SEE 6A/S3

SLOPE ¼"/FT.

#4 @ 24 c.c.

2-#4 CONT.

1'-0"

SEC. 8 S5 6A S-3

SCALE: ¾"=1'-0"

#3 x 2'-0 @ 12 c.c.

#4 @ 24 c.c.

NOTE: REC. TYP. DIRECTION SIM.

#4 @ 12" c.c. E.W.

SEC. 11 S-3

SCALE: ¾"=1'-0"

2x6 @ 16 c.c.

4x4 x ½" PL

¾" BOLT

6x6

4 x ½ x 0'-10" @ 2'-5⅜" FROM A.B.

3-#4 E.W.

SEC. 12 S-3

SCALE ¾"=1'-0"

SEC. 13 S-3

SCALE ¾"=1'-0"

TYP. STEPPED FTG. DETAIL

1'-0" MIN. THICKNESS

1'-0"

2'-0"

1'-0" MAX.

1'-0"

82'-0"

2¾"

9'-9¾"

10'-0"

16'-0"

16'-0"

16'-0"

18'-9¾"

2¾"

10'-0"

7'-0"

9'-0"

7'-0"

8'-0"

9'-0"

NOTE: REINF. OIL & SAND INTERCEPTOR PIT PLAN & SECTION SEE SHT. MP1

SLOPE

SLOPE

6" CONC. SLAB ON GRADE #5 @ 12" C.C. E.W.

B S-3

2'-6 x 2'-6 x 12 3-#4 EA. WAY

5'-4 x 5'-4 x 12 4-#4 EA. WAY, SEE 10/S3

2'-6 x 2'-6 x 12 3-#4 EA. WAY

5" CONC. SLAB ON GRADE #3 @ 12" o.c. E.W. FIN. FLOOR EL. = 638'-0"

KNIT TUNNEL, CONTRACTOR TO CHECK LOCATION.

EL. BOT. OF EXIST. TUNNEL 626.75 CONTRACTOR TO CHECK

FOR FDN. SEE DET. A/S-3

7'-0"

9'-0"

4'-2" x 4'-2" x 12" 6-#4 EA. WAY

ALL FOOTINGS TO BE PLACED ON UNDISTURBED SOIL

2'-6 x 2'-6 x 12 3-#4 EA. WAY

COMPACT SOIL UNDER LANDING

DENOTES EL. OF BOT. OF FOOTINGS TYP.

COMPACT SOIL UNDER LANDING

5'-0" 5'-0" 5'-0" 5'-0"

2¾" 3'-3¼" 10'-0" 16'-0" 16'-0" 16'-0" 13'-9¼" 2¾"

50'-0"

19'-5½"

14'-0"

20'-0"

2'-6"

4'-0"

2'-0"

3'-0"

10'-0"

16'-6"

12'-0"

8'-0"

9'-6"

4'-6"

2'-6"

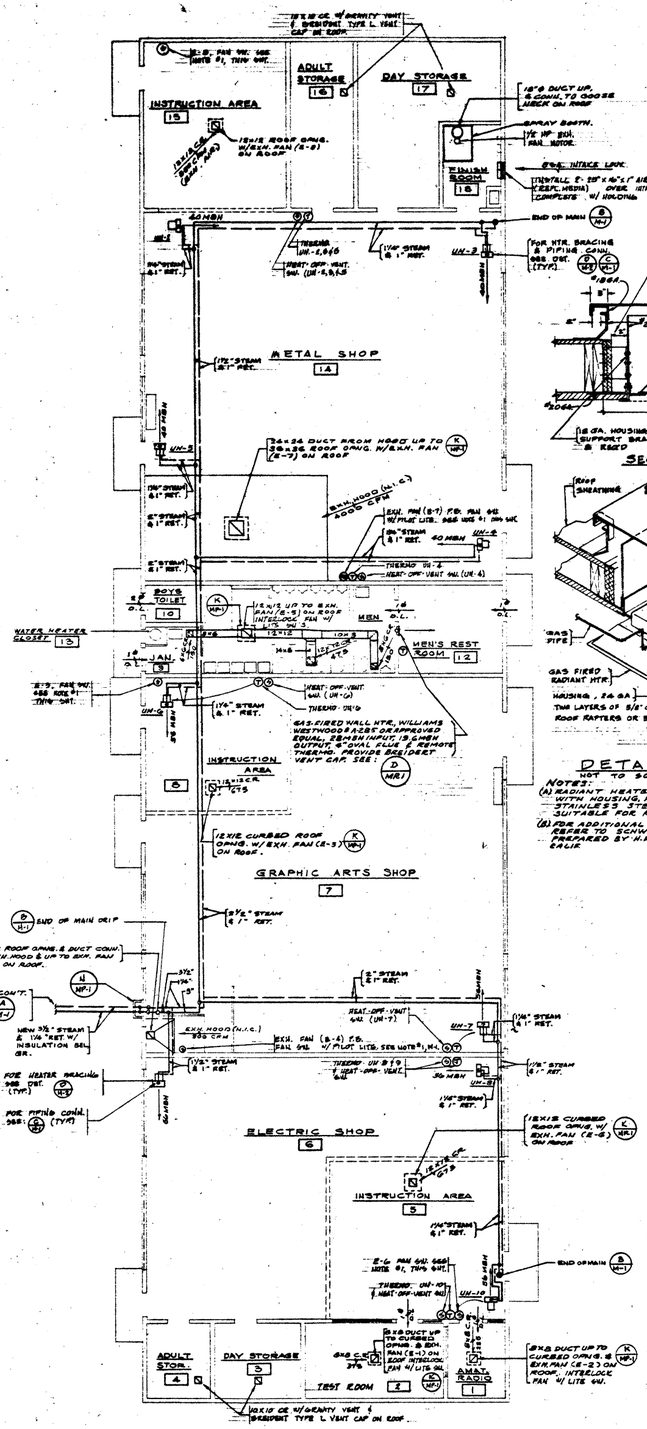
1'-0"

1'-6"

2'-6"

2'-6"

2


ADULT STORAGE 16
DAY STORAGE 17
INSTRUCTION AREA 15
METAL SHOP 14
BOYS TOILET 10
JAN. 9
MEN 11
MEN'S REST ROOM 12
WATER HEATER CLOSET 13
GRAPHIC ARTS SHOP 7
ELECTRIC SHOP 6
INSTRUCTION AREA 5
ADULT STOR. 4
DAY STORAGE 3
TEST ROOM 2
AMAT. RADIO 1
INSTRUCTION AREA 8
40 MBH
UH-1
UH-2
UH-3
UH-4
UH-5
UH-6
UH-7
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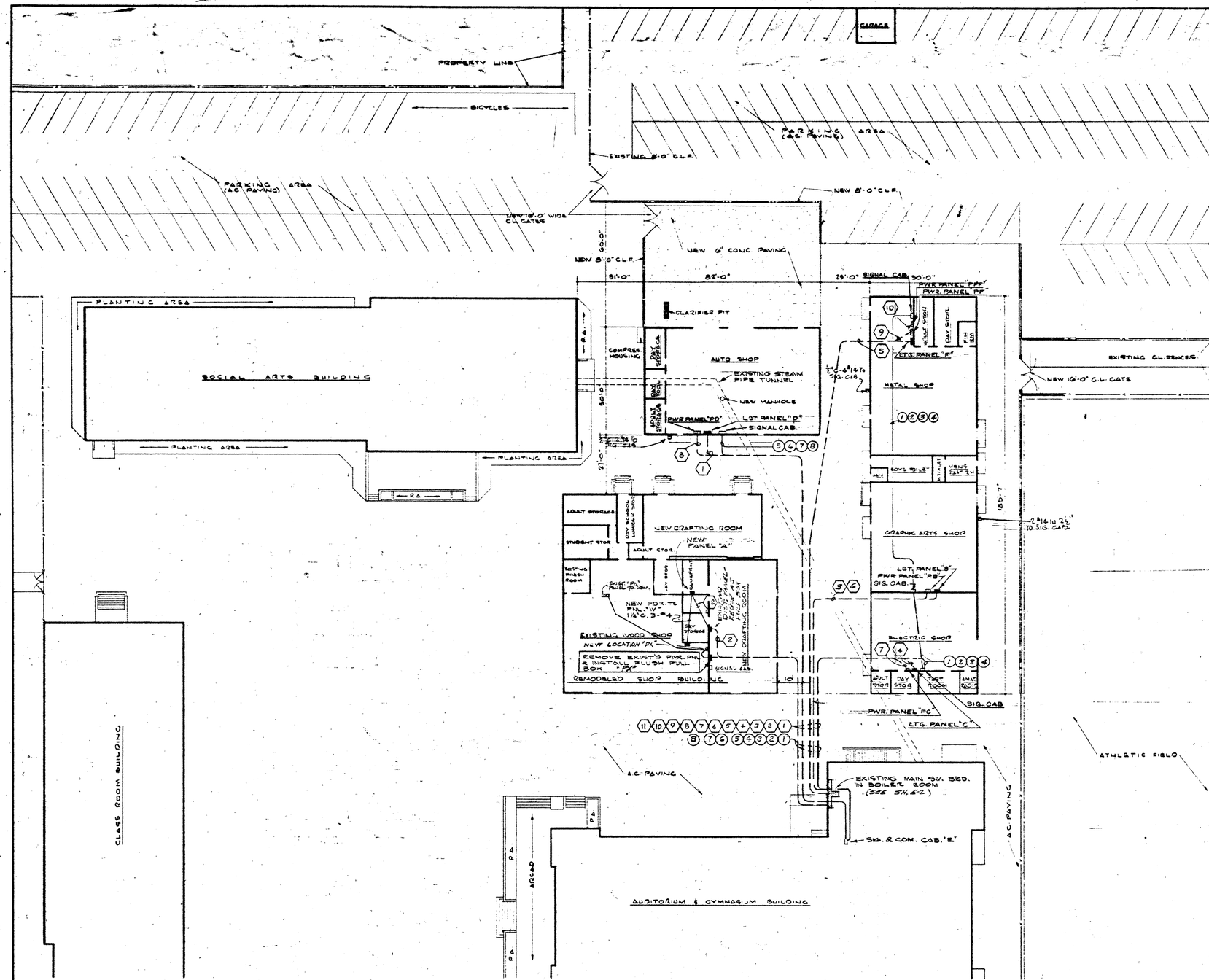
UH-39
UH-40



CONDUIT SCHEDULE

COND. NO.	SIZE	WIRE	FROM	TO	SERVICE
1	1"C	4 #12	CABINET "E"	ELEC. SHOP	BELL & FA
2		2 #12			P.A.
3		3 #12			TEL.
4		3 #12			CLOCK
5		4 #12		AUTO SHOP	BELL & FA
6		2 #12			P.A.
7		3 #12			TEL.
8		3 #12			CLOCK

ELECTRICAL PARTIAL SITE PLAN

1" = 20'-0"

N

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
OFFICE OF ARCHITECTURE AND CONSTRUCTION
25154
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

REGISTERED PROFESSIONAL ENGINEER
ROBERT E. GARRETT
No. 5899
ELECTRICAL
STATE OF CALIFORNIA

GARRETT ENGINEERS
ELECTRICAL ENGINEER
REGISTRATION NUMBER 5899

ARCHITECT
DATE DEC. 1964
APPROVED
DATE
REVISIONS
AS BUILT 12-31-66 NS

SHEET TITLE
PARTIAL SITE PLAN
ELECTRICAL

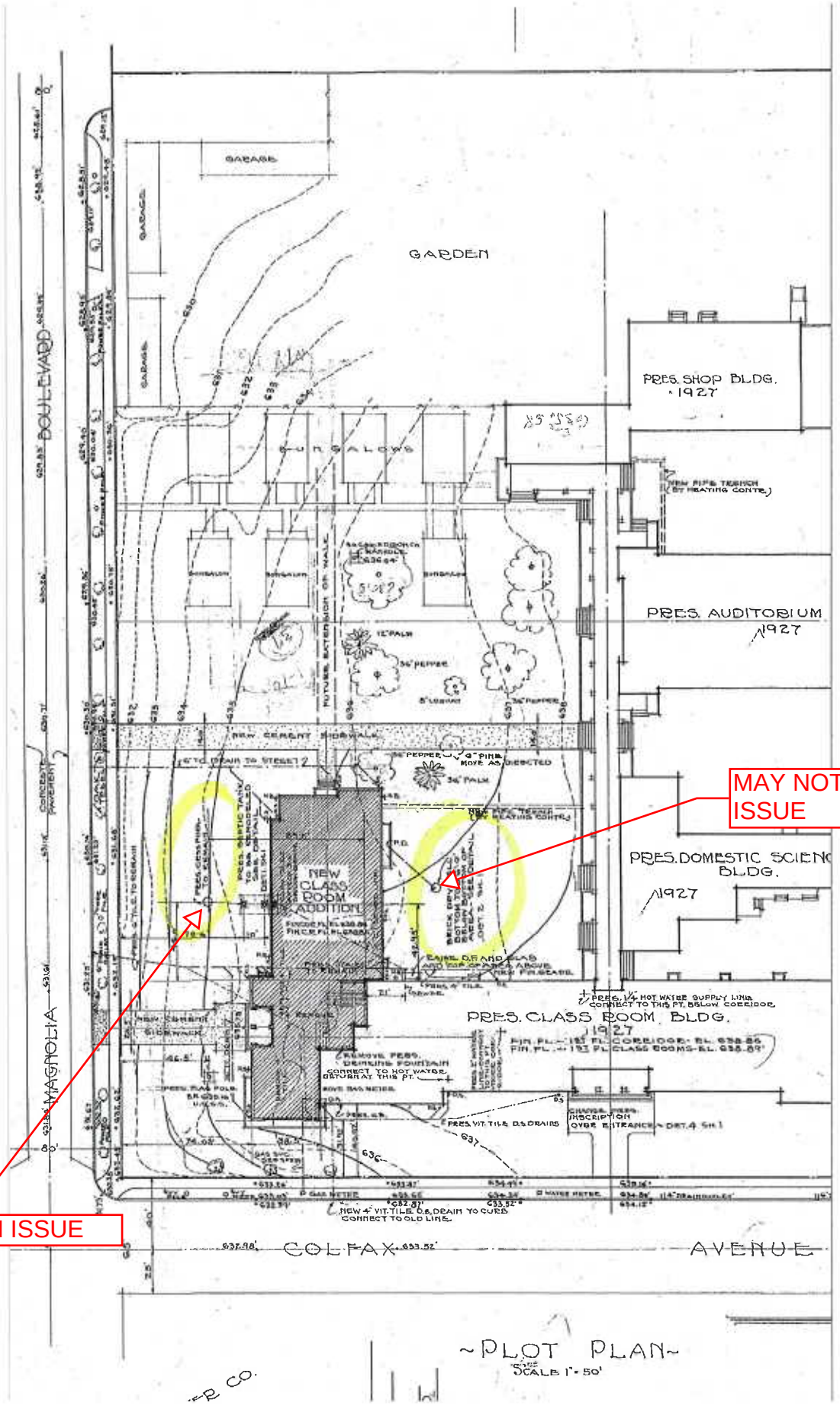
JOB NO. 6101
SCALE 1"=20'
DRAWN BY MS
CHECKED BY

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9608 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

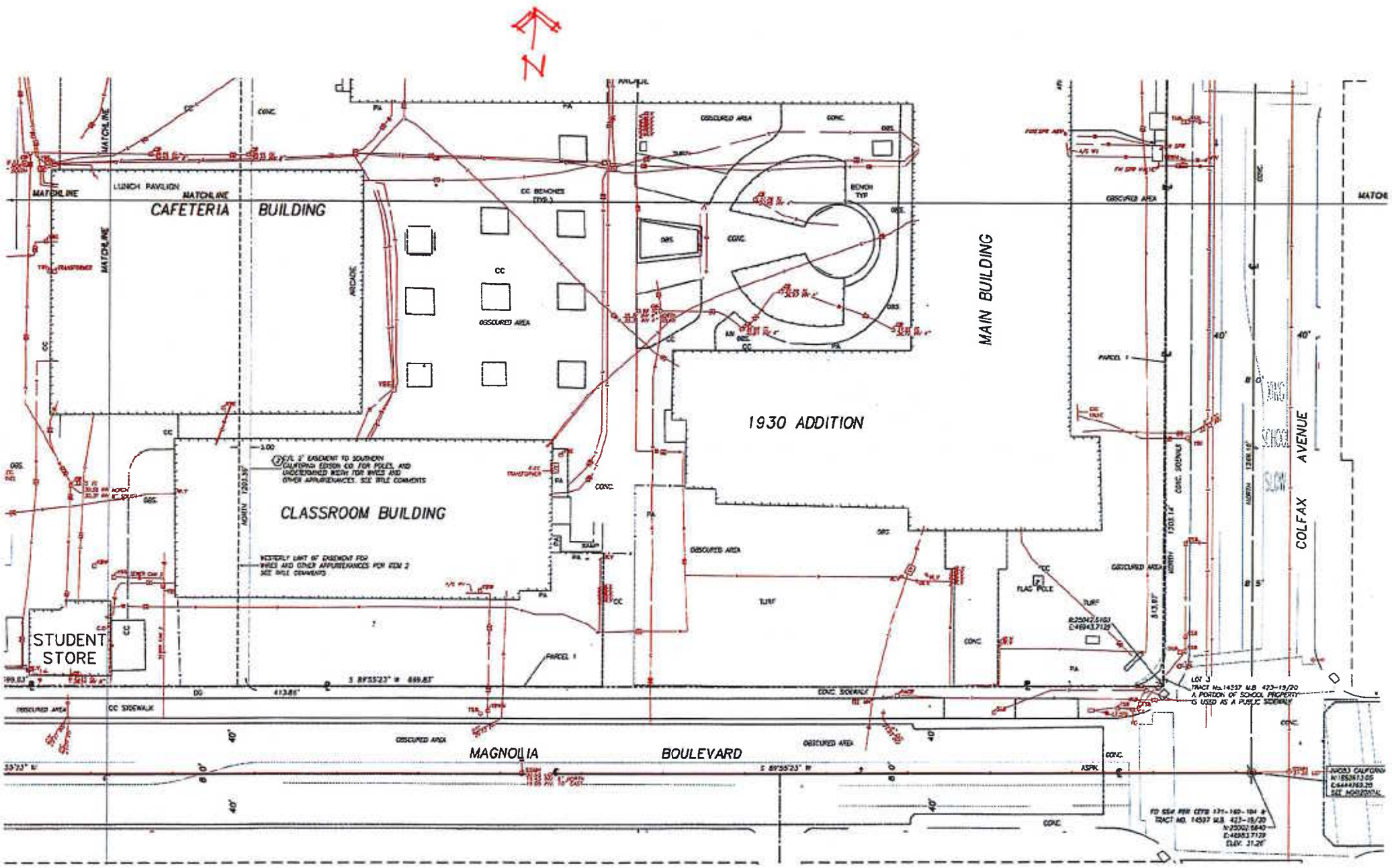
SHEET NO. E-1
OF 11 SHEETS

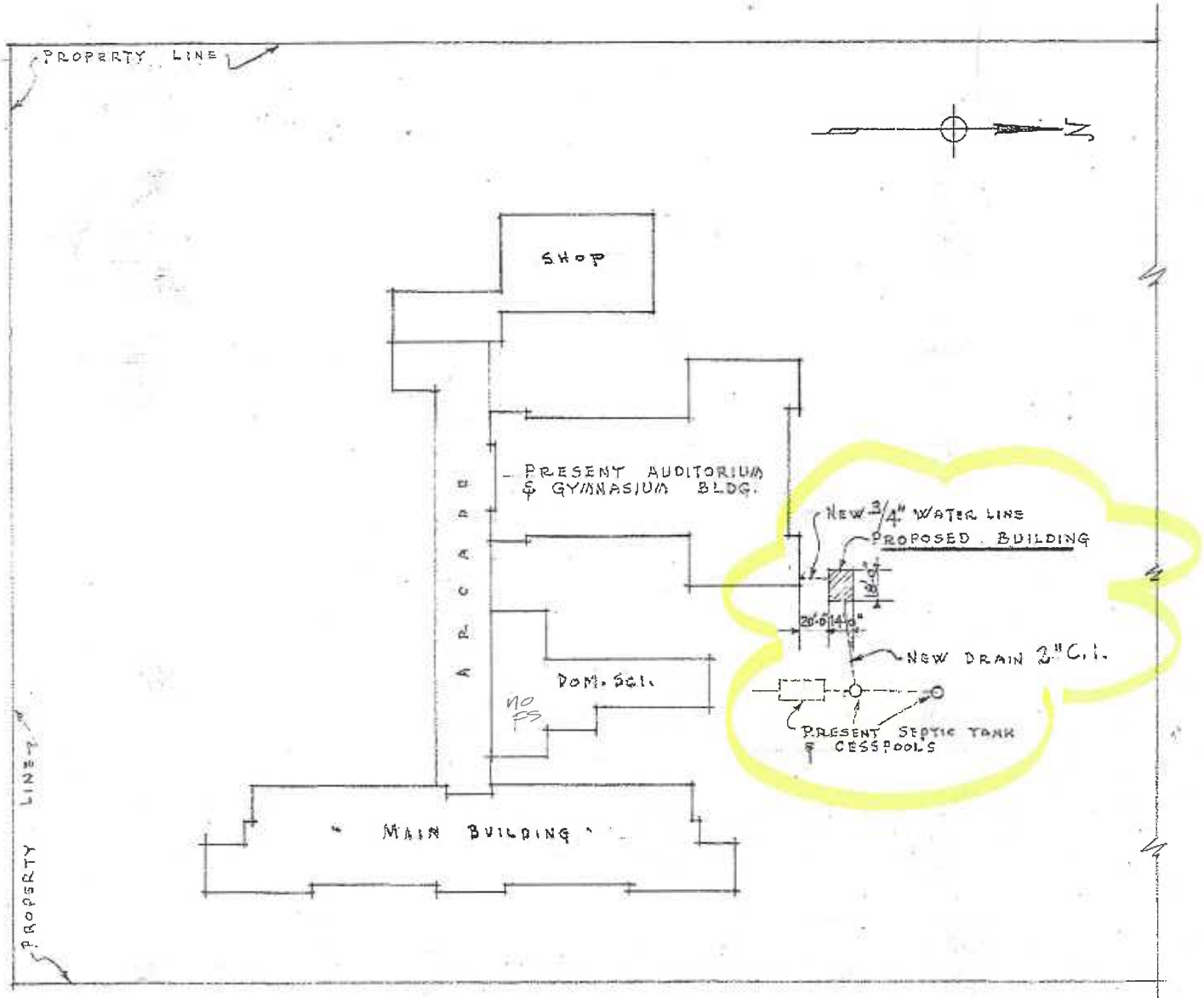
8786.24

53



RE: 8786.04.001
1930


N
CAFETERIA BUILDING
LUNCH PAVILION
MATCHLINE
CC BENCHES (TYP.)
OBSCURED AREA
CONC.
BENCH TYP
MAIN BUILDING
1930 ADDITION
CLASSROOM BUILDING
STUDENT STORE
PARCEL 1
TURF
FLAG POLE
COLFAX AVENUE
MAGNOLIA BOULEVARD
CC SIDEWALK
CONC. SIDEWALK
LOT 3
TRACT No. 14537 M.B. 423-19/20
A PORTION OF SCHOOL PROPERTY
IS USED AS A PUBLIC SIDEWALK

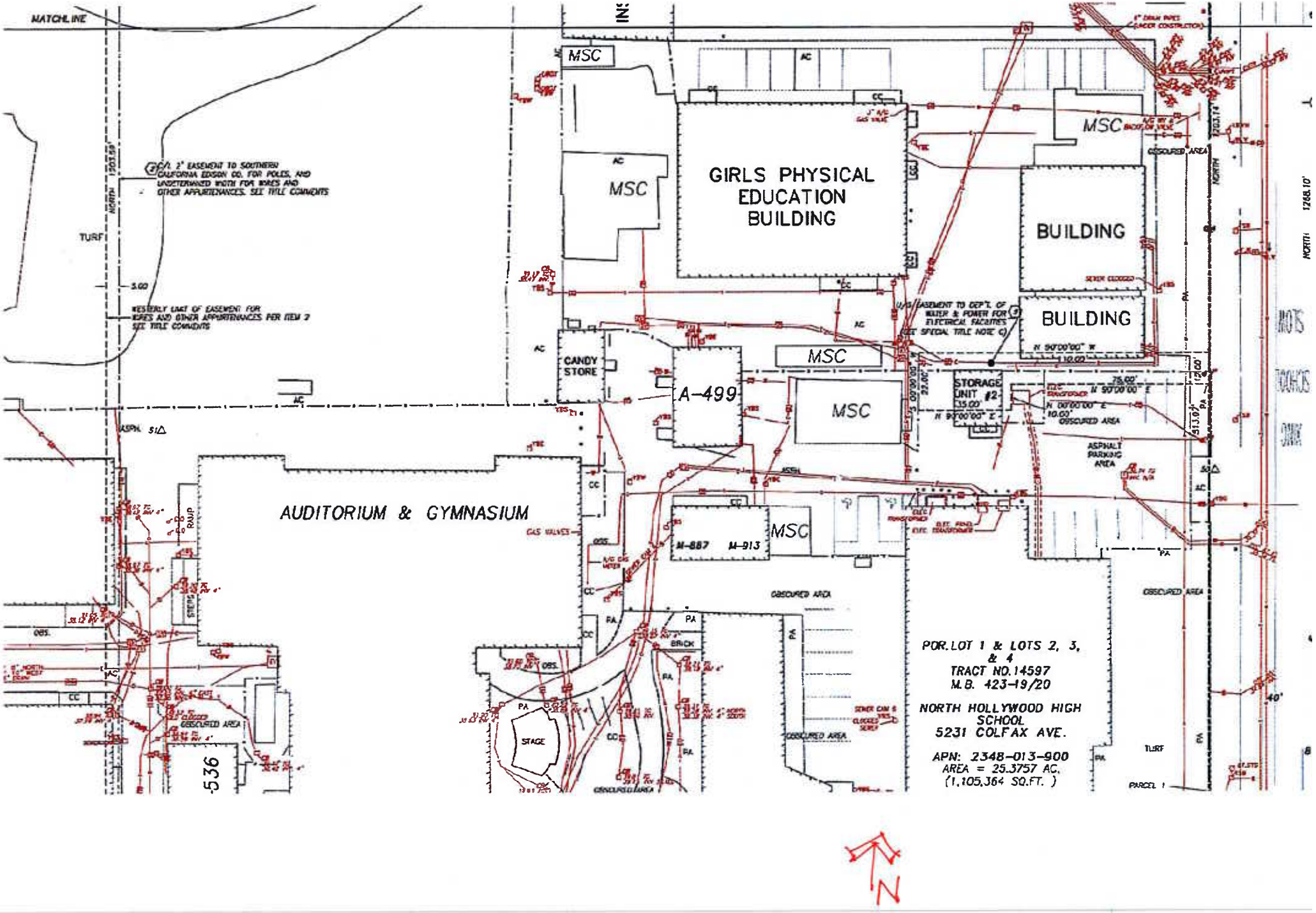


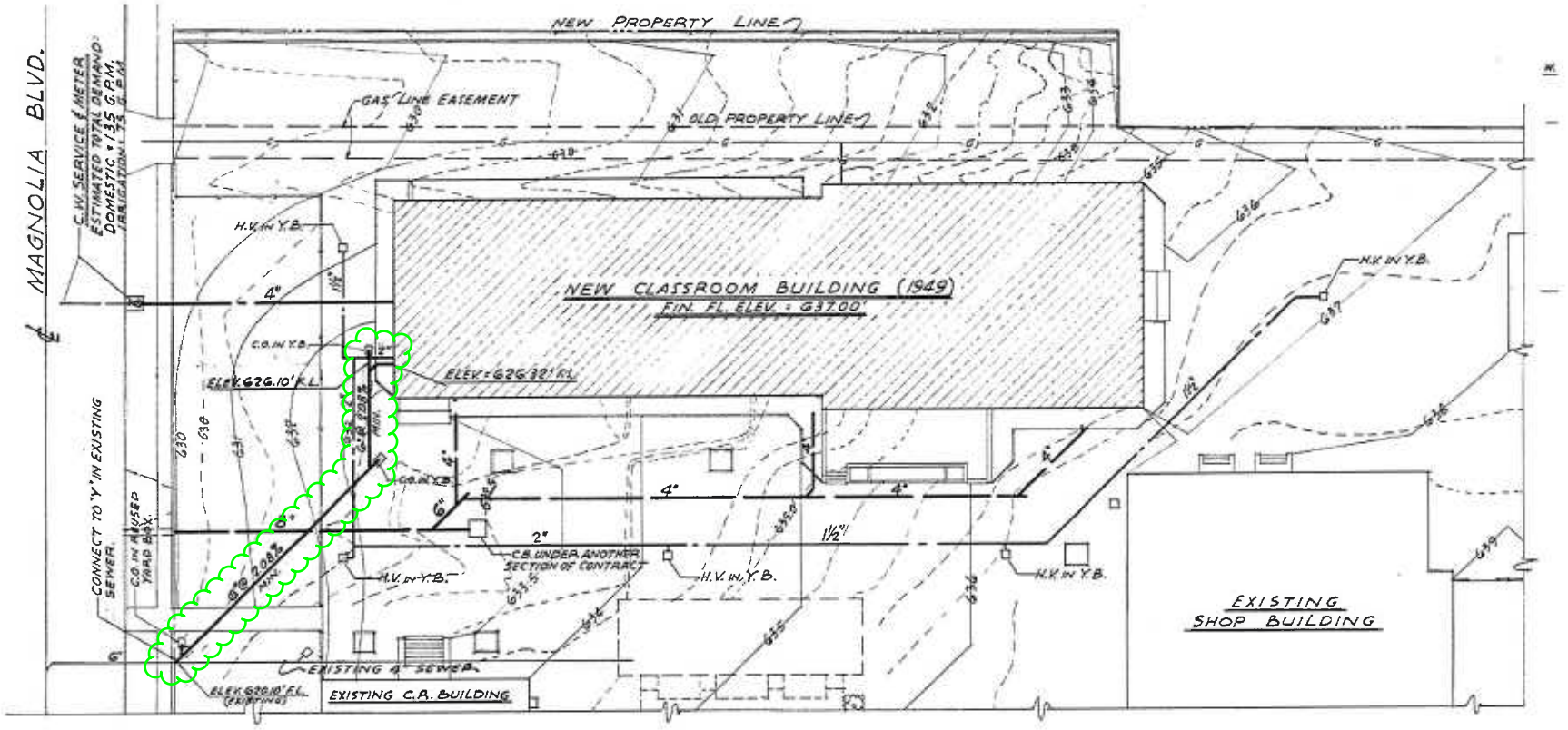
PLOT PLAN

SCALE 1" = 100 FT.

1927

RE: 8986.03.0001


MATCHLINE
MSC
GIRLS PHYSICAL EDUCATION BUILDING
BUILDING
BUILDING
CANDY STORE
A-499
STORAGE UNIT #2
AUDITORIUM & GYMNASIUM
M-887
M-913
STAGE
OBSCURED AREA
ASPHALT PARKING AREA
POR. LOT 1 & LOTS 2, 3, & 4
TRACT NO. 14597
M.B. 423-19/20
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVE.
APN: 2348-013-900
AREA = 25.3757 AC.
(1,105,364 SQ.FT.)
N



- PARTIAL PLOT PLAN -

- SCALE ~ 1" = 30' -

LEGEND

- OR W = SOIL OR WASTE PIPING
- OR D.S. = DOWNSPOUT OR STORM WATER PIPING
- OR V. = SANITARY VENT PIPING
- OR C.W. = COLD WATER PIPING
- OR H.W. = HOT WATER PIPING
- G OR F.G. = FUEL GAS PIPING
- OR C.O. = CLEANOUT
- OR H.B. = HOSE BIBB
- PLAN SIDE RISE OR G.V. = GATE VALVE (UNLESS OTHERWISE MARKED)
- OR C.V. = CHECK VALVE
- OR R.V. = PRESSURE RELIEF VALVE
- OR F.D. = FLOOR DRAIN
- OR R.D. = ROOF DRAIN
- H.V. IN Y.B. = HOSE VALVE IN YARD BOX

(CONTINUED)

(LEGEND CONTINUED)

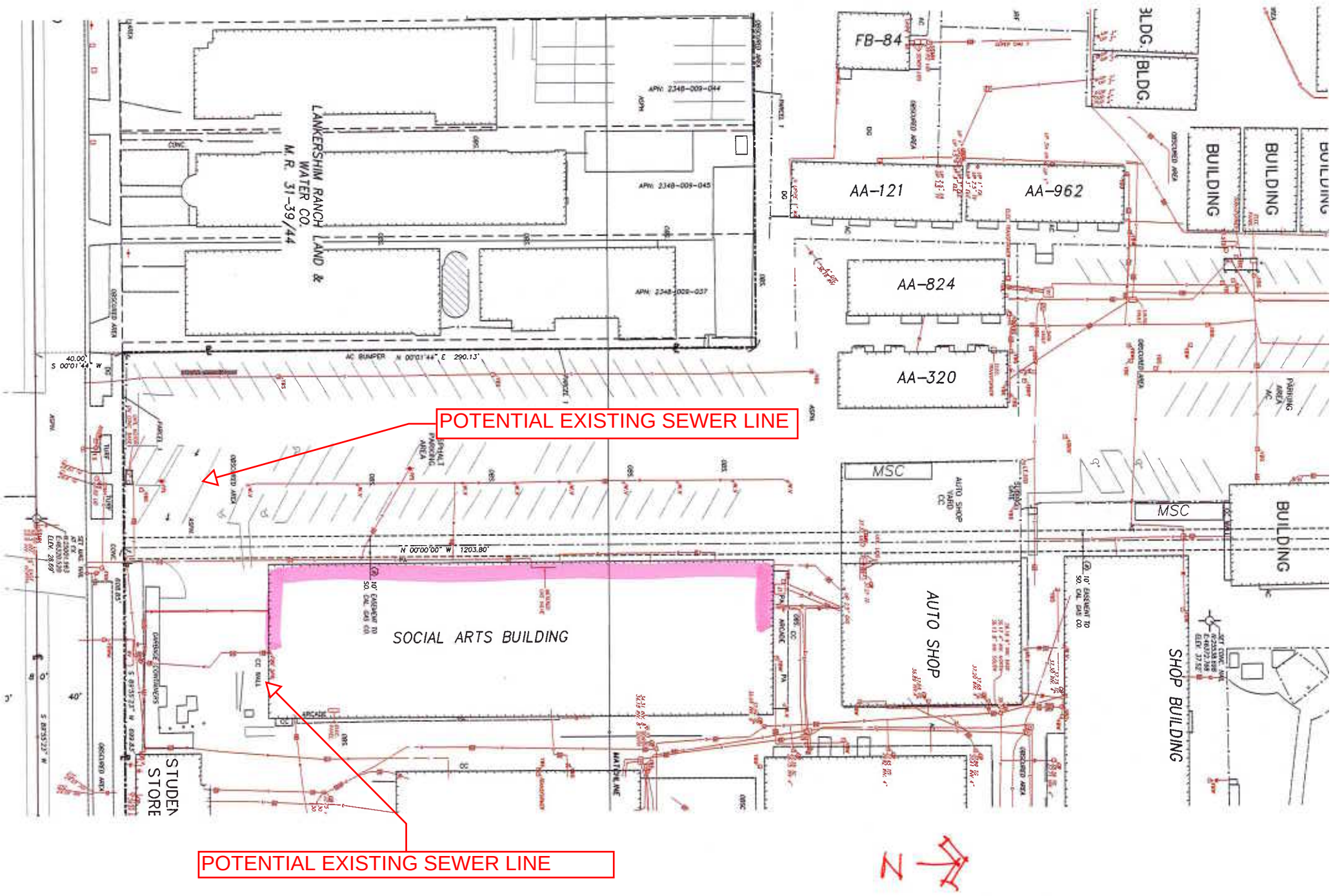
- F. H. & P. = FIRE HOSE, RACK AND CABINET
- W. C. = WATER CLOSET
- U. = URINAL
- L. = LAVATORY
- S. = SINK
- S. S. = SERVICE SINK
- D. F. = DRINKING FOUNTAIN
- V. T. R. = VENT THRU ROOF
- ℄ = CENTER LINE
- F.L. = FLOW LINE (INSIDE SURFACE AT BOTTOM OF PIPE)
- C.O. IN Y. B. = CLEANOUT IN YARD BOX.

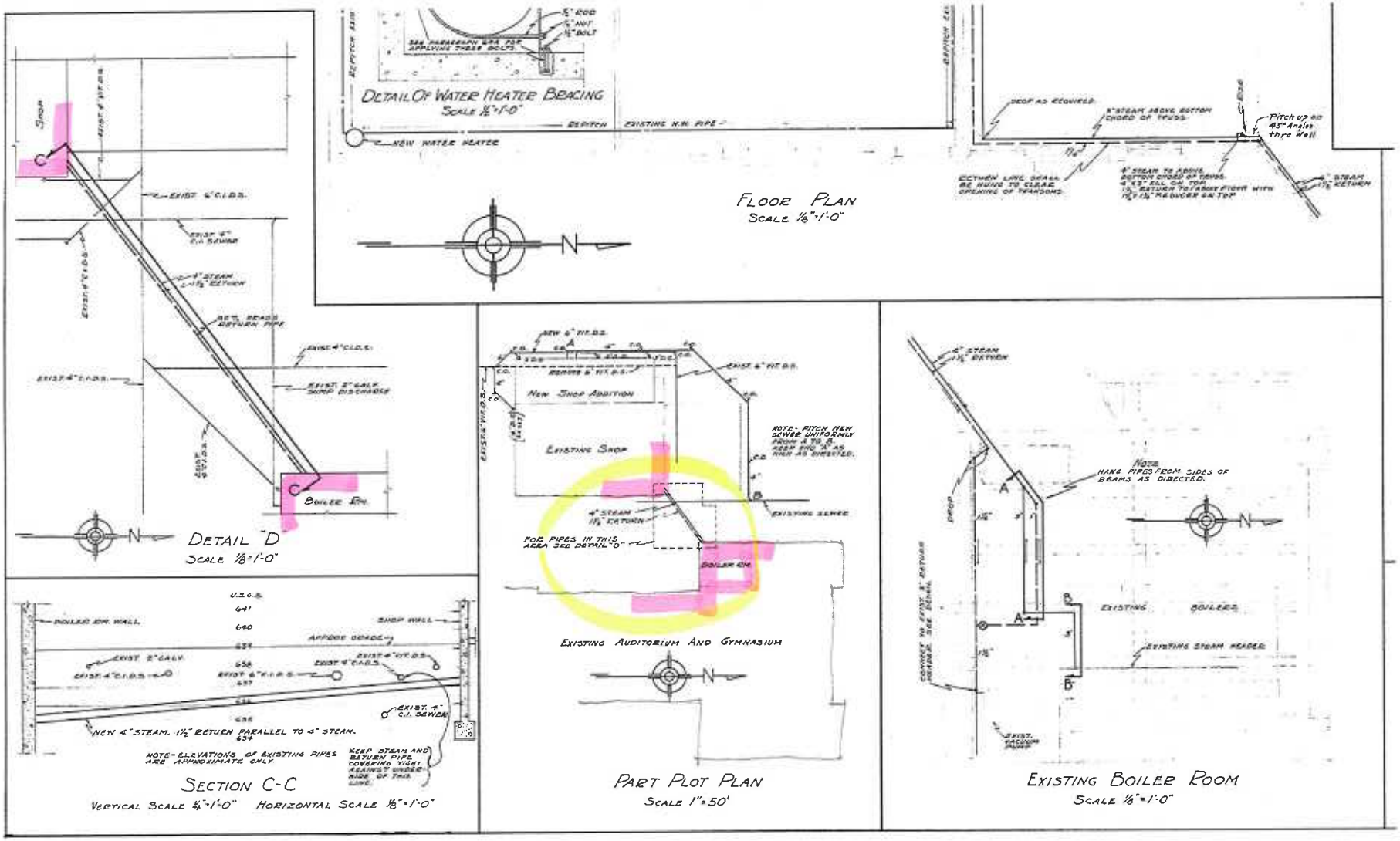
RE: 8786.18.0032

N

1949

RE: 8786.11.034
1954

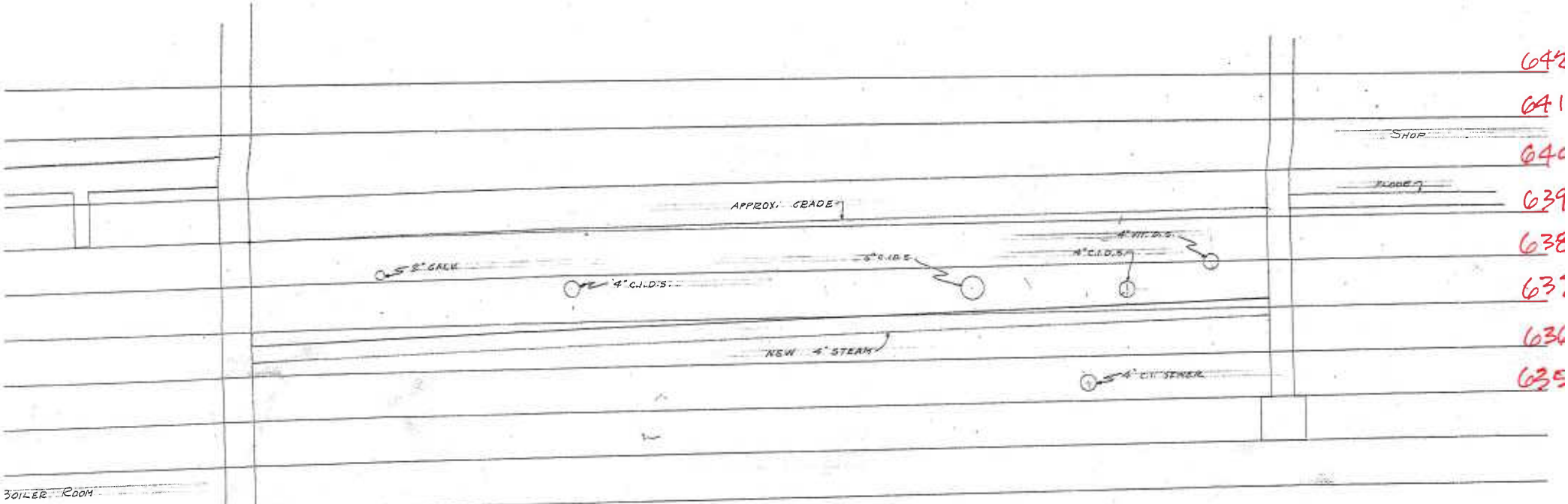

POTENTIAL EXISTING SEWER LINE
POTENTIAL EXISTING SEWER LINE
LANKERSHIM RANCH LAND & WATER CO.
M.R. 31-39/44
FB-84
AA-121
AA-962
AA-824
AA-320
BUILDING
BUILDING
BUILDING
BLDG.
BLDG.
MSC
MSC
AUTO SHOP
SOCIAL ARTS BUILDING
SHOP BUILDING
STUDEN
STORE
N 00°00'00" W 1203.80'
N 00°01'44" E 290.13'
S 00°01'44" W
N



RE: 8786.06.0005

1938

N

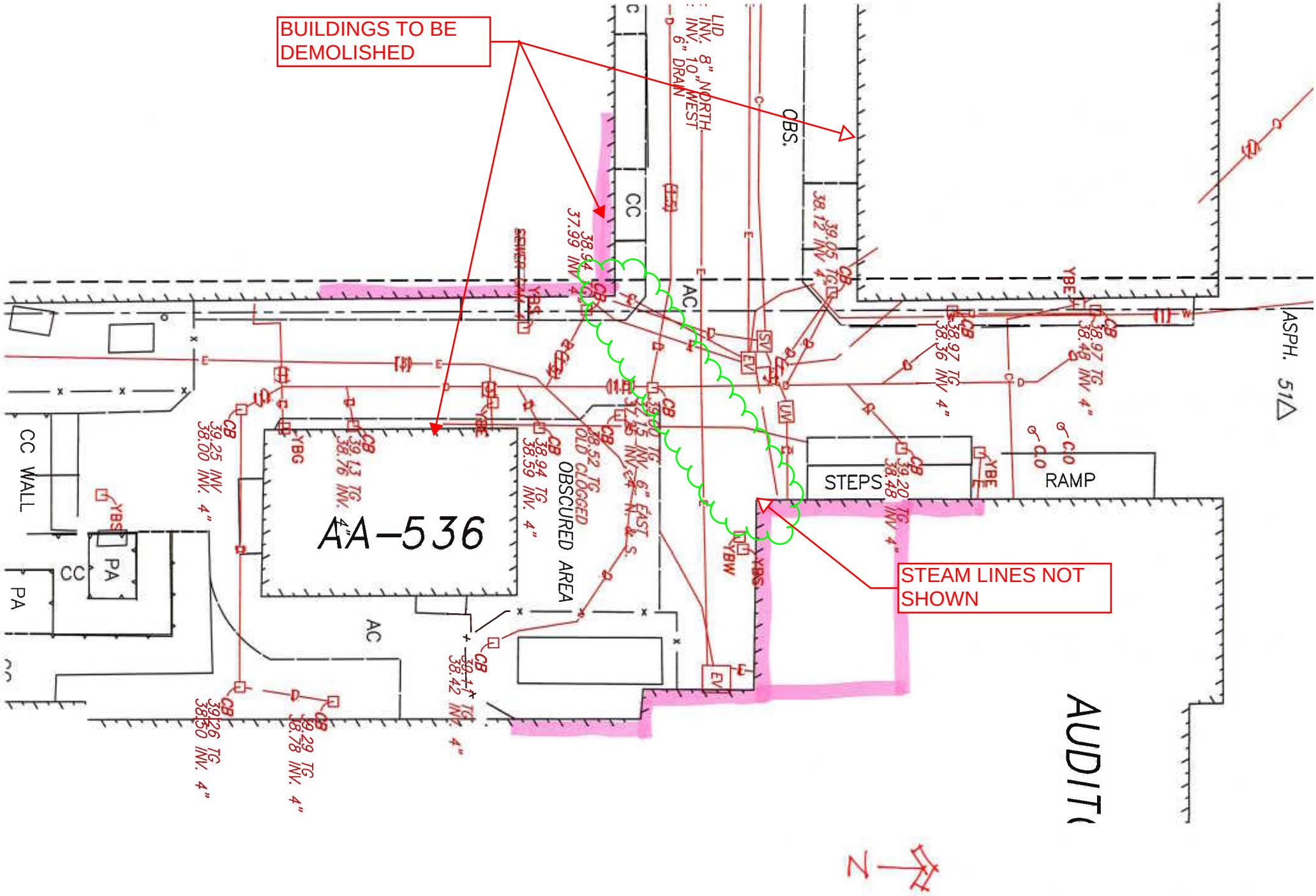


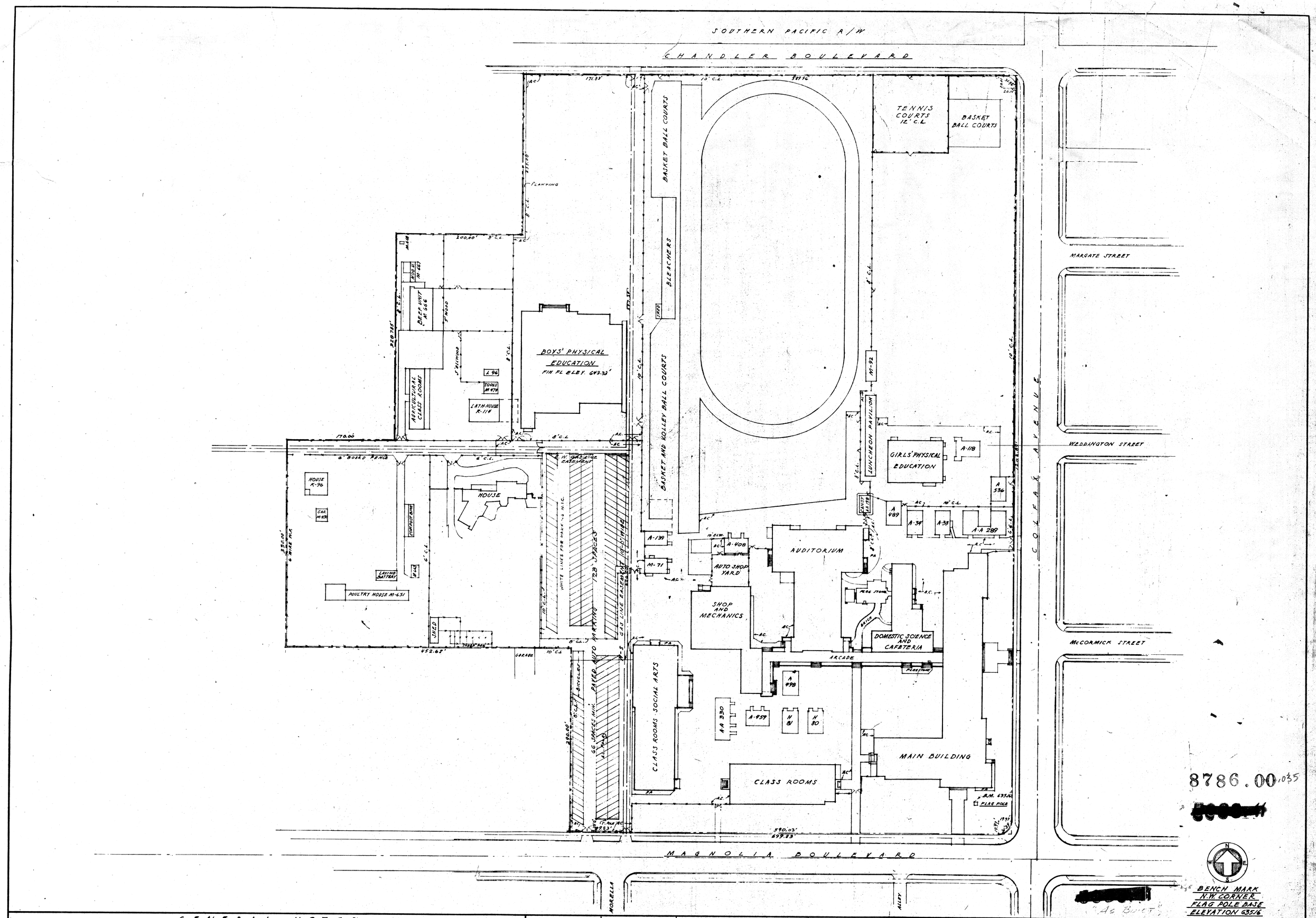
North Kelly Road Light

8786.06

AP

5033.06


BUILDINGS TO BE DEMOLISHED
STEAM LINES NOT SHOWN
AA-536
OBSCURED AREA
STEPS
RAMP
CC WALL
CC
PA
AC
OBS.
ASPH.
AUDIT
N



GENERAL NOTES

REFER TO SHEET 2 FOR DETAIL INFORMATION OF ELEVATIONS, GRADES, FENCES, PAVING, TREES, STORM DRAINAGE LINES, ETC., PRECISE LOCATION OF BUILDING, CONSTRUCTION AREA, PARKING AREA ETC., UNDER THIS CONTRACT.
REFER TO SHEET P-1 FOR UNDERGROUND WATER, GAS, SEWER AND DRAINAGE LINES.
REFER TO SHEET E-1 FOR UNDERGROUND ELECTRIC SERVICE AND DISTRIBUTION LINES.

PRINTED	REVISED
	NOV. 1955

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPLICATION NO. 11622 — APPROVED JUN 2 - 1954

SUPERVISING STRUCTURAL ENGINEER

ARCHITECT

STRUCTURAL ENGINEER

SITE PLAN
SCALE 1" = 60'-0"

WITMER, WATSON AND PIDGEON
ARCHITECTS
816 WEST FIFTH STREET — LOS ANGELES 17, CALIFORNIA

PAUL E. JEFFERS
STRUCTURAL ENGINEER
ROBERT M. WILDER
ASSOCIATE
816 W. FIFTH ST. - LOS ANGELES

STOCKLY AND BAMFORD
CONSULTING
MECHANICAL ENGINEERS
124 W. FOURTH ST.
LOS ANGELES

CHAUNCEY E. MAUK
CONSULTING
ELECTRICAL ENGINEER
124 W. FOURTH ST.
LOS ANGELES

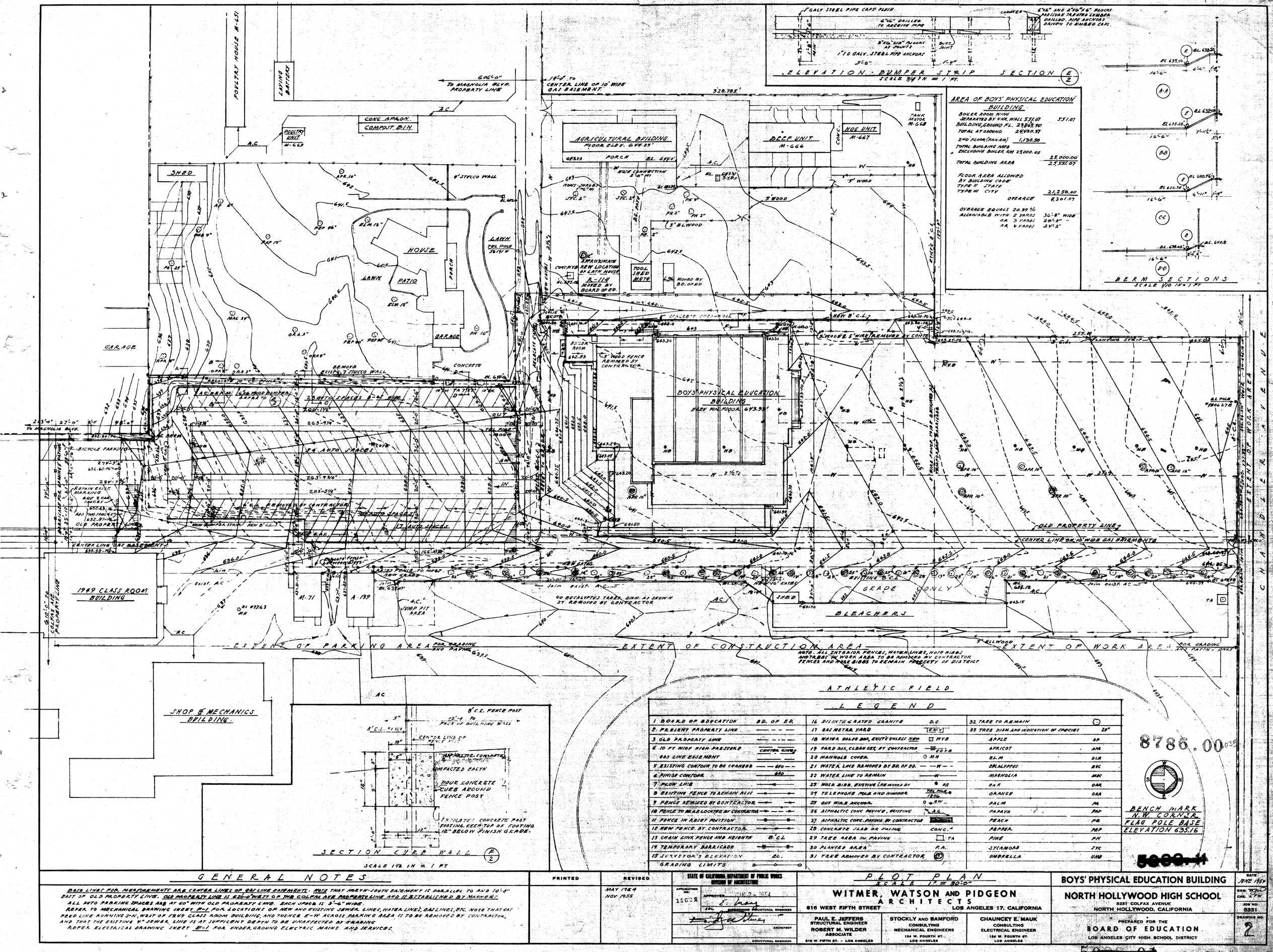
BOYS' PHYSICAL EDUCATION BUILDING

NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE
NORTH HOLLYWOOD, CALIFORNIA

PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES CITY HIGH SCHOOL DISTRICT

DATE JUNE 1954
DRN. CHK. LFW
JOB NO. 5331
DRAWING NO. 1

BV-4



AREA OF BOYS' PHYSICAL EDUCATION BUILDING

BOILER ROOM WING SEPARATED BY FIRE WALL	551.07	551.07
BUILDING, GROUND FL.	23,868.50	
TOTAL AT GROUND	24,420.57	
2ND FLOOR (FAN RM)	1,130.50	
TOTAL BUILDING AREA EXCLUDING BOILER RM	25,000.00	
TOTAL BUILDING AREA		25,551.07
FLOOR AREA ALLOWED BY BUILDING CODE TYPE II STATE		
TYPE III CITY		21,250.00
OVERAGE		4,301.07
OVERAGE EQUALS 20.99 % ALLOWABLE WITH 2 YARDS		36'-8" WIDE
OR 3 YARDS		28'-8" "
OR 4 YARDS		24'-2"

LEGEND

1 BOARD OF EDUCATION	BD. OF ED.	16 DISINTEGRATED GRANITE	D.G.	32 TREE TO REMAIN	
2. PRESENT PROPERTY LINE		17 GAS METER, YARD	GMY	33 TREE DIAM. AND INDICATION OF SPECIES	28"
3 OLD PROPERTY LINE		18 WATER VALVE BOX, EXIST'G UNLESS NEW	WVB	APPLE	AP
4 10 FT WIDE HIGH PRESSURE GAS LINE EASEMENT	CENTER LINE	19 YARD BOX, CLEAN OUT, BY CONTRACTOR	YB CO	APRICOT	APR
5 EXISTING CONTOUR TO BE CHANGED	640	20 MANHOLE COVER	MH	EUCALYPTUS	EUC
6 FINISH CONTOUR	640	21 WATER LINE REMOVED BY BD. OF ED.	W	MAGNOLIA	MAG
7 PLOW LINE		22 WATER LINE TO REMAIN	W	OAK	OAK
8 EXISTING FENCE TO REMAIN AS IS		23 HOSE BIBB, EXISTING (REMOVED BY)	HB	ORANGE	ORA
9 FENCE REMOVED BY CONTRACTOR		24 TELEPHONE POLE AND NUMBER	TEL POLE 1206	PALM	PA
10 FENCE TO BE RELOCATED BY CONTRACTOR		25 GUY WIRE ANCHOR	GW	PAPAYA	PAP
11 FENCE IN RELOCT POSITION		26 ASPHALTIC CONC PAVING, EXISTING	AC	PEACH	PE
12 NEW FENCE, BY CONTRACTOR		27 ASPHALTIC CONC. PAVING, BY CONTRACTOR		PEPPER	PEP
13 CHAIN LINK FENCE AND HEIGHT	8' CL	28 CONCRETE SLAB OR PAVING	CONC.	PINE	PN
14 TEMPORARY BARRICADE		29 TREE AREA IN PAVING	TA	SYCAMORE	SYC
15 SURVEYOR'S ELEVATION	EL.	30 PLANTED AREA	P.A.	UMBRELLA	UMB
GRADING LIMITS		31 TREE REMOVED BY CONTRACTOR			

8786.00

BENCH MARK
N.W. CORNER
FLAG POLE BASE
ELEVATION 635.16

5000-11

GENERAL NOTES

BASE LINES FOR MEASUREMENTS ARE CENTER LINES OF GAS LINE EASEMENTS. NOTE THAT NORTH-SOUTH EASEMENT IS PARALLEL TO AND 10'-0" EAST OF OLD PROPERTY LINES. OLD PROPERTY LINE IS 620'-0" WEST OF THE COLFAX AVE PROPERTY LINE AND IS ESTABLISHED BY MARKERS.

ALL AUTO PARKING SPACES ARE AT 60° WITH OLD PROPERTY LINE. EACH SPACE IS 8'-6" WIDE.

REFER TO MECHANICAL DRAWING SHEET M-1 FOR LOCATIONS OF NEW AND EXISTING SEWER LINES, WATER LINES, GAS LINES, ETC. NOTE THAT GAS REED LINE RUNNING N-S, WEST OF 1949 CLASS ROOM BUILDING, AND THENCE E-W ACROSS PARKING AREA IS TO BE REMOVED BY CONTRACTOR, AND THAT THE EXISTING 9" SEWER LINE IS AT SUFFICIENT DEPTH TO BE UNAFFECTED BY GRADING.

REFER ELECTRICAL DRAWING SHEET E-1 FOR UNDER GROUND ELECTRIC MAINS AND SERVICES.

PRINTED	REVISED
	MAY 1954
	NOV 1955

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPLICATION NO. 11012

APPROVED JUN 2 - 1954

E. Ivey
EDUCATIONAL STRUCTURAL ENGINEER

ARCHITECT

STRUCTURAL ENGINEER

PLOT PLAN
SCALE 1" = 30'-0"

WITMER, WATSON AND PIDGEON
ARCHITECTS
816 WEST FIFTH STREET · LOS ANGELES 17, CALIFORNIA

PAUL E. JEFFERS
STRUCTURAL ENGINEER
ROBERT M. WILDER
ASSOCIATE
816 W. FIFTH ST. - LOS ANGELES

STOCKLY AND BAMFORD
CONSULTING
MECHANICAL ENGINEERS
124 W. FOURTH ST.,
LOS ANGELES

CHAUNCEY E. MAUK
CONSULTING
ELECTRICAL ENGINEER
124 W. FOURTH ST.
LOS ANGELES

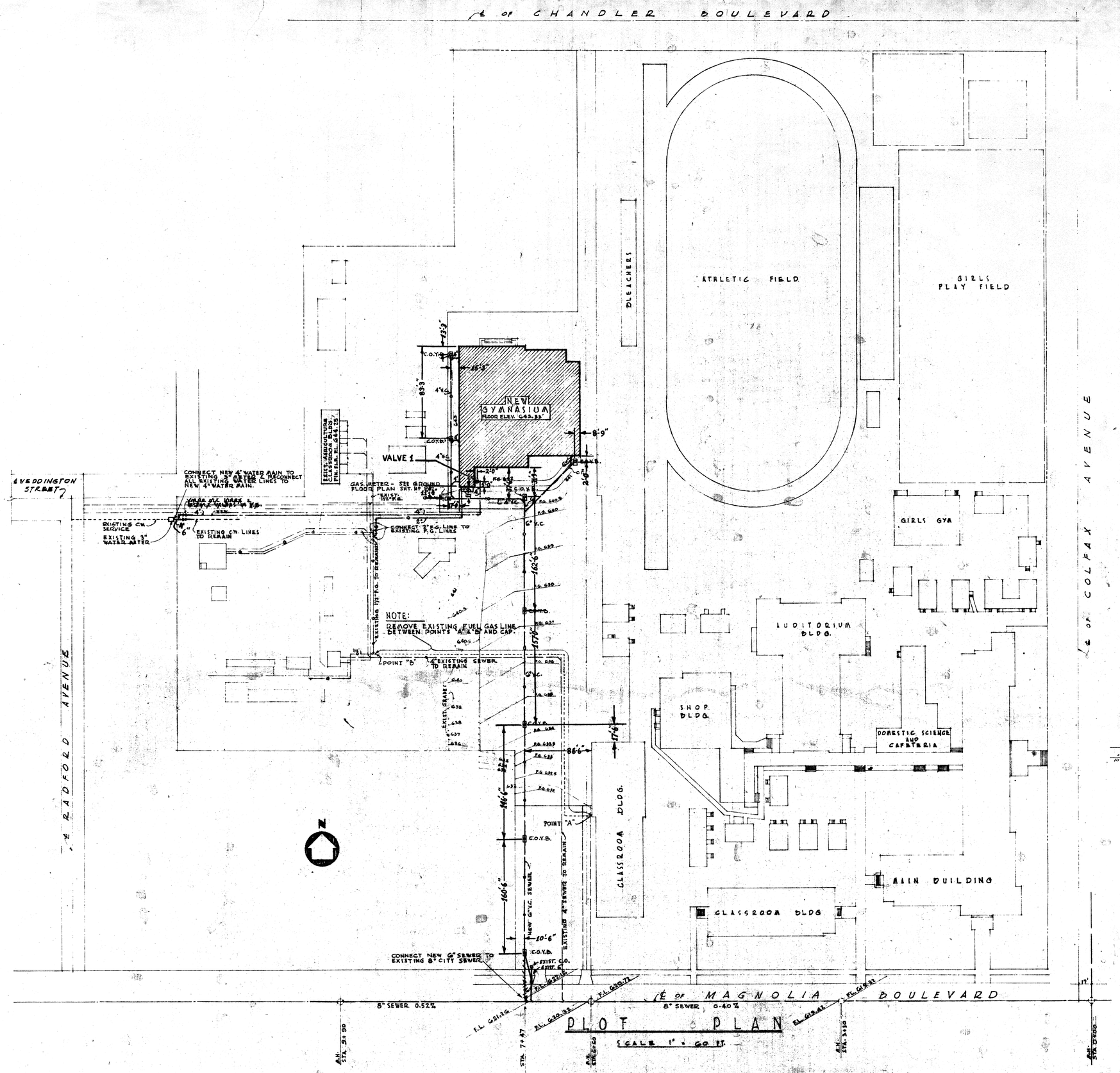
BOYS' PHYSICAL EDUCATION BUILDING
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE
NORTH HOLLYWOOD, CALIFORNIA

PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES CITY HIGH SCHOOL DISTRICT

DATE JUNE 1954
DRN. BJH
CHK. LFW
JOB NO. 5331
DRAWING NO. 2

5000-01

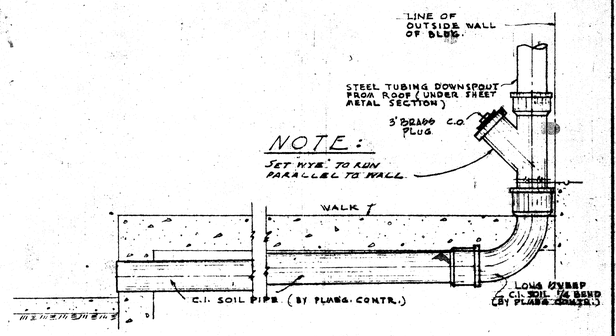
B4-4



PLOT PLAN

SCALE 1" = 60 FT.

LEGEND		
SOIL PIPE OR WASTE PIPE	SP. OR W.P.	
VENT PIPE	V.P.	
COLD WATER	C.W.	
HOT WATER SUPPLY	H.W.S.	
HOT WATER RETURN	H.W.R.	
FUEL GAS	F.G.	
VALVE	V.	
CHECK VALVE	C.V.	
SILL COCK	S.C.	
FLOOR DRAIN	F.D.	
SHOWER DRAIN	S.D.	
CLEANOUT	C.O.	
CLEANOUT IN YARD BOX	C.O.Y.B.	
WATER CLOSET	W.C.	
URINAL	U.	
LAVATORY	LAV.	
SERVICE SINK	S.S.	
SHOWER	SHWR.	
VENT PIPE THRU ROOF	V.P.T.R.	
CAST IRON	C.I.	
FLOOR SINK	F.S.	
LIQUID SOAP VALVE	S.V.	
DOWNSPOUT DRAIN LINE	D.S.	
FIRE HOSE CAB. & 75 FT. HOSE	F.H.C.	
CAST IRON	C.I.	
VITRIFIED CLAY	V.C.	
WROUGHT IRON	W.I.	



DETAIL "B"

NOT TO SCALE

8786.00

[redacted]

NOTE: CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF STREET SEWER CONNECTIONS BEFORE TRENCH WORK IS STARTED ON THE SITE. SHOULD THERE BE ANY DISCREPANCY, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE BOARD. REFER TO SHEET S-5 FOR PERMISSIBLE LOCATIONS OF PIPING ADJACENT TO FOOTINGS.

PRINTED	REVISED	STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE	PLUMBING PLOT PLAN & LEGEND	BOYS' PHYSICAL EDUCATION BUILDING	DATE JUNE 1954
	MAY 1954 NOV. 1955	APPLICATION NO. 11622 APPROVED JUN 2 - 1954 SUPERVISING STRUCTURAL ENGINEER	WITMER, WATSON AND PIDGEON ARCHITECTS 816 WEST FIFTH STREET LOS ANGELES 17, CALIFORNIA	NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA	DRN. J.V.B. CHK. V.B.S. J.V.B. JOB NO. 5331
		ARCHITECT STRUCTURAL ENGINEER	PAUL E. JEFFERS STRUCTURAL ENGINEER ROBERT M. WILDER ASSOCIATE 816 W. FIFTH ST. - LOS ANGELES; STOCKLY AND BAMFORD CONSULTING MECHANICAL ENGINEERS 124 W. FOURTH ST. LOS ANGELES; CHAUNCEY E. MAUK CONSULTING ELECTRICAL ENGINEER 124 W. FOURTH ST. LOS ANGELES	PREPARED FOR THE BOARD OF EDUCATION LOS ANGELES CITY HIGH SCHOOL DISTRICT	DRAWING NO. P-1

[redacted]

EXISTING 8' C.L.F.

PROPERTY LINE

EXISTING C.L.R.

PARKING AREA (A.C. PAVING)

PARKING AREA (A.C. PAVING)

NEW 16'-0" WIDE C.L. GATES

CONST. CONC. CURB IF 2' IS LESS THAN 18" IF 2' IS GREATER THAN 18" CONST. GRAVITY WALL

NEW 8'-0" C.L.F.

NEW 16'-0" WIDE C.L. GATES

GRAVITY WALL

CANTILEVER PAT - TOP AT GRADE ELEV. = 637.80

NEW 8'-0" C.L.F.

SOCIAL ARTS BUILDING

AUTO SHOP
FIN. FLR. ELEV. = 638.00

NEW M.H.

EXIST. STEAM PIPE TUNNEL

METAL SHOP
FIN. FLR. ELEV. = 638.00

MEMORIAL F.F. EL. = 638.75

BOYS TOILET

HANDRAIL

PLANTING AREA

P.A.

DRAFTING ROOM

GRAPHIC ART SHOP
FIN. FLR. ELEV. = 638.75

EXIST. T.B.

DIST. T.B.

A.C. PAVING

DRAFTING ROOM
FIN. FLR. ELEV. (639.50±)

ELECTRIC SHOP
FIN. FLR. ELEV. = 639.50

EXISTING WOOD SHOP

CONST GRAVITY WALL PER DETAIL

EXIST. M.H.

EXIST. C.B.

GRADE AREA TO DRAIN. (UNTIL NEXT PHASE IS COMPLETED)

NOTE: FOR REMOVALS AND DEMOLITION AND NEW CONSTRUCTION IN THIS AREA, SEE ARCH. DRAWINGS

EXIST. A.C. PAVING

PROTECT EXIST. TREE

WARP A.C. LOCALLY 10:1 MAX. TO JOIN EXIST. A.C.

AUDITORIUM & GYMNASIUM BUILDING

A.C. PAVING

ATHLETIC FIELD

EXISTING CONCRETE CURB, GUTTER, FENCE, FENCE POSTS & RAILS

TYP. EXIST. CONC. GUTTER

JOIN EXIST. GRADES

CONST. CONC. CURB IF 2' IS, LESS THAN 18", IF 2' IS GREATER THAN 18" CONST. GRAVITY WALL

18'-0" SLIDING GATES

F.S. = T.C. (637.90)

(637.90)

(637.00)

(638.00)

(639.00)

(639.50)

(639.46)

(639.25)

(639.59)

(637.39)

(637.50)

(637.36)

(637.25)

(637.13)

(637.00)

(636.88)

(636.75)

(636.63)

(636.50)

(636.38)

(636.25)

(636.13)

(636.00)

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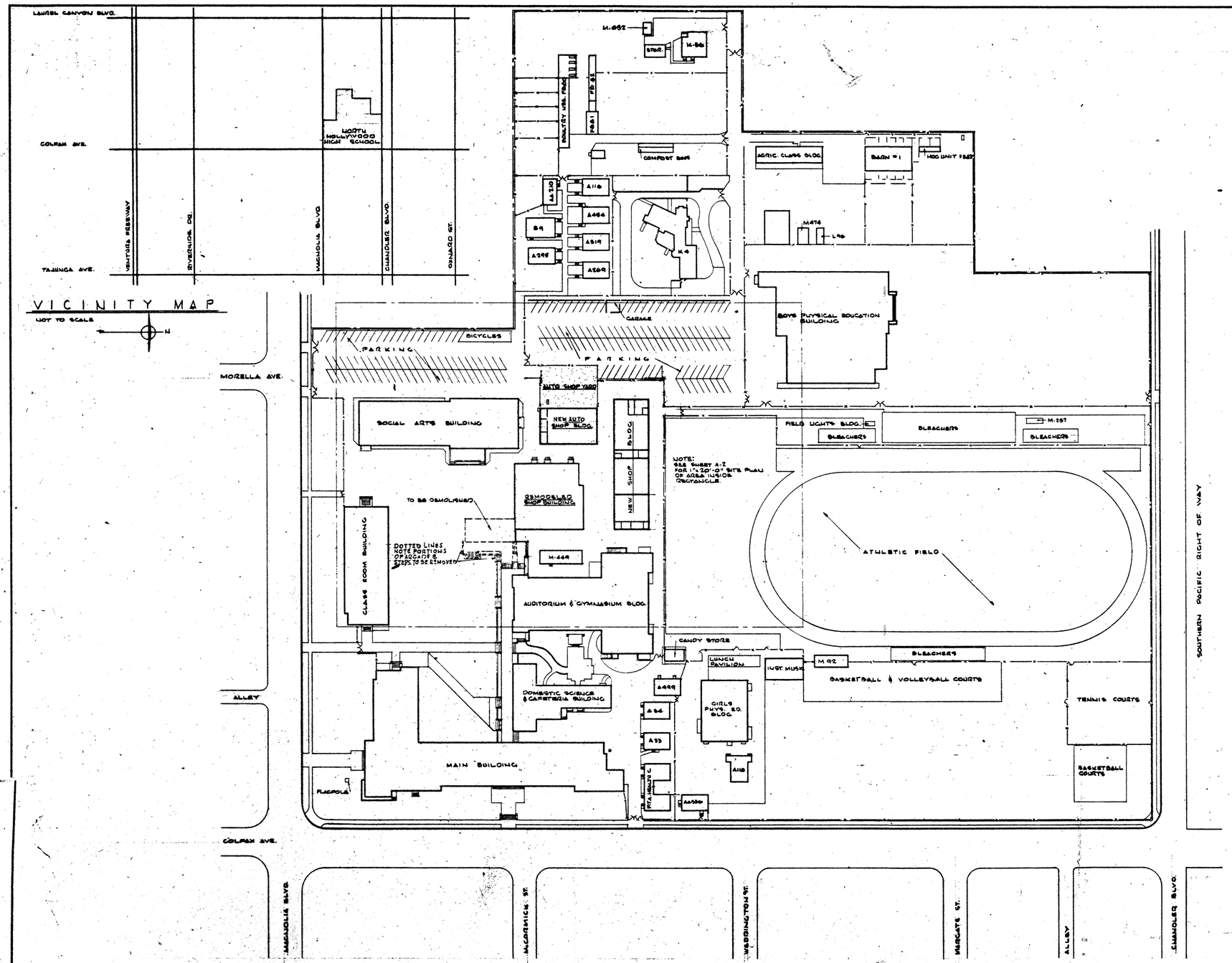
(632.75)

(632.63)

(632.50)

(632.38)



VICINITY MAP

NOT TO SCALE

N

SITE PLAN

Scale 1"=60'-0"

NOTE!
ALL BUILDINGS ARE EXISTING EXCEPT NEW AUTO SHOP BLDG & NEW SHOP BUILDING.

N

SHEET INDEX

	SHT. No	TITLE
CIVIL	C-1	GRADING PLAN
ARCHITECTURAL	A-1	SITE PLAN & SHEET INDEX
	A-2	PARTIAL SITE PLAN
	A-3	SITE REMOVAL PLAN
	A-4	FLOOR PLAN, EQUIPT. SCHEDULE & INT. ELEVATIONS (NEW SHOP BLDG.)
	A-5	EXTERIOR ELEVATIONS & SCHEDULES OF NEW SHOP BUILDING.
	A-6	FLOOR PLANS & INT. ELEVATIONS (METAL SHOP & SANITARY UNIT)
	A-7	INTERIOR ELEVATIONS (METAL SHOP)
	A-8	METAL SHOP INTERIOR DETAILS
	A-9	METAL SHOP INTERIOR DETAILS
	A-10	SANITATION UNIT INTERIOR DETAILS
	A-11	FLOOR PLANS (ELECTRIC & GRAPHIC ARTS SHOPS)
	A-12	ELECTRIC & GRAPHIC ART SHOPS INTERIOR ELEVATIONS
	A-13	GRAPHIC ARTS SHOP INTERIOR DETAILS
	A-14	GRAPHIC ARTS SHOP INTERIOR DETAILS
	A-15	ELECTRIC SHOP INTERIOR DETAILS
	A-16	ELECTRIC SHOP INTERIOR DETAILS
	A-17	FLOOR PLAN (AUTO SHOP)
	A-18	EXTERIOR ELEVATIONS (AUTO SHOP)
	A-19	INTERIOR ELEVATIONS (AUTO SHOP)
	A-20	AUTO SHOP INTERIOR DETAILS
	A-21	AUTO SHOP INTERIOR DETAILS
	A-22	FLOOR PLAN (EXISTING SHOP BUILDING)
	A-23	EXTERIOR ELEVATIONS (EXISTING SHOP BUILDING)
	A-24	PARTIAL FLOOR PLAN (EXISTING SHOP BUILDING)
	A-25	PARTIAL FLOOR PLAN (EXISTING SHOP BUILDING)
	A-26	INTERIOR ELEVATIONS (EXISTING SHOP BUILDING)
	A-27	INTERIOR ELEVATIONS (EXISTING SHOP BUILDING)
	A-28	EXISTING SHOP BUILDING INTERIOR DETAILS
	A-29	EXISTING SHOP BUILDING INTERIOR DETAILS
	A-30	EXISTING SHOP BUILDING INTERIOR DETAILS
	A-31	ROOF PLANS & SECTIONS
	A-32	MISCELLANEOUS DETAILS
	A-33	MISCELLANEOUS DETAILS
	A-34	CASEWORK TYPICAL DETAILS
	A-35	EXISTING EQUIPMENT LAYOUT
	A-36	SLIDING GATE
STRUCTURAL	S-1	ROOF FRAMING PLAN & DETAILS (AUTO SHOP)
	S-2	ROOF DETAILS (AUTO SHOP)
	S-3	FLOOR & FOUNDATION PLAN (AUTO SHOP)
	S-4	WALL ELEVATIONS, SECTIONS & DETAILS (AUTO SHOP)
	S-5	ROOF FRAMING PLAN & DETAILS (NEW SHOP BUILDING)
	S-6	FLOOR & FOUNDATION PLAN & DETAILS (NEW SHOP BLDG.)
	S-7	DETAILS (NEW SHOP BUILDING)
	S-8	WALL ELEVATIONS, SECTIONS & DETAILS (NEW SHOP BLDG.)
	S-9	PARTIAL PLAN & DETAILS (EXISTING SHOP BUILDING)
	S-10	PARTIAL PLAN & DETAILS (EXISTING SHOP BUILDING)
MECHANICAL	M-1	NEW SHOP BLDG. & AUTO SHOP (HEATING & VENTILATING)
	M-2	EXISTING SHOP BUILDING (HEATING & VENTILATING)
	MP-1	DETAILS (PLUMBING, HEATING & VENTILATING)
PLUMBING	P-1	SITE PLAN (PLUMBING)
	P-2	NEW SHOP BLDG. & AUTO SHOP (PLUMBING)
	P-3	EXISTING SHOP BUILDING (PLUMBING)
ELECTRICAL	E-1	PARTIAL SITE PLAN (ELECTRICAL)
	E-2	SINGLE LINE DIAGRAM
	E-3	SYMBOLS & SCHEDULES
	E-4	LIGHTING AND POWER PLANS (ELECTRIC SHOP)
	E-5	LIGHTING PLAN (METAL SHOP & SANITARY UNIT)
	E-6	POWER PLAN (METAL SHOP & SANITARY UNIT)
	E-7	LIGHTING PLAN (EXISTING SHOP BUILDING)
	E-8	POWER PLAN (EXISTING SHOP BUILDING)
	E-9	LIGHTING & POWER PLANS (GRAPHIC ARTS SHOP)
	E-10	POWER PLAN (AUTO SHOP)
	E-11	LIGHTING PLAN (AUTO SHOP)

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — OFFICE OF ARCHITECTURE AND CONSTRUCTION
25153 APPROVED: DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION APPROVED:
DATE
ARCHITECTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAH E. SHEFFMER
ARCHITECTURAL ENGINEER
9300 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
REG. NO. S.E. 7579

GARRETT ENGINEERS
CIVIL & STRUCTURAL ENGINEERS
[illegible] STREET • LOS ANGELES 57, CALIF.

STEPHEN T. BERRY
STRUCTURAL ENGINEER
[illegible] LOS ANGELES 13, CALIF.

G. HIRSCHMAN & ASSOCIATES
MECHANICAL • ELECTRICAL ENGINEERS
[illegible] LOS ANGELES 36, CALIF.

APPROVED
DATE DEC. 1964
APPROVED
DATE
REVISIONS

SHEET TITLE: SITE PLAN & SHEET INDEX

NORTH HOLLYWOOD HIGH SCHOOL
[illegible] AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
OF LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9300 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE F-60'
DRAWN BY MS
CHECKED BY
SHEET NO. A1 OF 36 SHEETS

1/64 SHEETS SET

PROPERTY LINE

BICYCLES

NEW 2-8'-0" WIDE C.L.L. GATES INSTALL @ BEGINNING OF CONTRACT

EXISTING 6'-0" C.L.F.

PARKING AREA (A.C. PAVING)

NEW 8'-0" C.L.F INSTALLED AT BEGINNING OF CONTRACT & USED AS BARRICADE

BARRICADE FENCE

AREA TO CONTRACTOR FOR MATERIAL STORAGE CONTRACTOR TO PROVIDE GATE & LOCK

INSERT: EXISTING 2-10'-0" SLIDING GATE: REMOVE WOOD FENCE

NEW 16'-0" WIDE SLIDING GATE (A/A35)

NEW 6'-0" C.L.F.

NEW 6" CONC. PAVING

51'-0" 82'-0" 25'-0" 90'-0"

EXISTING C.L. FENCE

EXISTING 1" WIDE C.J.D. JOINT

NEW 2-10'-0" WIDE C.L. GATES

PLANTING AREA

SOCIAL ARTS BUILDING

CLARIFIER PIT

COMPRESS HOUSING

ROOF VENTILATOR

AUTO SHOP

NEW MANHOLE

APPLE STORAGE

BARRICADE FENCE

EXISTING STEAM PIPE TUNNEL

NEW CONC. PORCH

NEW 21-SS26

METAL SHOP

GOLF STOR.

DRY STOR.

FAN

A.C. PAVING

BOYS TOILET

GIRLS TOILET

NEW DRAFTING ROOM

ADULT STORAGE

STUDENT STOR.

DRY STOR.

GRAPHIC ARTS SHOP

EXISTING 3'-0" HIGH WALL & 2'-0" C.L.F. TO BE REMOVED

EXISTING WOOD SHOP

BLUEPRINT

NEW DRAFTING ROOM

EXISTING GREASE PIT

ELECTRIC SHOP

REMODELED SHOP BUILDING

APPT STOR.

DRY STOR.

TEST ROOM

AMAT RADIO

IN-LINE

REPLACE WIDE C.L. FENCE: PORTION @ GATE TO BE REUSED

EXISTING SEPTIC TANK TO BE REMOVED COMPACT SOIL TO REQUIRED HEIGHT & STRENGTH FOR NEW A.C. PAVING

ATHLETIC FIELD

A.C. PAVING

BARRICADE TO BE SET @ JOB LOCATION SET WITH SCHOOL AUTHORITIES

EXISTING GRAPHIC ARTS SHOP TOILET FACILITIES TO BE DEMOLISHED

DOTTED LINES INDICATE POSITION OF ARCADE TO BE REMOVED

NEW CONC. WALL

EXISTING CONCRETE YARD & GREASE PIT TO BE REMOVED. COMPACT TO REQUIRED HEIGHT FOR NEW A.C. PAVING

A.C. PAVING

BARRICADE FENCE

M-449

A.C. PAVING

CLASS ROOM BUILDING

ARCADE

AUDITORIUM & GYMNASIUM BUILDING

PARTIAL SITE PLAN

1" = 20'-0"

N

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — DIVISION OF ARCHITECTURE AND CONSTRUCTION

25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAN F. SHEFFNER
STRUCTURAL ENGINEER
6464 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
PHONE NO. SE 795

CARTETT ENGINEERS
CIVIL & ELECTRICAL ENG.
3731 S. 7TH STREET • LOS ANGELES 37, CALIF.
PHONE NO. DI 5-3199

STEPHEN T. BEINY
MECHANICAL ENGINEER
1133 SPRING ST. • LOS ANGELES 13, CALIF.
PHONE NO. MA 8-1980

O. SILVERMAN & ASSOCIATES
SOILS ENGINEERS
[illegible] LOS ANGELES 16, CA

ARCHITECT
DATE DEC. 19 '64
APPROVED
DATE
REVISIONS

SHEET TITLE: PARTIAL SITE PLAN

JOB NO. 6101
SCALE 1"=20'
DRAWN BY M.S.
CHECKED BY

NORTH HOLLYWOOD HIGH SCHOOL
[illegible] NORTH HOLLYWOOD, CALIFORNIA
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
8908 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

SHEET NO. A2 OF 36 SHEETS

8786.24

8033.24

BOYS
PHYSICAL EDUCATION
BUILDING
(EXISTING)

REMOVE EXISTING PARKING BUMPERS

REMOVE EXISTING C.L. FENCES & GATE

NEW SHOP BUILDING

SOCIAL ARTS BUILDING

DEMOLISH EXISTING BUNGALOW

M-71

EXISTING C.L.F. TO REMAIN

NEW SHOP BUILDING

REMOVE EXISTING C.L. FENCES & GATES

REMOVE EXISTING INCINERATOR & CHIMNEY ABOVE PARAPET

REMODELED SHOP BUILDING

REMOVE CONC. WALL

REMOVE RAILING

REMOVE CONC. SLAB

REMOVE CONCRETE CRAWL PIT FILL & COMPACT SOIL

REMOVE SEPTIC TANK, FILL & COMPACT SOIL

EXISTING GRAPHIC ARTS, SHOP & BOYS TOILET TO BE REMOVED

REMOVE EXISTING C.L.F. & WALL

REMOVE ARCADE ROOF TO THIS LINE

DOTTED LINES INDICATE PORTION OF ARCADE TO BE REMOVED

CLASS ROOM BUILDING

ARCADE TO REMAIN

AUDITORIUM & GYMNASIUM BUILDING

N

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
OFFICE OF ARCHITECTURE AND CONSTRUCTION
25153 APPROVED DEC 29 1964

NOTES:
1. REMOVE PAVING AND ALL OTHER OBSTRUCTIONS AS REQUIRED TO COMPLETE WORK.
2. PATCH ALL DAMAGED PAVING THAT REMAINS TO MATCH EXISTING PAVING.

SITE REMOVAL PLAN

1"=30'-0"

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAH Z. SHEELMER
A.I.A. PLANNER
9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
WEBSTER 3-1

GARRETT ENGINEERS
CIVIL & STRUCTURAL ENGINEERING
1055 N. VINE ST. LOS ANGELES 38, CALIF.
HOLLYWOOD 4-7

CLEMENT ESENOY
CONSULTING MECHANICAL ENGINEER
1055 N. VINE ST. LOS ANGELES 38, CALIF.
HOLLYWOOD 4-7

G. HUDSON & ASSOCIATES
CONSULTING ELECTRICAL ENGINEERS
1055 N. VINE ST. LOS ANGELES 38, CALIF.
HOLLYWOOD 4-7

Architect
DATE DEC. 19, 64.
APPROVED
DATE
REVISIONS

SHEET TITLE
SITE REMOVAL PLAN

NORTH HOLLYWOOD HIGH SCHOOL
BOARD OF EDUCATION

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE 1"=30'
DRAWN BY M.S.
CHECKED BY
SHEET NO. A 3
OF 36 SHEETS

8786.24

OMIT

METAL SHOP EQUIPMENT LEGEND (N.I.C.)				GRAPHIC ARTS SHOP EQUIPMENT LEGEND (N.I.C.)			
DISPOSITION	ITEM	DESCRIPTION	AMT.	DISPOSITION	ITEM	DESCRIPTION	AMT.
C	1	ANVIL & STAND	4	A	1	CABINET, TYPE	4
C	2	BENCH, METAL WORKING (3'-6"x7'-0)	4	A	2	CUTTER, PAPER	1
C	3	BENCH, TEACHERS, DEMO.	1	B	3	DRILL, PAPER	1
C	4	BENDING MACHINE	1	A	4	PRESS, JOB 10"x15"	1
C	5	BRAKE, BOX & PAN	1	C	5	PRESS, HANDLEVER	1
A	6	BUFFER, EXTENDED END SHELLS	1	D	6	RACK, DRYING	1
C	7	CABINET, STORAGE	2	C	7	CABINET, HANDPRESS	1
C	8	CHAIR, TABLET ARM	25	A	8	STITCHER	1
C	9	CHAIR, 18"	2	C	9	CHAIR, TABLET ARM	25
C	10	DESK, TEACHER	1	A	10	TABLE, IMPOSING	1
C	11	DESK, DRAFTING	1	A	11	PRESS, JOB 12"x18"	1
A	13	DRILL, PRESS ½"	1	A	12	PRESS, PROOF	1
A	14	DRILL, PRESS 1"	1	D	13	DESK, TEACHERS	1
C	15	FILING CABINET	1	A	14	TABLE, MAKE-UP	1
C	16	FOLDER BAR	1	C	15	TABLE, WORK 28"x70"	2
C	17	FORMER, SLIP FORM	1	C	16	TABLE 20"x34"	2
A	18	FURNACE, FORGE	1	D	18	CABINET, GALLEY STORAGE	1
A	19	FURNACE, POT & CRUCIBLE	1	C	19	CHAIR, 18"	1
A	20	FURNACE, SOLDERING	2	D	20	CABINET, FILING	1
A	21	GRINDER, 6"	1	A	21	PRESS, VERTICAL & ROLLER RACK	1
A	22	GRINDER, 10"	1	C	22	RUBBER STAMP MACHINE	1
B	23	SURFACE GRINDER	1	C	23	CABINET, PAINT STOR. 24"x18"	1
A	24	LATHE, 15"	2	C	25	TABLE, LINO	1
B	24	LATHE, 13"	2	C	26	CHAIR, COMPOSING MACHINE	2
B	25	MILLING MACHINE	1	A	27	FURNACE, REMELT	1
C	26	PLATE, STAKE & STAND	1	A	28	MACHINE, COMPOSING	2
B	27	SAW, HACK	1	D	29	PLATE, EXPOSURE UNIT	1
B	28	SHAPER, 6"	1	B	30	PRESS, OFFSET DUPLICATOR	1
C	29	SHEARS, SQUARING	1	A	31	SAW, COMPOSING ROOM	1
C	30	TABLE, ARC WELDING	1	C	32	TABLE, STRIPPING	2
C	31	TABLE, WELDING	2	A	33	PRESS, JOB 8"x12"	1
C	32	TRUCK, CYLINDER	2	A	34	PRESS, FLATBED & ROLLER RACK	1
A	33	WELDER, ARC	1	B	35	CABINET TYPE	1
A	34	WELDER, SPOT	1				
C	35	CABINET, PAINT STORAGE	1				
B	37	CONTROL PANEL FOR FURNACE	1				
C	38	CABINET, MACHINIST PORTABLE	6				
C	39	MACHINE, BENCH	1				
C	40	SHEARS, BENCH	1				
C	41	PRESS, ARBOR	1				
C	42	MOLDING TABLE	1				
C	44	LOCKERS, 15"x 15"x 18" (N.I.C.)	96				

ELECTRIC SHOP			
B	1	LATHE, 10"	1
A	2	GRINDER, 6"	1
A	3	DRILL PRESS	1
C	4	BRAKE, BOX & PAN	1
B	5	BUFFER, 6"	1
C	6	CHAIR, TABLET ARM	25
B	7	FURNACE, SOLDERING	1
B	8	BENCH, TEST	8
C	9	TABLE, PAINT 2'-0"x 3'-0"	1
C	11	CABINET, STORAGE PAINT	1
C	12	SHEARS, SQUARING	1
C	13	BENCH, TEACHERS DEMO.	1
C	14	DESK, TEACHERS	1
C	15	CHAIR, 18"	2
C	16	FILING CABINET	1
C	17	LOCKERS, 12"x 15"x 18"	44
A	18	DRILL PRESS	1

DISPOSITION

A. CONTRACTOR TO MOVE, STORE, RELOCATE & INSTALL EQUIPMENT.

B. ITEMS TO BE DELIVERED BY THE DISTRICT & INSTALLED BY THE GEN'L CONTRACTOR.

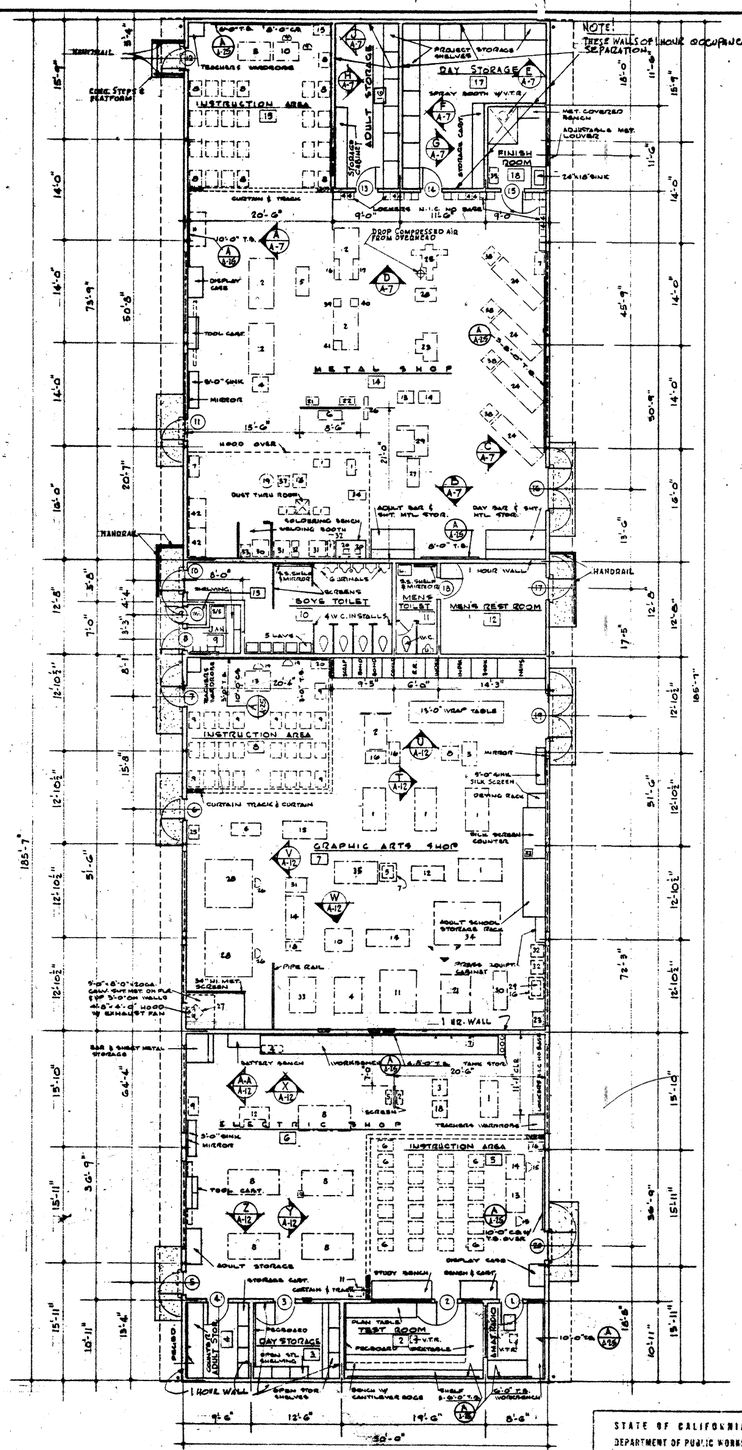
C. ITEMS TO BE DELIVERED & INSTALLED BY THE DISTRICT.

D. ITEMS TO BE STORED & REINSTALLED BY THE DISTRICT.

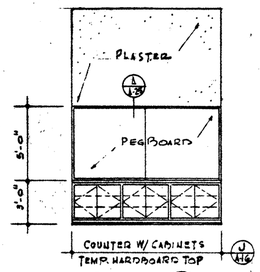
E. DISTRICT TO PICK UP PRIOR TO START OF ALTERATION WORK, OR MOVE TO NEW SHOP UPON COMPLETION OF THAT PHASE OF WORK.

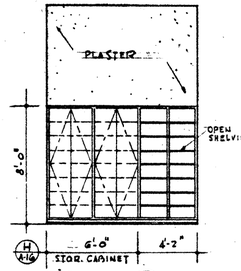
F. CONTRACTOR TO DISCONNECT & REMOVE FROM SITE

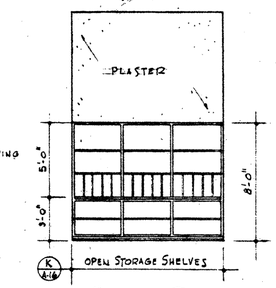
NOTE!
WALLS INDICATED THUS ▭ ARE 1 HOUR SEPARATION WOOD STUDS, 7/8" PLASTER BOTH SIDES

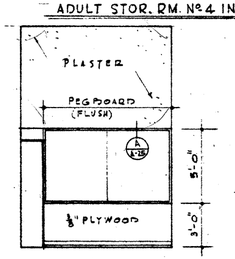


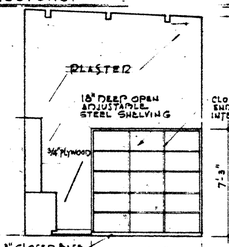
FLOOR PLAN
1/8" = 1'-0"

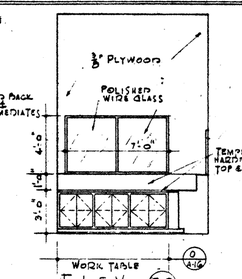


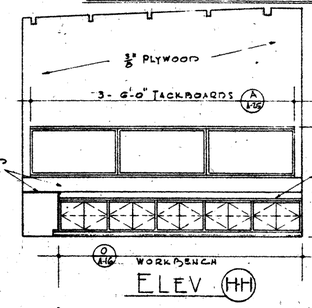


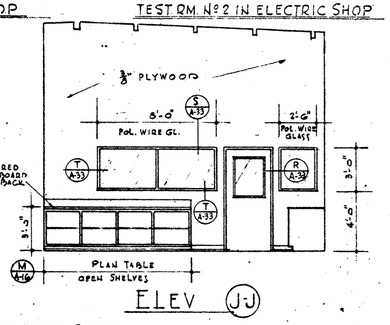




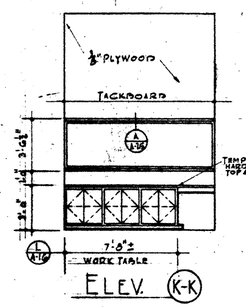


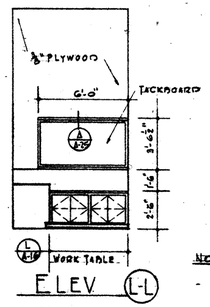






TEST RM. Nº 2 IN ELEC. SHOP





AMATEUR RADIO RM. Nº 1 IN ELEC. SHOP

NOTE! INTERIOR ELEVATIONS DRAWN TO ½" SCALE

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — DIVISION OF ARCHITECTURE AND CONSTRUCTION
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPROVED ____ DATE ____
APPLICATION NUMBER ____
BY DIVISION OF ARCHITECTURE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DEC 29 1964
BY

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9454 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
RESIDENCE 90 210

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2029 W. 7TH ST. • LOS ANGELES 57, CALIF.
REPUBLIC 7-5699

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
326 S. SPRING ST. • LOS ANGELES 13, CALIF.
REPUBLIC 3-6871

G. SHUFFMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS AND SOILS ENGINEERS
9000 SUNSET BLVD. • LOS ANGELES 69, CALIF.

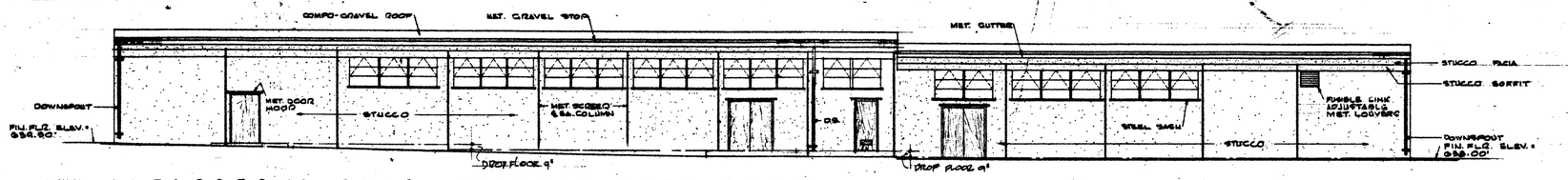
DATE DEC. 18/64
APPROVED
DATE
REVISIONS

SHEET TITLE
FLOOR PLAN, EQUIPMENT SCHEDULE & INTERIOR ELEVATIONS
NEW SHOP BUILDING
NORTH HOLLYWOOD HIGH SCHOOL
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9908 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

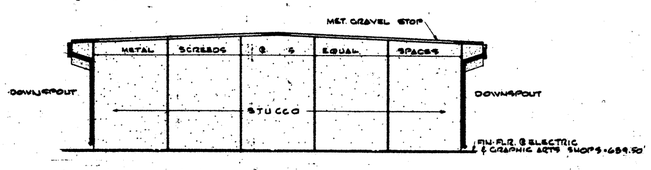
JOB NO. 6101
SCALE AS NOTED
DRAWN BY MS
CHECKED BY
SHEET NO. A4 OF 36 SHEETS

8786 124



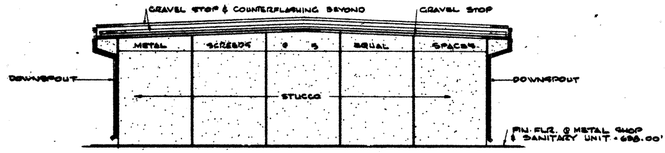
NORTH ELEVATION

1/8" = 1'-0"



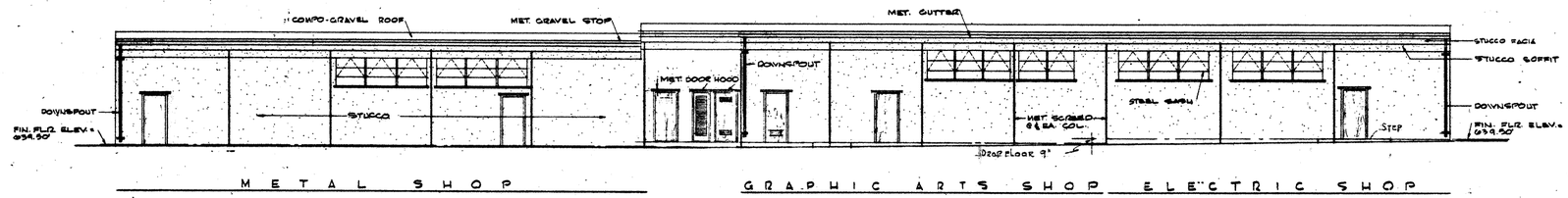
WEST ELEVATION

1/8" = 1'-0"



EAST ELEVATION

1/8" = 1'-0"



SOUTH ELEVATION

1/8" = 1'-0"

Notes!

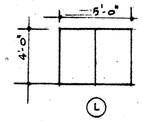
A. OMIT DADO WHEN CEILING IS LESS THAN 9'-0" HIGH & EXTEND PAINT TO CEILING.
B. IN TOILETS & REST ROOM WHERE CEILINGS ARE LESS THAN 9'-0" ACOUSTIC TILE TO HAVE PLASTER OR GYP. BD. BACKING.
C. PAINT EXPOSED BEAMS & GIRDERS ONLY.
D. SEE SPECIFICATIONS CONCERNING GYPSUM BOARD UNDER PLYWOOD LINING.
E. WALLS SHOWN AS EXPOSED CONCRETE SHALL NOT BE PLASTERED.

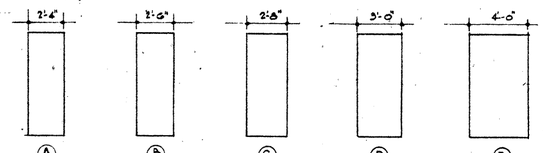
FINISH SCHEDULE

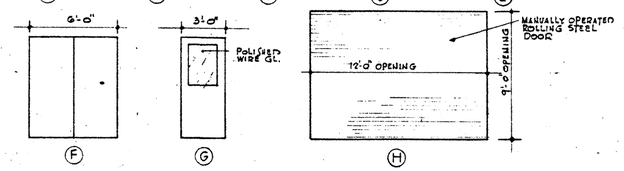
	No.	ROOM	FLOOR: CEMENT	FLOOR: CERAMIC TILE	FLOOR: CORK	FLOOR: VINYL ASBESTOS	BASE: CEMENT	BASE: CERAMIC TILE	BASE: WOOD	BASE: SHOE MOLD	BASE: VINYL ASBESTOS	TRIM: DOUGLAS FIR	TRIM: METAL	WALLS: ½" PLYWOOD	WALLS: ¾" PLYWOOD	WALLS: PLASTER	WALLS: ACOUSTIC TILE	CEILING: PLASTER	CEILING: EXPOSED CONST.	CEILING: ACOUSTIC TILE	CEILING: HEIGHT	PAINTING: WALLS	PAINTING: CEILING	PAINTING: WOODWORK	PAINTING: DADO	PAINTING: DADO HEIGHT	REMARKS
ELECTRIC SHOP	1	AMATEUR RADIO			●				●	●		●			●				●			9'		3			
	2	TEST ROOM			●				●	●		●			●				●			9'		3			
	3	DAY STORAGE			●				●	●		●			●				●			9'		3			
	4	ADULT STORAGE			●				●	●		●			●				●			9'		3			
	5	INSTRUCTION AREA			●				●	●		●		●	●				●			1	▲	3	6	7'-0	▲ SEE NOTE "C"
	6	ELECTRIC SHOP			●				●	●		●		●	●				●			1	▲	3	6	7'-0	▲ SEE NOTE "C"
GRAPHIC ARTS	7	GRAPHIC ARTS SHOP	●						●	●		●		●	●				●			1	▲	3	6	7'-0	▲ SEE NOTE "C"
	8	INSTRUCTION AREA	●						●	●		●		●	●				●			1	▲	3	6	7'-0	▲ SEE NOTE "C"
SANITATION UNIT	9	JANITOR	●				●					●				S.F.		S.F.				1	1	5	5	7'-0	
	10	BOYS TOILET		●				●				●				S.F.			G.B.			5		5			TILE WAINSCOT 5'-8½" HIGH
	11	MENS TOILET		●				●				●				S.F.			G.B.			5		6			TILE WAINSCOT 5'-8½" HIGH
	12	MENS REST ROOM			●						●	●				S.F.			G.B.			1		3	3	7'-0	
	13	WATER HEATER CLOS	●						●	●		●				S.F.		S.F.				1	1	5			
METAL SHOP	14	METAL SHOP	●						●	●		●							●			1	▲	3	6	7'-0	▲ SEE NOTE "C"
	15	INSTRUCTION AREA	●						●	●		●		●	●				●			1	▲	3	6	7'-0	▲ SEE NOTE "C"
	16	ADULT STORAGE	●						●	●		●			●				●			6	1	3			WHERE CABINETS ARE BACK TO BACK ⅜" PLYWOOD UP TO 7'-0"
	17	DAY STORAGE	●						●	●		●			●				●			6	1	3			
	18	FINISH ROOM	●						●	●		●				S.F.			●			1	1	3	6	7'-0	

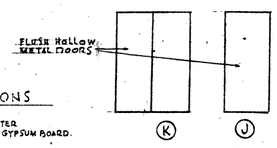
PAINTING LEGEND

1. WALL PAINT
2. WALL PAINT STIPPLED
3. ENAMEL EGGSHELL
4. ENAMEL EGGSHELL STIPPLED
5. ENAMEL GLOSS
6. RESIN STAIN









ABBREVIATIONS

S.F. SAND FINISH PLASTER
G.B. ACOUSTIC TILE ON GYPSUM BOARD.

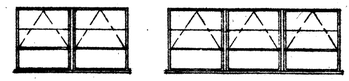
NOTES!

1. ALL GLASS IN DOORS TO BE ¼" CLEAR WIRE GLASS.
2. ALL LOUVERS IN DOORS TO BE METAL.
3. ALL WOOD DOORS TO BE 1¾" SOLID CORE UNLESS OTHERWISE NOTED.

DOOR TYPES

WINDOW SCHEDULE

TYPE	SIZE	MATERIAL	REMARKS
A	7'-7⅞" x 4'-1"	STEEL	
B	11'-8⅝" x 4'-1"	STEEL	



NOTE!

ALL CLERESTORY WINDOWS TO BE PROJECT-OUT STEEL SASH WITH DSB GLASS. ALUMINUM SUN SCREENS ALL SOUTH WINDOWS.

NOTE!

WINDOWS PROVIDED WITH SUN SCREENS TO OPEN IN.

DOOR SCHEDULE

TYPE	No.	SIZE: WIDTH	SIZE: HEIGHT	SIZE: THICK.	DETAILS: JAMB	DETAILS: HEAD	DETAILS: SILL	THRESHOLD	LOUVER SIZE	REMARKS
G	1	3'-0"	7'-0"	1¾"	⊕	⊕			8"x18"	LOUVER AT BOTTOM
G	2	3'-0"	7'-0"	1¾"	⊕	⊕			8"x18"	LOUVER AT BOTTOM
J	3	3'-0"	7'-0"	1¾"	⊕	⊕				CLASS "C" LABELLED
J	4	3'-0"	7'-0"	1¾"	⊕	⊕				CLASS "C" LABELLED
D	5	3'-0"	7'-0"	1¾"	⊕	⊕	⊕	STL. CHAN.		
D	6	3'-0"	7'-0"	1¾"				STL. CHAN.		
D	7	3'-0"	7'-0"	1¾"				STL. CHAN.		
B	8	2'-6"	7'-0"	1¾"				STL. CHAN.	8"x18"	LOUVER AT BOTTOM
A	9	2'-4"	7'-0"	1¾"				STL. CHAN.	⟶	FULLY LOUVERED
C	10	2'-8"	7'-0"	1¾"				STL. CHAN.	2-8"x18"	LOUVERS AT TOP & BOTTOM
D	11	3'-0"	7'-0"	1¾"				STL. CHAN.		
D	12	3'-0"	7'-0"	1¾"				STL. CHAN.		
J	13	3'-0"	7'-0"	1¾"	⊕	⊕				CLASS "C" LABELLED
J	14	3'-0"	7'-0"	1¾"	⊕	⊕				CLASS "C" LABELLED
J	15	3'-0"	7'-0"	1¾"	⊕	⊕				CLASS "C" LABELLED
F	16	2-3'-0"	7'-0"	1¾"	⊕	⊕	⊕	STL. CHAN.		
D	17	3'-0"	7'-0"	1¾"				STL. CHAN.	8"x18"	LOUVER AT BOTTOM
C	18	2'-8"	7'-0"	1¾"	⊕	⊕		M.D.S.	8"x18"	LOUVER AT BOTTOM
F	19	2-3'-0"	7'-0"	1¾"	⊕	⊕	⊕	STL. CHAN.		
E	20	4'-0"	7'-0"	1¾"	⊕	⊕	⊕	STL. CHAN.		

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
OFFICE OF ARCHITECTURE AND CONSTRUCTION
2STS 3
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPROVED
DATE
SUPERVISOR OF STRUCTURAL ENGINEERING

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9301 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
REG. NO. SE 1595

GARRETT ENGINEERING
CONSULTING ELECTRICAL ENGINEERS
3018 W. 7TH STREET - LOS ANGELES 57, CALIF.
REG. NO. E 5999

STEPHEN T. BERKY
TOWN & TWIN MECHANICAL ENGINEERS
1055 E. COLORADO ST. - PASADENA 1, CALIF.
REG. NO. M 1380

J. SHUIRMAN & ASSOCIATES
CONSULTING ELECTRICAL ENGINEERS
8721 SUNSET BLVD. - LOS ANGELES 69, CALIF.

APPROVED
DATE DEC. 1964
APPROVED
DATE
REVISIONS

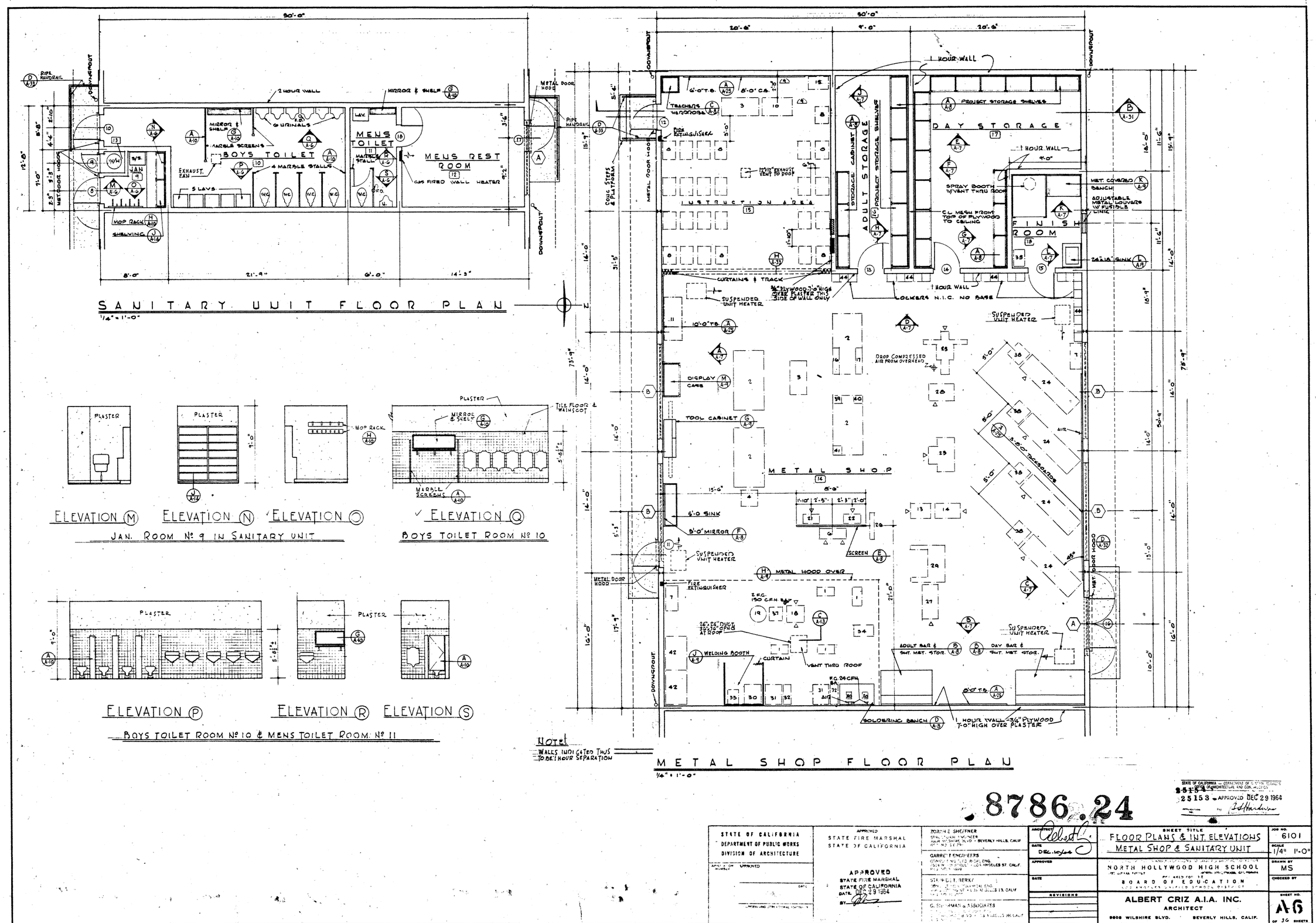
SHEET TITLE
EXTERIOR ELEVATIONS AND SCHEDULES OF NEW SHOP BUILDING

ARCHITECTURAL, ACOUSTICAL AND ALL APPLICATIONS OF ACOUSTICAL MATERIALS SUPERVISED BY
NORTH HOLLYWOOD HIGH SCHOOL
7051 CAMELIA AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES CITY HIGH SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
8808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE 1/8" = 1'-0"
DRAWN BY MS
CHECKED BY
SHEET NO. A5 OF 36 SHEETS

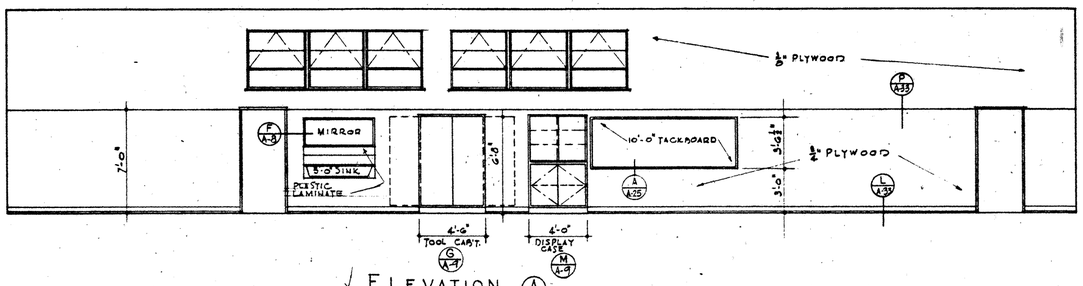
8786.24



8786.24

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE AND CONSTRUCTION
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE DEC 29 1964 BY	ZORAH E. SHEFFNER STRUCTURAL ENGINEER ROOM WILSHIRE BLVD. - BEVERLY HILLS, CALIF. GARRETT ENGINEERS CONSULTING CIVIL & ENGINEERING 7924 WILSHIRE BLVD. LOS ANGELES 57, CALIF. STEPHEN T. BERKY CONSULTING CIVIL & ENGINEERING LOS ANGELES 13, CALIF. G. SHERMAN & ASSOCIATES	ARCHITECT DATE DEC. 10/64 APPROVED DATE REVISIONS	SHEET TITLE FLOOR PLANS & INT. ELEVATIONS METAL SHOP & SANITARY UNIT NORTH HOLLYWOOD HIGH SCHOOL BOARD OF EDUCATION ALBERT CRIZ A.I.A. INC. ARCHITECT 9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.	JOB NO. 6101 SCALE 1/4" 1'-0" DRAWN BY MS CHECKED BY SHEET NO. A6 OF 36 SHEETS



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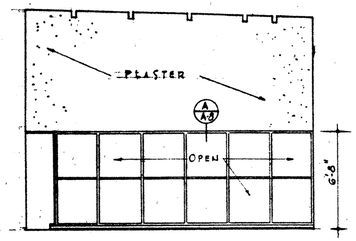
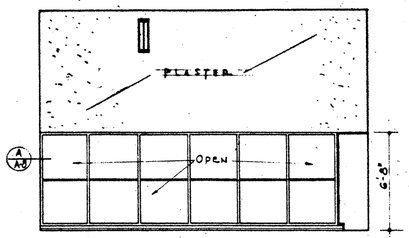
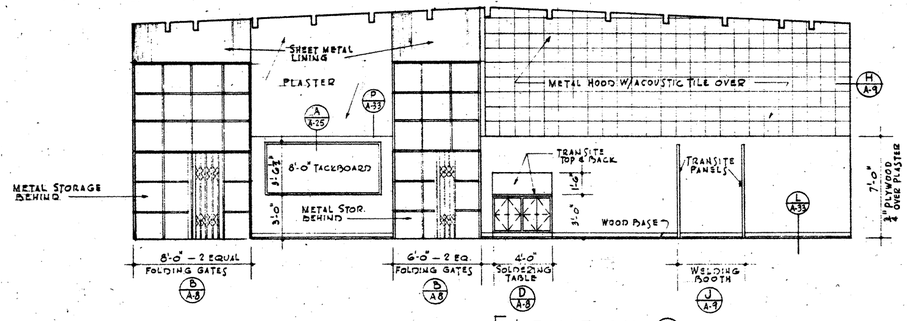


ELEVATION (E)

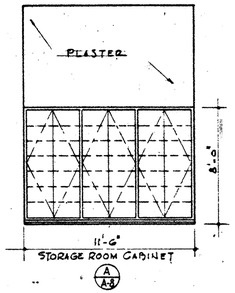


ELEVATION (F)

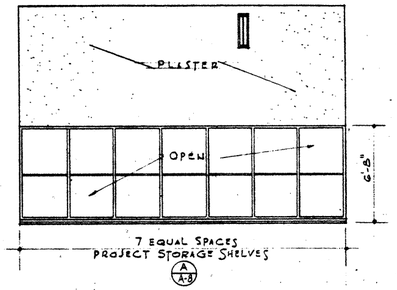
DAY STORAGE RM. Nº 16 IN METAL SHOP



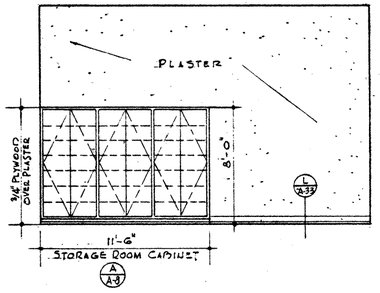
ELEVATION (B)



ELEVATION (G)

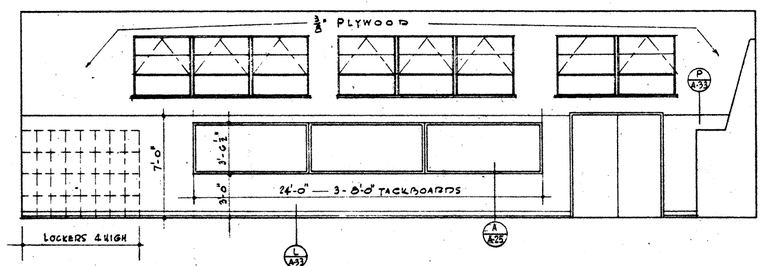


ELEVATION (H)

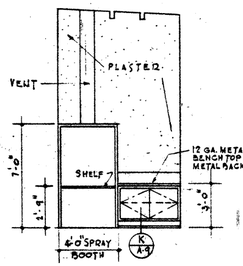


ELEVATION (J)

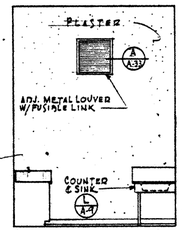
ADULT STORAGE ROOM Nº 15 IN METAL SHOP



ELEVATION (C)

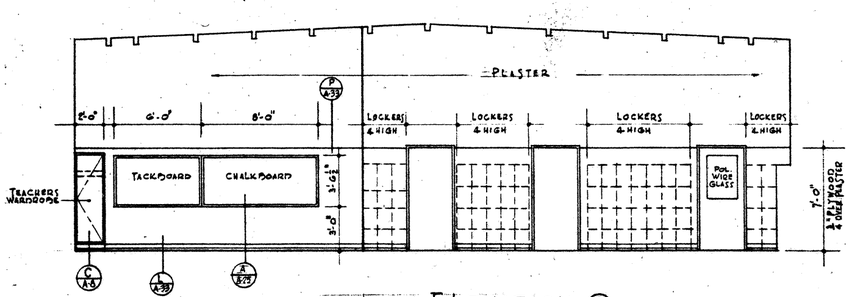


ELEVATION (K)



ELEVATION (L)

FINISH ROOM Nº 17 IN METAL SHOP



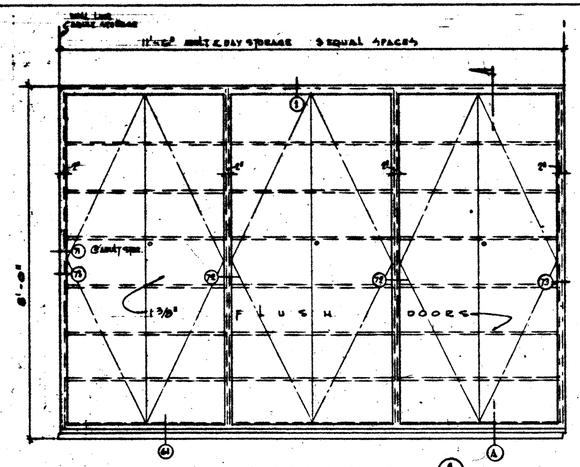
ELEVATION (D)

8786.24

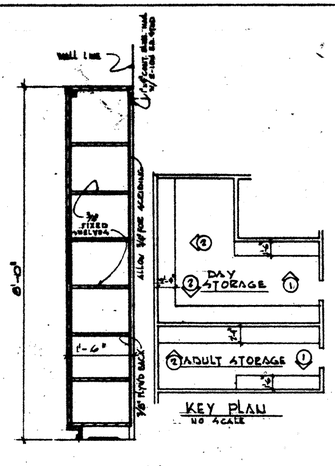
STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — OFFICE OF ARCHITECTURE AND CONSTRUCTION
~~3515~~ 25153 APPROVED DEC 29 1964
by J.H. Hardison

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE APPLICATION NUMBER APPROVED DATE SUPERVISING STRUCTURAL ENGINEER	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE DEC 29 1964 BY DATE	ZORAH E. SHEFFNER STRUCTURAL ENGINEER 5900 WILSHIRE BLVD. • BEVERLY HILLS, CALIF. REG. NO. S.E. 795 GARRETT ENGINEERS CONSULTING ELECTRICAL ENG. 2614 W. 7th STREET • LOS ANGELES 57, CALIF. REG. NO. E 5699 STEPHEN T. BERKY CONSULTING MECHANICAL ENG. 166 S. SPRING ST. • LOS ANGELES 13, CALIF. REG. NO. M 13602 G. SHUPMAN & ASSOCIATES CONSULTING CIVIL ENGINEERS 5670 WILSHIRE BLVD. • LOS ANGELES 36, CALIF. REG. NO. C 13683	DATE Dec. 1964 APPROVED DATE REVISIONS	SHEET TITLE INTERIOR ELEVATIONS METAL SHOP ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA PREPARED FOR THE BOARD OF EDUCATION LOS ANGELES UNIFIED SCHOOL DISTRICT ALBERT CRIZ A.I.A. INC. ARCHITECT 5900 WILSHIRE BLVD. BEVERLY HILLS, CALIF.	JOB NO. 6101 SCALE ¼" = 1'-0" DRAWN BY P.A.G. CHECKED BY SHEET NO. A7 OF 36 SHEETS

A7



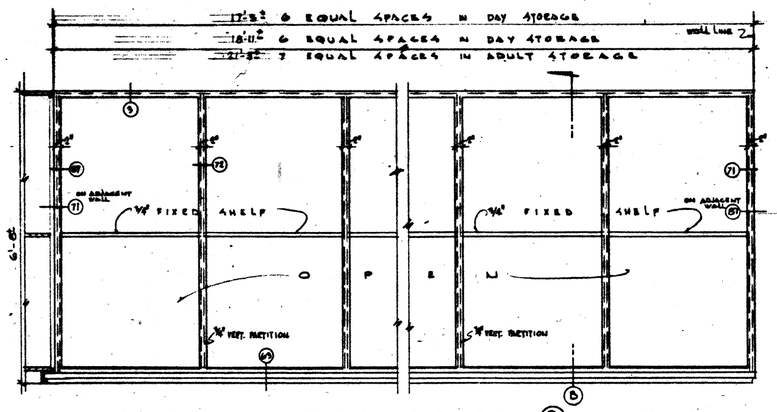
ELEVATION ① SCALE: ¾" = 1'-0"
LOOK ALL DOORS



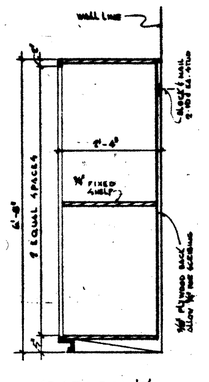
SECTION-'A'

STORAGE ROOM CABINETS

METAL SHOP



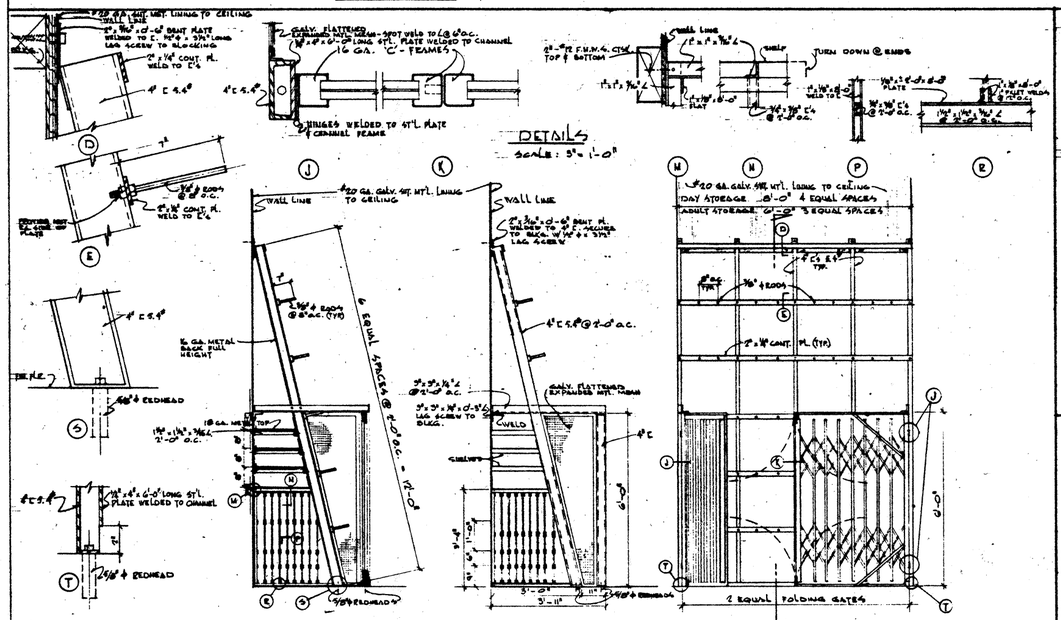
ELEVATION ② SCALE: ¾" = 1'-0"



SECTION-'B'

PROJECT STORAGE SHELVES

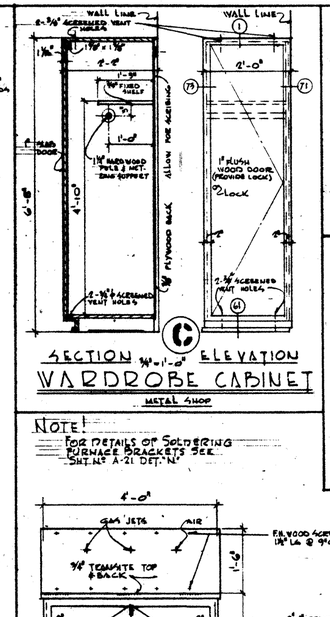
METAL SHOP



NOTE: ENCLOSE FOR OPEN END @ DAY STORAGE
OMIT MESH @ WALL END @ DAY STORAGE

BAR & SHEET METAL STORAGE

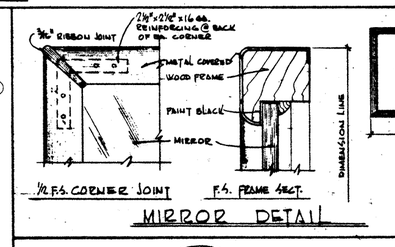
METAL SHOP



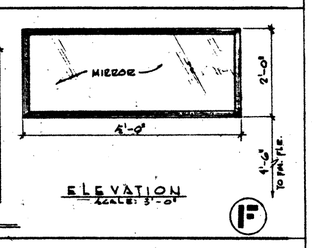
SECTION ¾"=1'-0" ELEVATION

WARDROBE CABINET

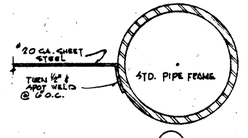
METAL SHOP



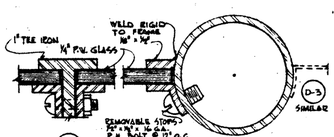
MIRROR DETAIL



ELEVATION SCALE: 3"=1'-0"



SECTION

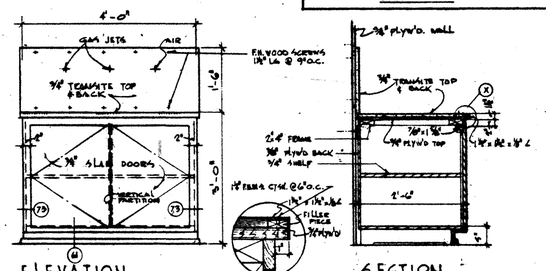


F.S. DETAILS N.T.S.

GLASS SCREEN

METAL SHOP

NOTE
FOR DETAILS OF SOLDERING FURNACE BRACKETS SEE SHT. NO. A-21 DET. 'N'



ELEVATION ¾"=1'-0"
PROVIDE LOCKS FOR DOORS

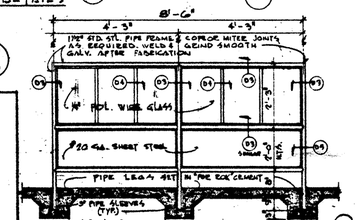
DETAIL ⓧ 3"=1'-0"

SECTION ¾"=1'-0"

SOLDERING BENCH

METAL SHOP

ISSUE-'B' 1968

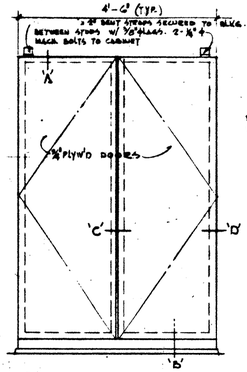


ELEVATION @ BUFFER & GRINDER

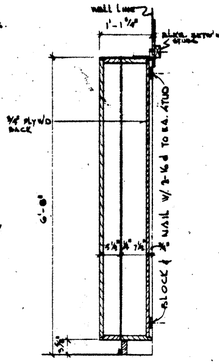
8786.24

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE APPLICATION NUMBER APPROVED DATE SUPERVISING STRUCTURAL ENGINEER	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE DEC 29 1964 BY DATE	ZORAH E. SHEFFNER STRUCTURAL ENGINEER 9908 WILSHIRE BLVD. • BEVERLY HILLS, CALIF. REG. NO. S.E.795 GARRETT ENGINEERS CONSULTING ELECTRICAL ENG. 2614 W. 7th STREET • LOS ANGELES 57, CALIF. REG. NO. E-5699 STEPHEN T. BERKY CONSULTING MECHANICAL ENG. 466 S. SPRING ST. • LOS ANGELES 13, CALIF. REG. NO. M-5880 G. SHURMAN & ASSOCIATES CONSULTING CIVIL ENGINEERS 5657 WILSHIRE BLVD. • LOS ANGELES 36, CALIF. REG. NO. C.E.9663	APPROVED DATE DEC. 1964 ADDENDUM DATE REVISIONS	METAL SHOP INTERIOR DETAILS ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR NORTH HOLLYWOOD HIGH SCHOOL 5005 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA PREPARED FOR THE BOARD OF EDUCATION LOS ANGELES UNIFIED SCHOOL DISTRICT ALBERT CRIZ A.I.A. INC. ARCHITECT 9908 WILSHIRE BLVD. BEVERLY HILLS, CALIF.	JOB NO. 6101 SCALE DRAWN BY CHECKED BY SHEET NO. A 8 OF 36 SHEETS

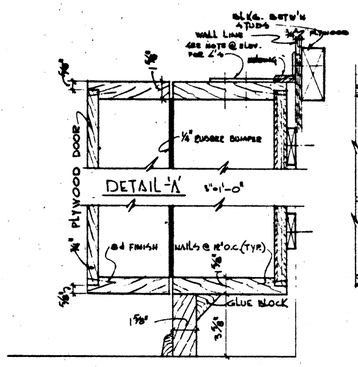
BOARD OF EDUCATION — DEPARTMENT OF SCHOOL SERVICES — DIVISION OF ARCHITECTURE AND CONSTRUCTION
25114
25 FEB 5 APPROVED DEC 29 1964
By



ELEVATION
⅜" = 1'-0"

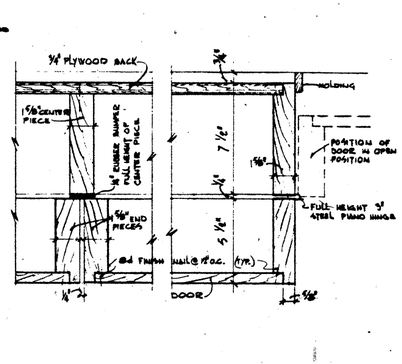


SECTION
⅜" = 1'-0"



DETAIL-'A'

DETAIL-'B'
3"=1'-0"



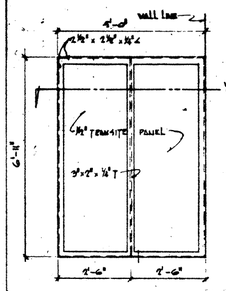
DETAIL-'C'

DETAIL-'D'
3"=1'-0"

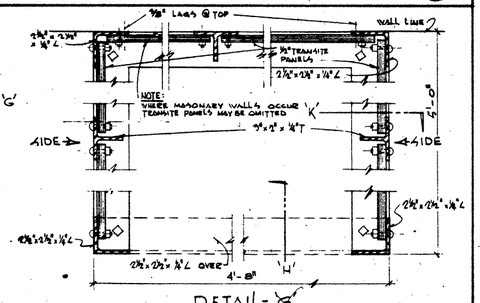
TOOL CABINET

METAL SHOP

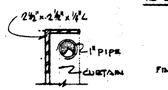
PROVIDE LOCK SEE SPEC'S. (G)



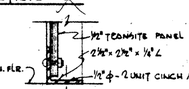
SIDE ELEVATION
¾" = 1'-0"



DETAIL-'G'



DETAIL-'H'



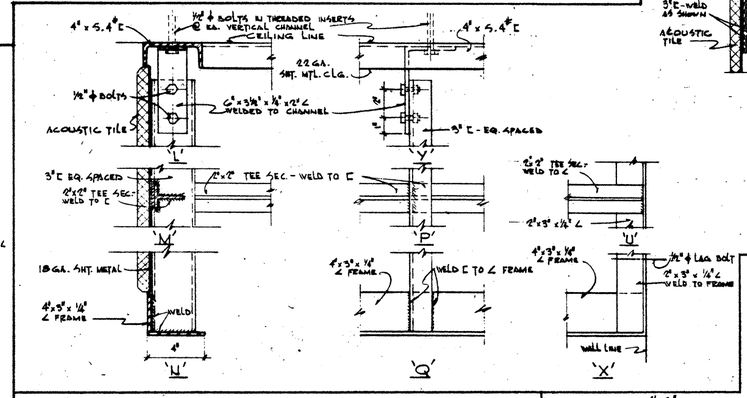
DETAIL-'K'

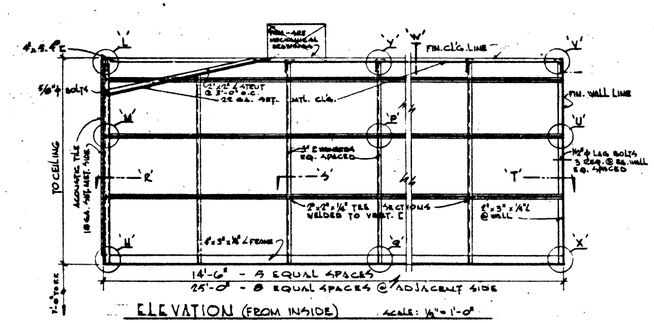
3"=1'-0"

WELDING BOOTH

METAL SHOP

(J)

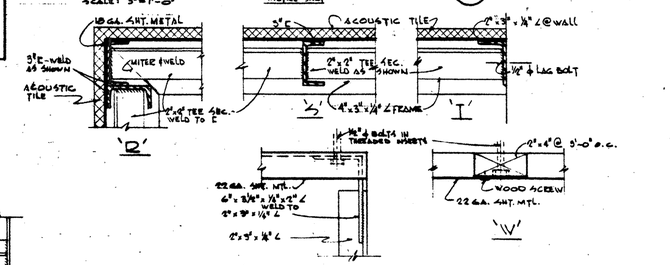


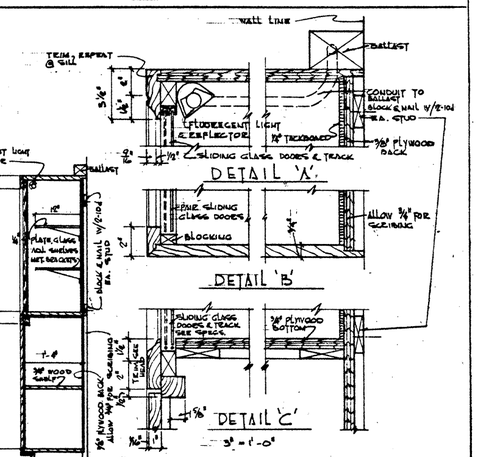


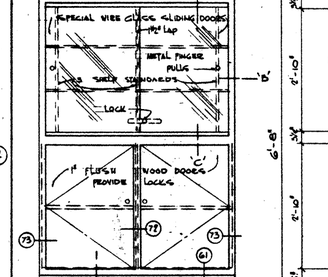
ELEVATION (FROM INSIDE)
SCALE: ½" = 1'-0"

HOOD AT HOT METAL AREA (H)

METAL SHOP
SCALE: 3"=1'-0"







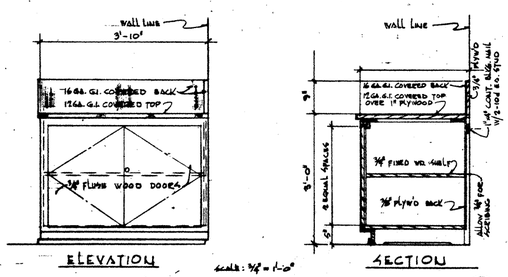
ELEVATION

SECTION

DISPLAY CASE

SCALE: ¾" = 1'-0"

(M)



ELEVATION

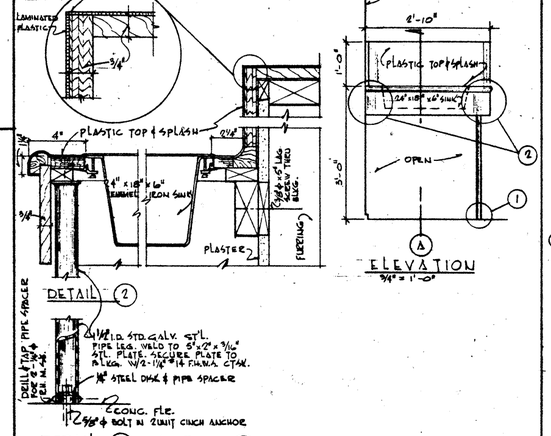
SECTION

SCALE: ¾" = 1'-0"

METAL COVERED BENCH

FINISH ROOM

(K)



COUNTER & SINK @ FINISH ROOM

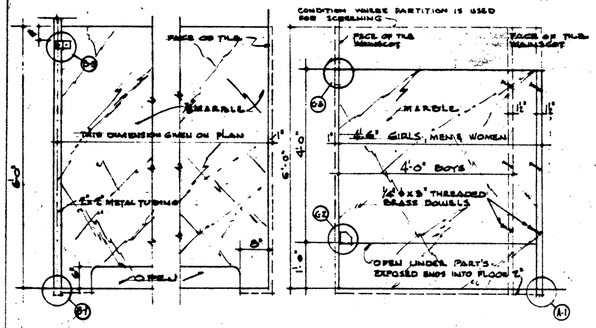
(L)

8786.24

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE APPLICATION NUMBER APPROVED DATE SUPERVISING STRUCTURAL ENGINEER	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE BY DATE	ZORAN E. SHEFFNER STRUCTURAL ENGINEER 9808 WILSHIRE BLVD. • BEVERLY HILLS, CALIF. REG. NO. S.E. 795 GARRETT ENGINEERS CONSULTING ELECTRICAL ENG. 2614 W. 7TH STREET • LOS ANGELES 57, CALIF. REG. NO. E 5089 STEPHEN T. BERKY CONSULTING MECHANICAL ENG. 466 S. SPRING ST. • LOS ANGELES 13, CALIF. REG. NO. M 5880 G. SHUIRMAN & ASSOCIATES CONSULTING CIVIL ENGINEERS 5657 WILSHIRE BLVD. • LOS ANGELES 36, CALIF. REG. NO. C.E. 9683	SUBMITTED DATE DEC. 10 1964 APPROVED DATE APPROVED DATE	SHEET TITLE METAL SHOP INTERIOR DETAILS ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA PREPARED FOR THE BOARD OF EDUCATION LOS ANGELES UNIFIED SCHOOL DISTRICT ALBERT CRIZ A.I.A. INC. ARCHITECT 9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.	JOB NO. 6101 SCALE DRAWN BY CHECKED BY SHEET NO. A 9 OF 56 SHEETS

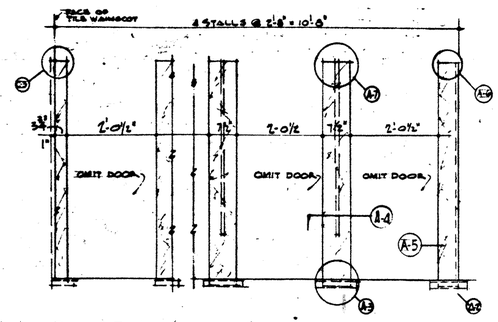
STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — DIVISION OF ARCHITECTURE AND ENGINEERING
APPLICATION NUMBER 29158 APPROVED DEC 29 1964
BY

A-4 MATCH [redacted] 10

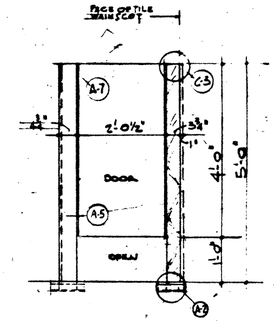


SCREEN PANELS

PARTITIONS



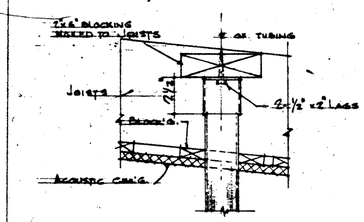
BOYS TOILET (ROOM No 10)



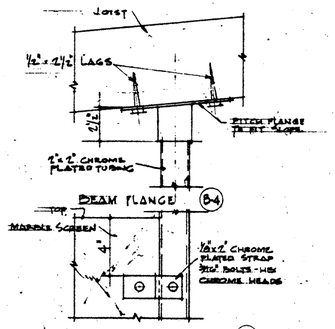
MENS TOILET (ROOM No 11)

MARBLE TOILET STALL ELEVATIONS (F)

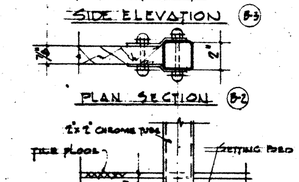
NOTE! VERIFY TYPE OF PART TO BE USED. 3/4" = 1'-0"



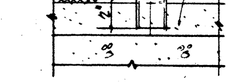
CEILING FLANGE (B-5)



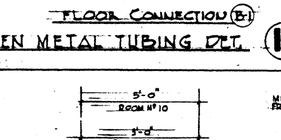
BEAM FLANGE (B-4)



SIDE ELEVATION (B-3)

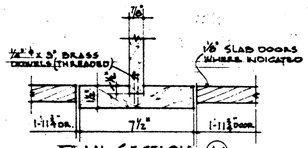


PLAN SECTION (B-2)

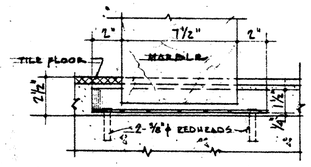


FLOOR CONNECTION (B-1)

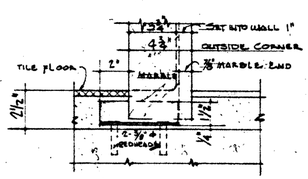
SCREEN METAL TUBING DET. (B)



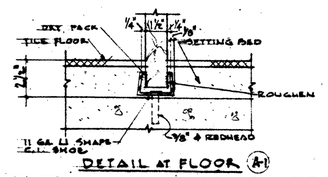
PLAN SECTION (A-4)



DETAIL AT FLOOR (A-3)

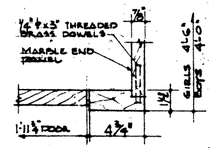


DETAIL AT FLOOR (A-2)

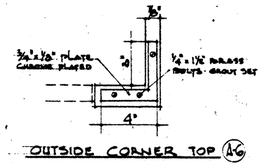


DETAIL AT FLOOR (A-1)

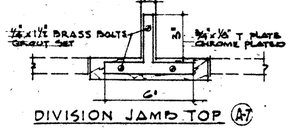
MARBLE JAMB & PANEL CONNECTIONS (A)



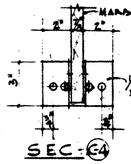
OUTSIDE CORNER (A-5)



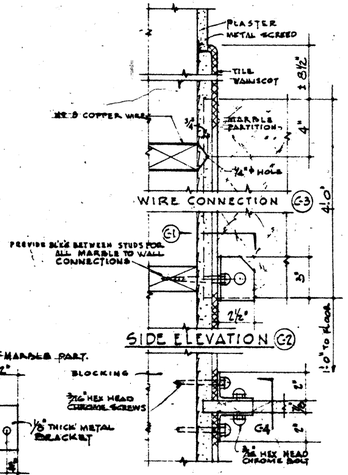
OUTSIDE CORNER TOP (A-6)



DIVISION JAMB TOP (A-7)

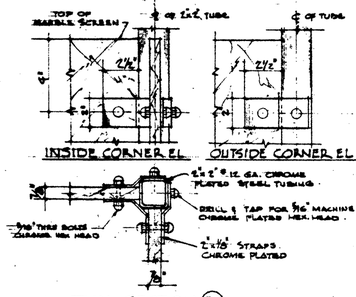


SEC. (C-4)



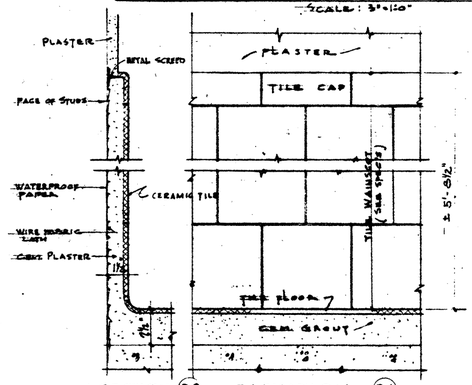
MARBLE CONNECTIONS TO TILE WAINSCOT (C)

OMIT BOTTOM METAL CONNECTION WHERE MARBLE PANELS EXTEND INTO FLOOR. 3"=1'-0"



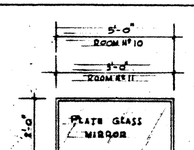
TYP. METAL TUBING AT L-MARBLE SCREENS

SCALE: 3"=1'-0" (E)

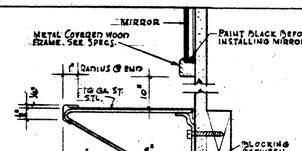


TILE WAINSCOT & FLOOR DETAIL (D)

TYPICAL FOR ALL TILE WAINSCOT & FLOORS 3"=1'-0"

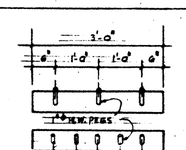


ELEVATION
SCALE ½"=1'-0"

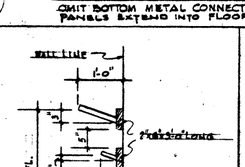


SECTION
SCALE 3"=1'-0"

MIRROR & SHELF DETAIL (G)



ELEVATION
SCALE ¾"=1'-0"



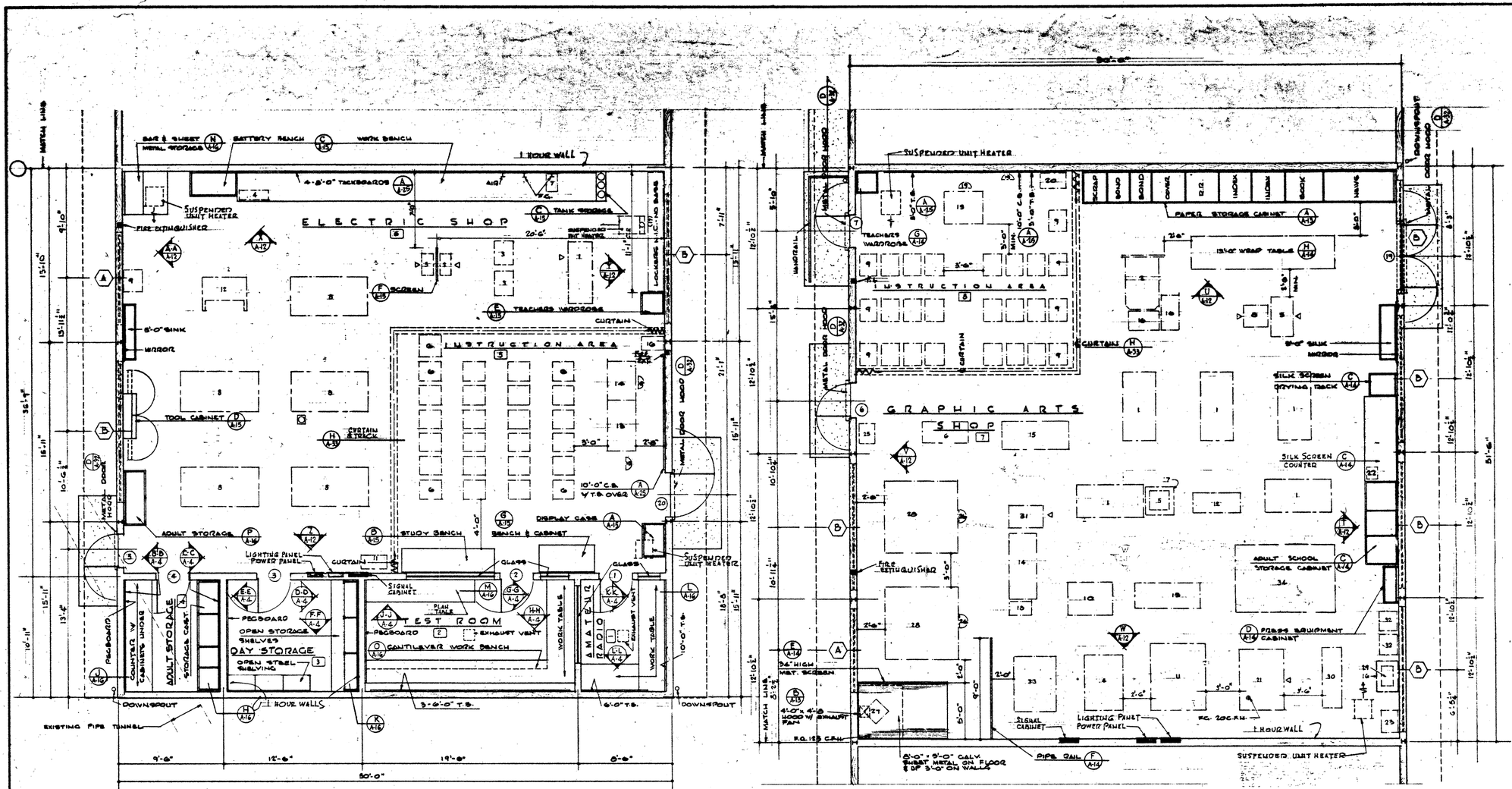
SECTION
SCALE 3"=1'-0"

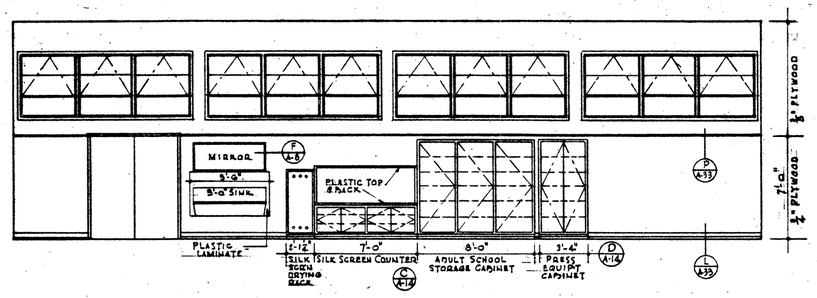
MOP RACK DETAIL (H)

8786.24

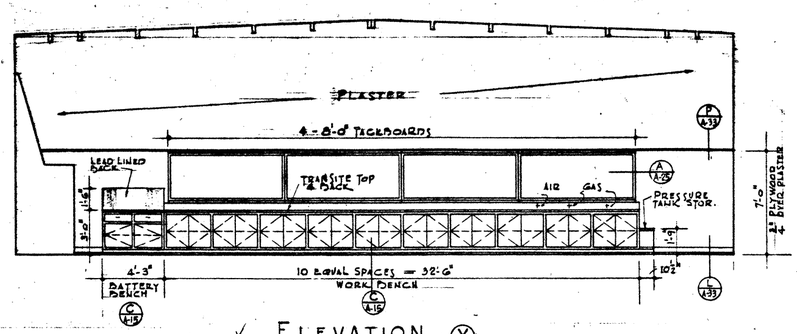
STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — DIVISION OF ARCHITECTURE AND CONSTRUCTION
25 16 25 15 3 APPROVED DEC 29 1964

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE APPLICATION NUMBER APPROVED DATE SUPERVISING STRUCTURAL ENGINEER	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE DEC 29 1964 BY DATE	ZORAN E. SHEFFNER STRUCTURAL ENGINEER 9808 WILSHIRE BLVD. • BEVERLY HILLS, CALIF. REG. NO. S.E. 795 GARRETT ENGINEERS CONSULTING ELECTRICAL ENG. 2614 W. 7th STREET • LOS ANGELES 57, CALIF. REG. NO. E-5889 STEPHEN T. BERRY CONSULTING MECHANICAL ENG. 486 S. SPRING ST. • LOS ANGELES 13, CALIF. REG. NO. M-5889 G. SHUIRMAN & ASSOCIATES CONSULTING CIVIL ENGINEERS 9697 WILSHIRE BLVD. • LOS ANGELES 36, CALIF. REG. NO. C.E. 9683	ARCHITECT DATE DEC. 1964 APPROVED DATE REVISIONS	SANITATION UNIT INTERIOR DETAILS ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR NORTH HOLLYWOOD HIGH SCHOOL 5005 VINELAND AVENUE NORTH HOLLYWOOD, CALIFORNIA PREPARED FOR THE BOARD OF EDUCATION LOS ANGELES UNIFIED SCHOOL DISTRICT ALBERT CRIZ A.I.A. INC. ARCHITECT 9668 WILSHIRE BLVD. BEVERLY HILLS, CALIF.	DSA APP. NO. 6101 SCALE AS NOTED DRAWN BY CHECKED BY SHEET NO A10 OF 36 SHEETS

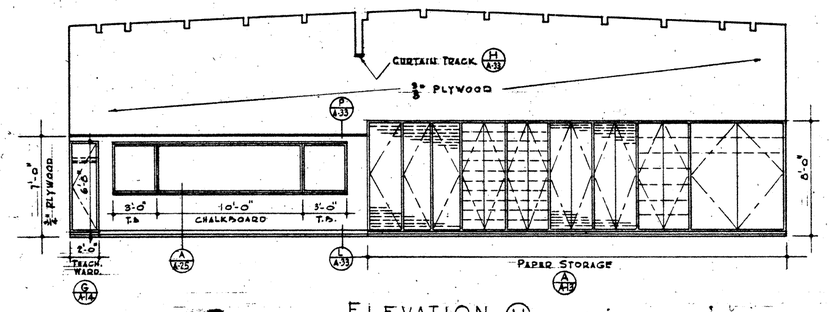

ELECTRIC SHOP
INSTRUCTION AREA
TEST ROOM
DAY STORAGE
ADULT STORAGE
OPEN STORAGE SHELVES
OPEN STEEL SHELVING
AMATEUR RADIO
1 HOUR WALL
1 HOUR WALLS
SUSPENDED UNIT HEATER
FIRE EXTINGUISHER
4'-8"-0" TACKBOARDS
TANK STORAGE
SCREEN
TEACHERS WARDROBE
CURTAIN
5'-0" SINK
MIRROR
TOOL CABINET
CURTAIN TRACK
STUDY BENCH
DISPLAY CASE
BENCH & CABINET
GLASS
LIGHTING PANEL
POWER PANEL
SIGNAL CABINET
PLAN TABLE
EXHAUST VENT
CANTILEVER WORK BENCH
WORK TABLE
COUNTER W/ CABINETS UNDER
PEGBOARD
DOWNSPOUT
EXISTING PIPE TUNNEL
5'-6" T.S.
6'-0" T.S.
9'-0"
12'-6"
19'-0"
6'-0"
50'-0"
GRAPHIC ARTS SHOP
INSTRUCTION AREA
PAPER STORAGE CABINET
15'-0" WRAP TABLE
SILK SCREEN DRYING RACK
SILK SCREEN COUNTER
ADULT SCHOOL STORAGE CABINET
PRESS EQUIPMENT CABINET
FIRE EXTINGUISHER
36" HIGH MET. SCREEN
HOOD W/ EXHAUST FAN
SIGNAL CABINET
LIGHTING PANEL
POWER PANEL
PIPE RAIL
SUSPENDED UNIT HEATER
METAL DOOR HOOD
METAL DOOR
METAL LINE
HANDRAIL
CURTAIN
SCRAP
SAND
SAND
CANVAS
O.D.
IRON
IRON
BOOK
WAVE
SCREENPORT DOOR HOOD
SILK SCREEN
MIRROR
5'-6"
12'-10½"
12'-0"
12'-10½"
5'-6"
12'-10½"
6'-5½"
12'-10½"
6'-5½"
12'-10½"
6'-5½



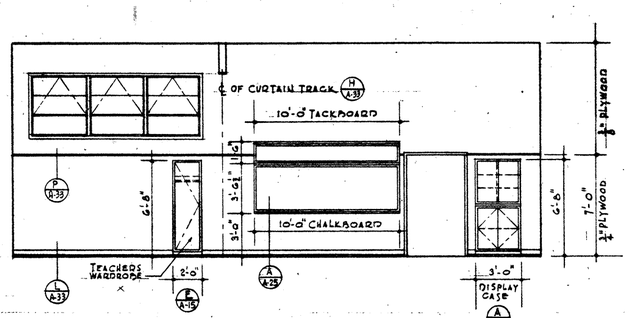
ELEVATION (T)



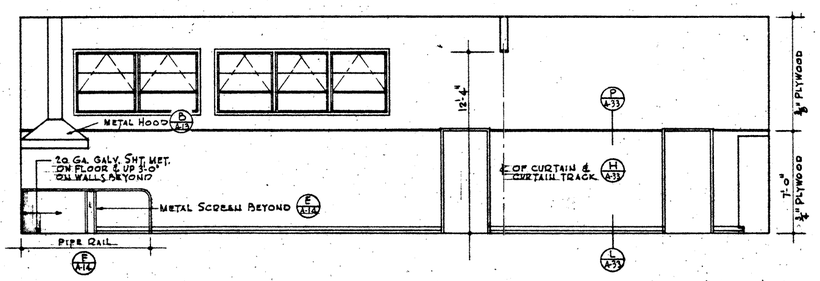
✓ ELEVATION (X)



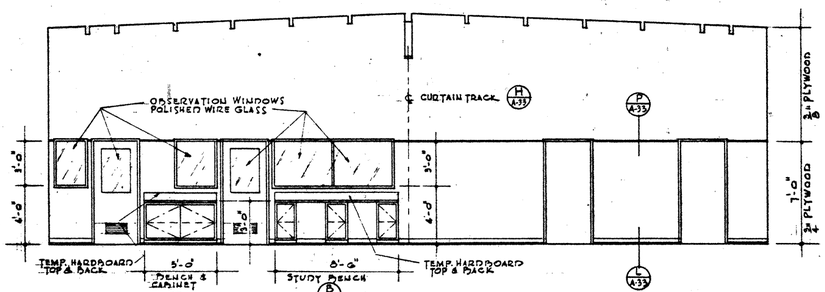
ELEVATION (U)



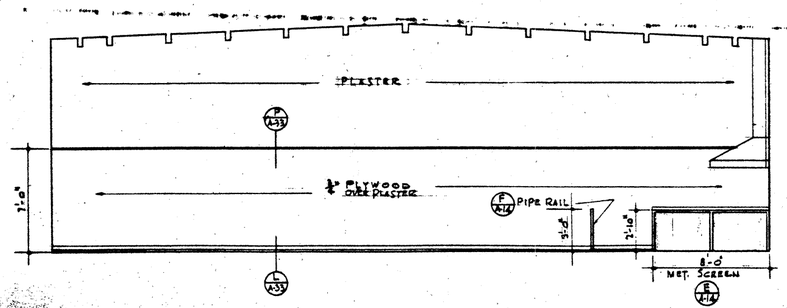
ELEVATION (Y)



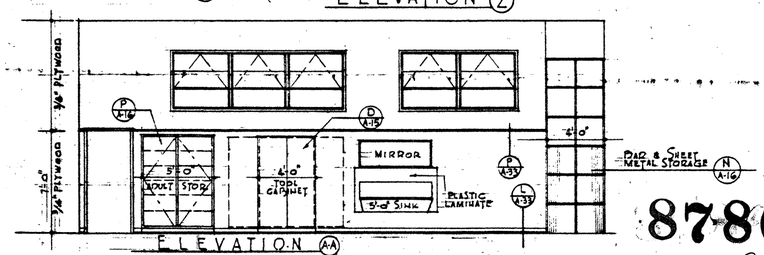
ELEVATION (V)



ELEVATION (Z)



V ELEVATION (W)



ELEVATION (A-A)

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — DIVISION OF ARCHITECTURE AND CONSTRUCTION
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9903 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
3634 W. 7TH STREET - LOS ANGELES 57, CALIF.
REG. NO. E 4638

STEPHEN T. BERRY
STRUCTURAL ENGINEER
LOS ANGELES 19, CALIF.

G. SHIPIMAN & ASSOCIATES
CONSULTING CIVIL ENG. & LAS
9701 WILSHIRE BLVD. - LOS ANGELES 36, CALIF.
REG. NO. C 12447

APPROVED
DATE DEC. 1964
APPROVED
DATE
REVISIONS

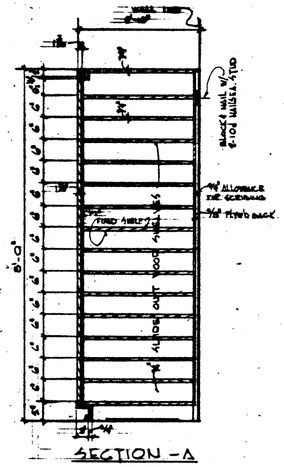
SHEET TITLE
ELECTRIC & GRAPHIC ART SHOPS
INTERIOR ELEVATIONS

NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES CITY UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9000 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

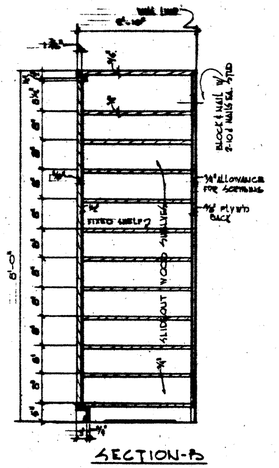
JOB NO. G101
SCALE 1/4"=1'-0"
DRAWN BY
CHECKED BY
SHEET NO. A12
OF 36 SHEETS

[redacted]

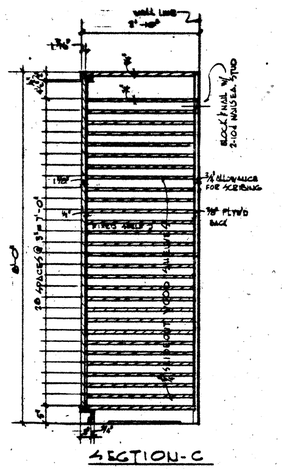


SECTION -A

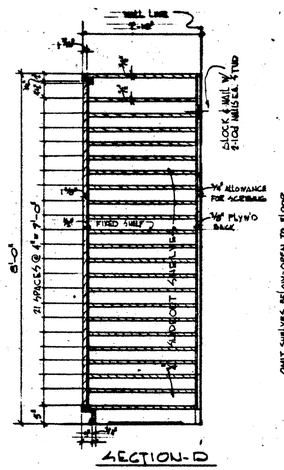
SECTION-A1
(SIMILAR TO SECTION-A EXCEPT SHELVES ARE FIXED)



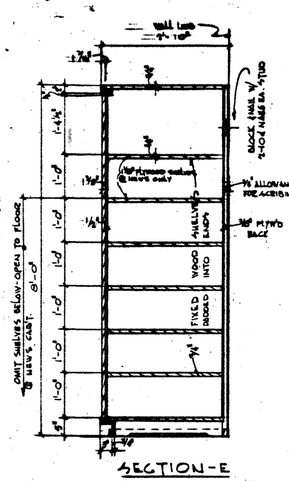
SECTION-B



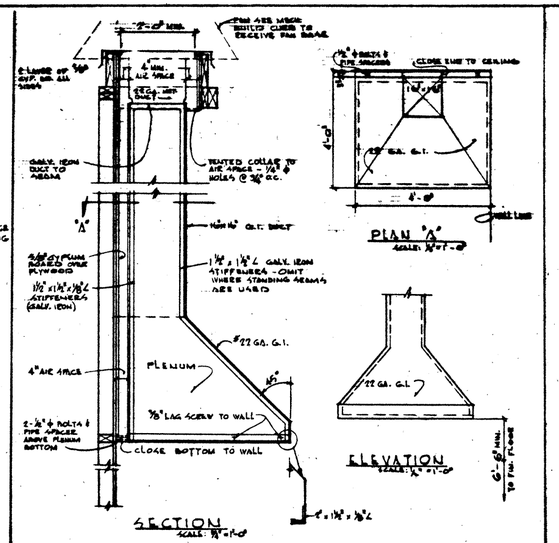
SECTION-C



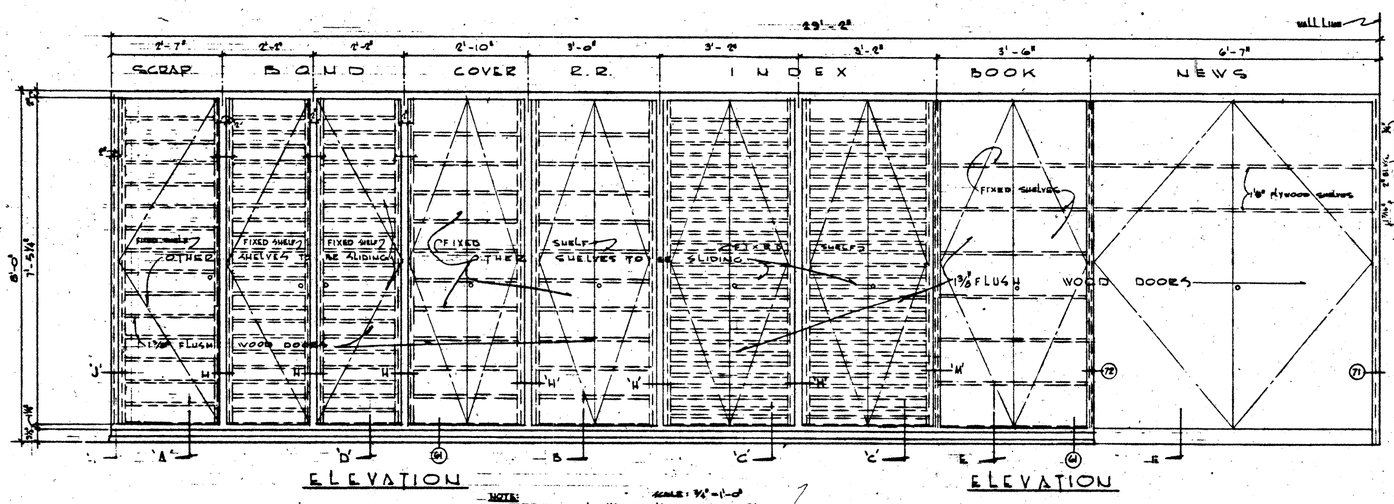
SECTION-D

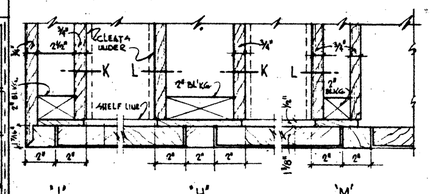


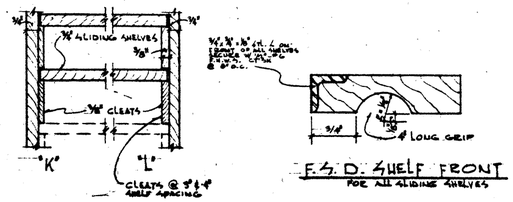
SECTION-E



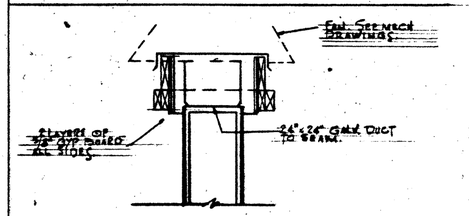
METAL HOOD AT FURNACE AREA (13)







PAPER STORAGE CABINETS (A)

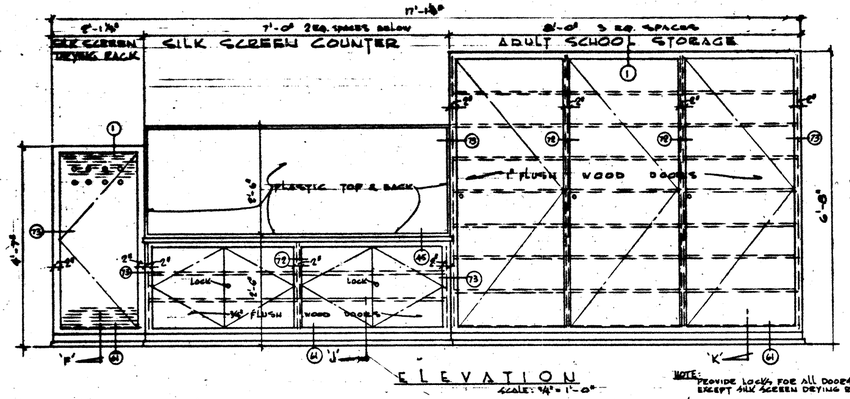


METAL DUCT OPNG AT ROOF (C)

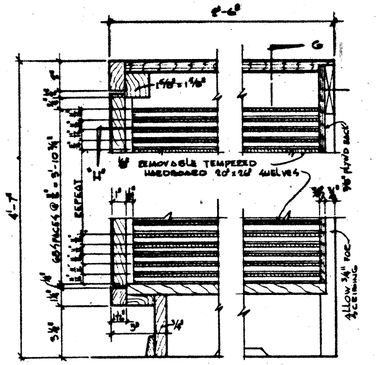
8786.24

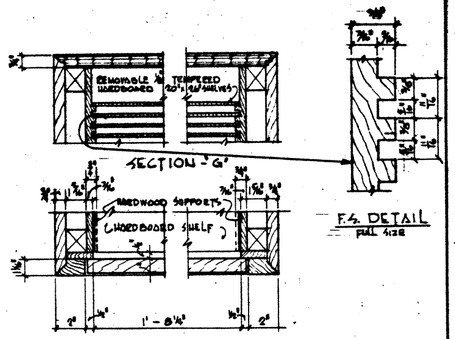
APPROVED DEC 29 1964

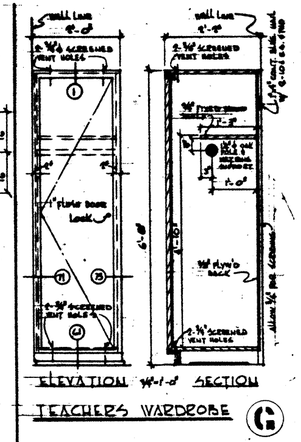
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE APPLICATION NUMBER APPROVED DATE SUPERVISING STRUCTURAL ENGINEER	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE DEC 29 1964 DATE	ZORAN E. SHEFFNER STRUCTURAL ENGINEER 9808 WILSHIRE BLVD. • BEVERLY HILLS, CALIF. REG. NO. S.E.798 GARRETT ENGINEERS CONSULTING ELECTRICAL ENG. 3514 W. 7th STREET • LOS ANGELES 5, CALIF. REG. NO. E-5889 STEPHEN T. SIERKY CONSULTING MECHANICAL ENG. 486 S. SPRING ST. • LOS ANGELES 13, CALIF. REG. NO. M-5889 G. SHUMAN & ASSOCIATES CONSULTING CIVIL ENGINEERS 5657 WILSHIRE BLVD. • LOS ANGELES 36, CALIF. REG. NO. C.E.5889	ARCHITECT DATE DEC. 1964. APPROVED DATE REVISIONS	SHEET TITLE GRAPHIC ARTS SHOP INTERIOR DETAILS ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA PREPARED FOR THE BOARD OF EDUCATION LOS ANGELES UNIFIED SCHOOL DISTRICT ALBERT CRIZ A.I.A. INC. ARCHITECT 9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.	JOB NO. 6701 SCALE 3/4"=1'-0" DRAWN BY CHECKED BY SHEET NO. A13 OF 36 SHEETS

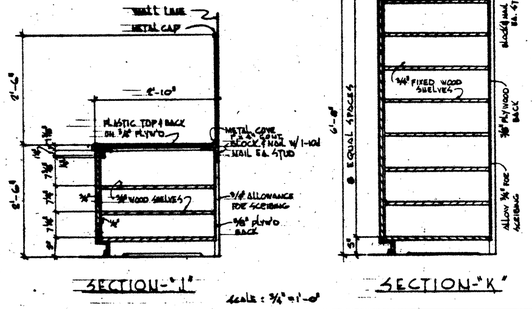


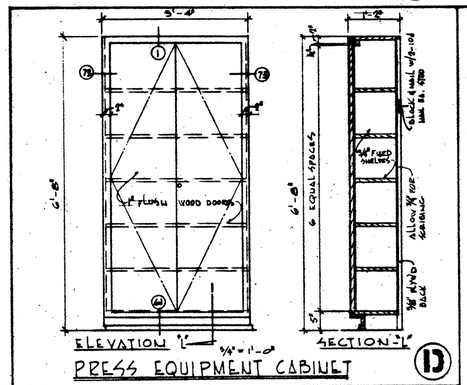
SILK SCREEN COUNTER, DRYING RACK & ADULT STORAGE CABINET (C)

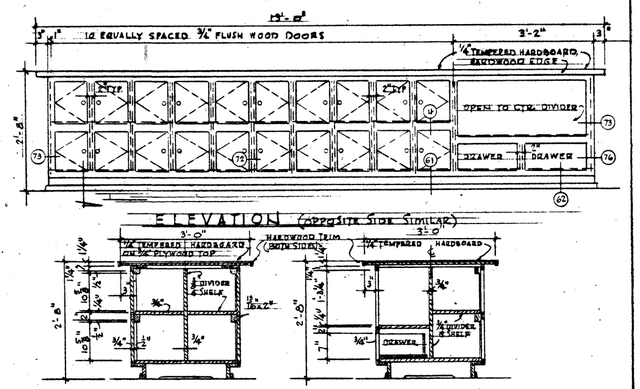






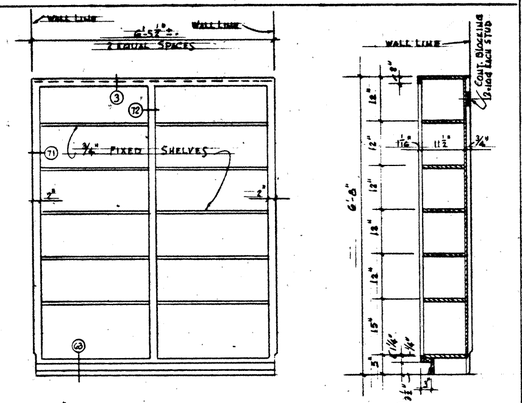




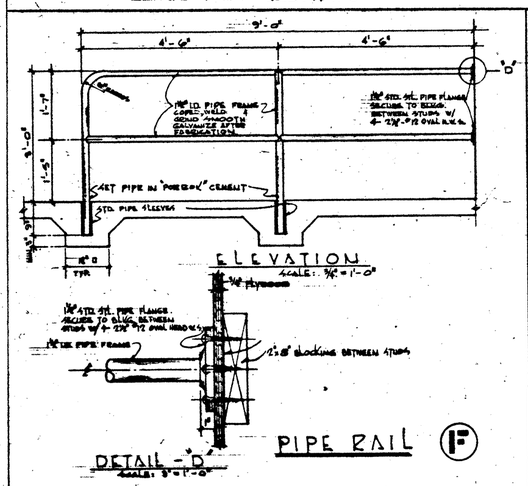


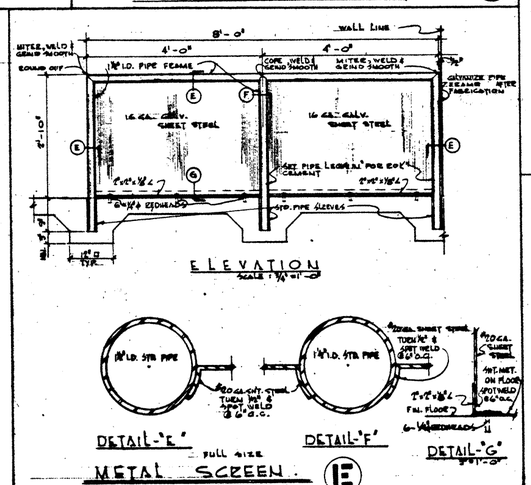
NOTE: PROVIDE LOCKS ALL DOORS (BOTH SIDES)

LOCKER & WRAPPING COUNTER (H)



DETAIL SHELVING IN JANITOR CLOS. (ROOM NO. 9) (J)





8786.24

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER: APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
DATE

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET - LOS ANGELES 57, CALIF.
REG. NO. E-5699

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. - LOS ANGELES 13, CALIF.
REG. NO. M-5880

G. SHURMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
3607 WILSHIRE BLVD. - LOS ANGELES 36, CALIF.
REG. NO. C.E. 9983

ENGINEER
DATE DEC. 10, 64
APPROVED
DATE
REVISIONS

SHEET TITLE
GRAPHIC ARTS SHOP
INTERIOR DETAILS

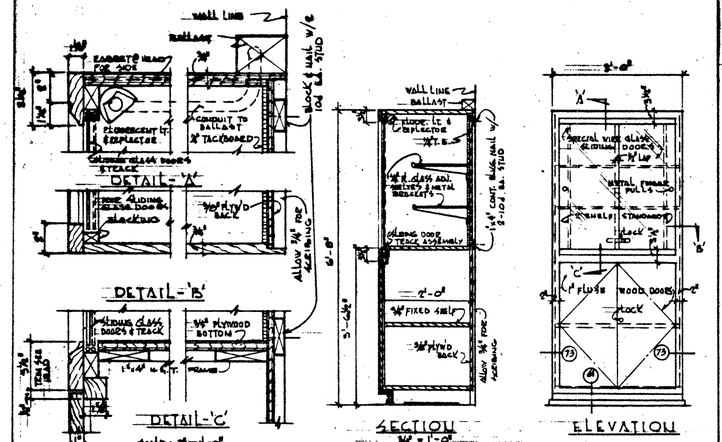
ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

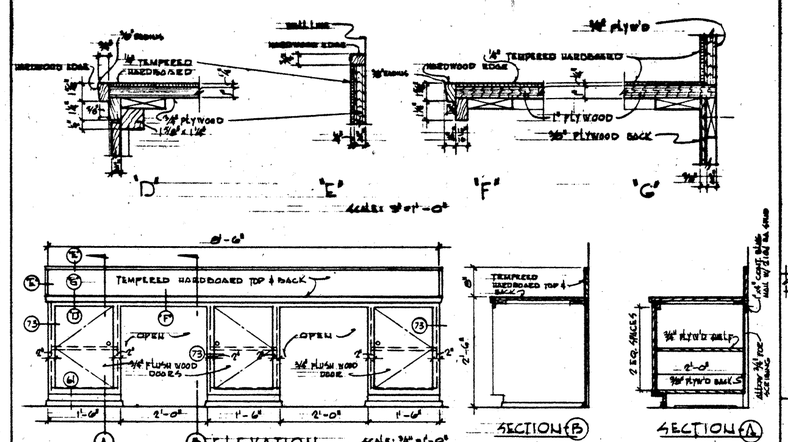
ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD BEVERLY HILLS, CALIF.

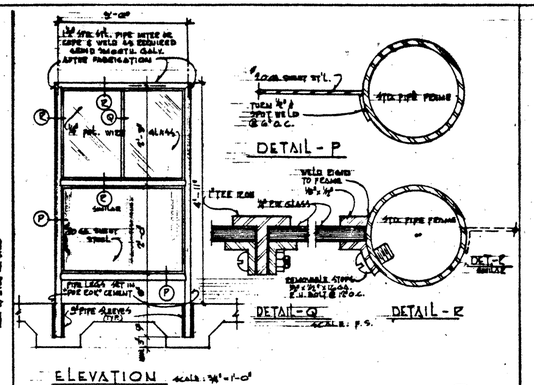
JOB NO. 6101
SCALE AS NOTED
DRAWN BY
CHECKED BY
SHEET NO. A14
OF 36 DRAWINGS

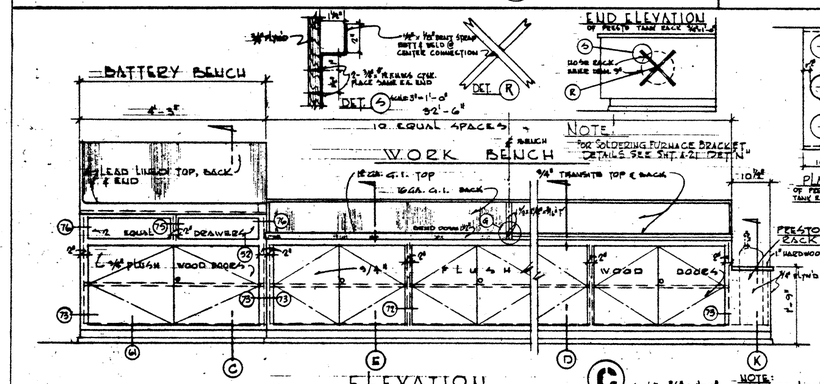
CODE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
U.S. [illegible] ARCHITECTURE AND CONSTRUCTION
25155 APPROVED DEC 29 1964
25155

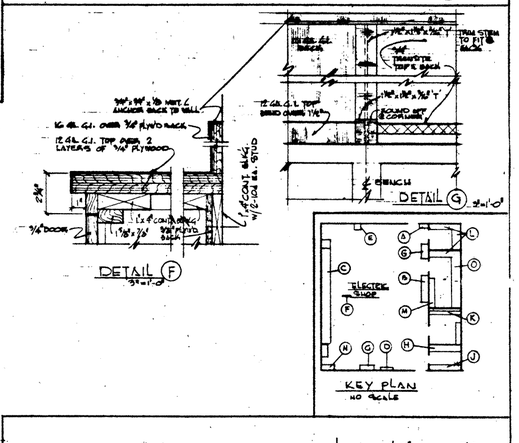
14 - GRAPHIC [redacted]

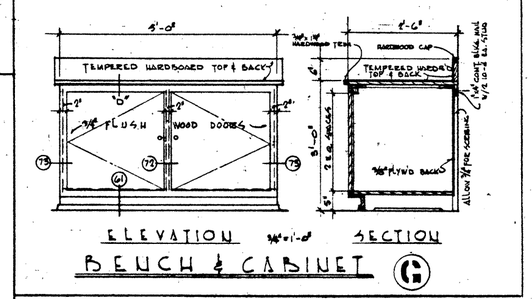


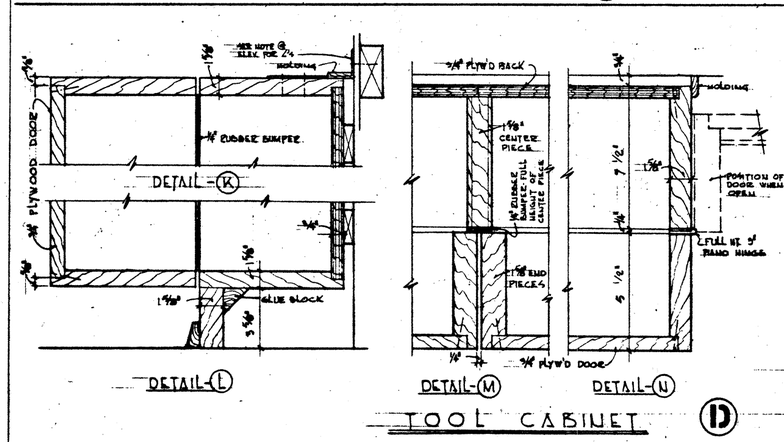


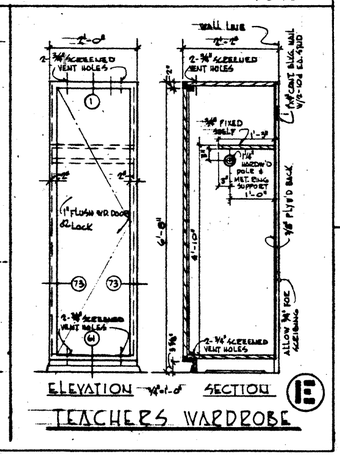










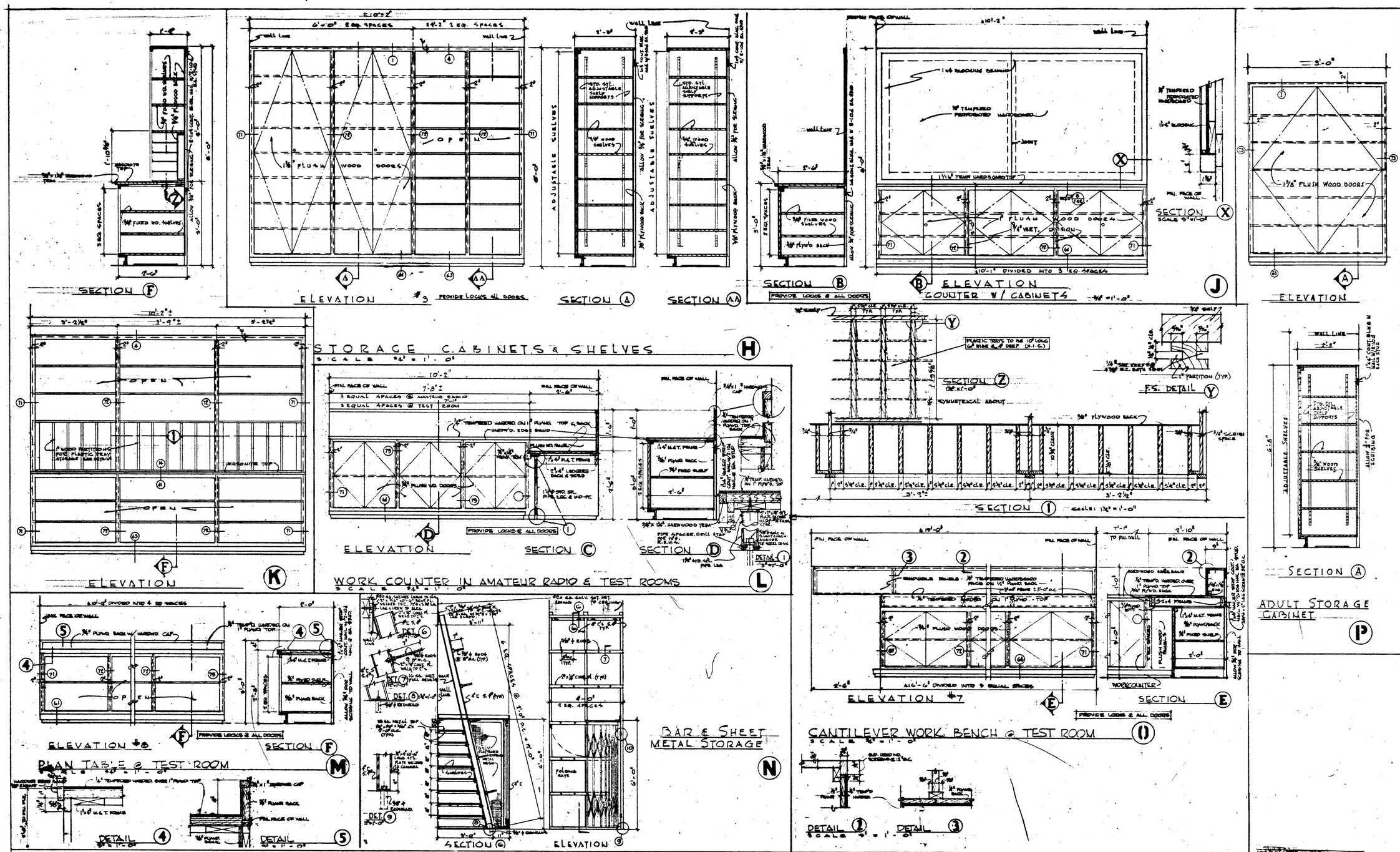


8786.24

APPROVED DEC 23 1964

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA	ZORAH E. SHEFFNER STRUCTURAL ENGINEER 9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF. REG. NO. S.E 795	DATE DEC. 1964	SHEET TITLE ELECTRIC SHOP INTERIOR DETAILS
APPLICATION NUMBER APPROVED	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE DEC 23 1964	GARRETT ENGINEERS CONSULTING ELECTRICAL ENG. 2614 W. 7TH STREET - LOS ANGELES 57, CALIF. REG. NO. E 5889	APPROVED	ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA
DATE	BY	STEPHEN T. BERKY CONSULTING MECHANICAL ENG. 466 S. SPRING ST. - LOS ANGELES 13, CALIF. REG. NO. M-5880	DATE	PREPARED FOR THE BOARD OF EDUCATION LOS ANGELES UNIFIED SCHOOL DISTRICT
SUPERVISING STRUCTURAL ENGINEER	DATE	G. SHUIRMAN & ASSOCIATES CONSULTING CIVIL ENGINEERS 5657 WILSHIRE BLVD. - LOS ANGELES 36, CALIF REG. NO. C.E 9983	REVISIONS	ALBERT CRIZ A.I.A., INC. ARCHITECT 9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. G101
SCALE 3/4"=1'-0"
DRAWN BY
CHECKED BY
SHEET NO. A15
OF 36 SHEETS



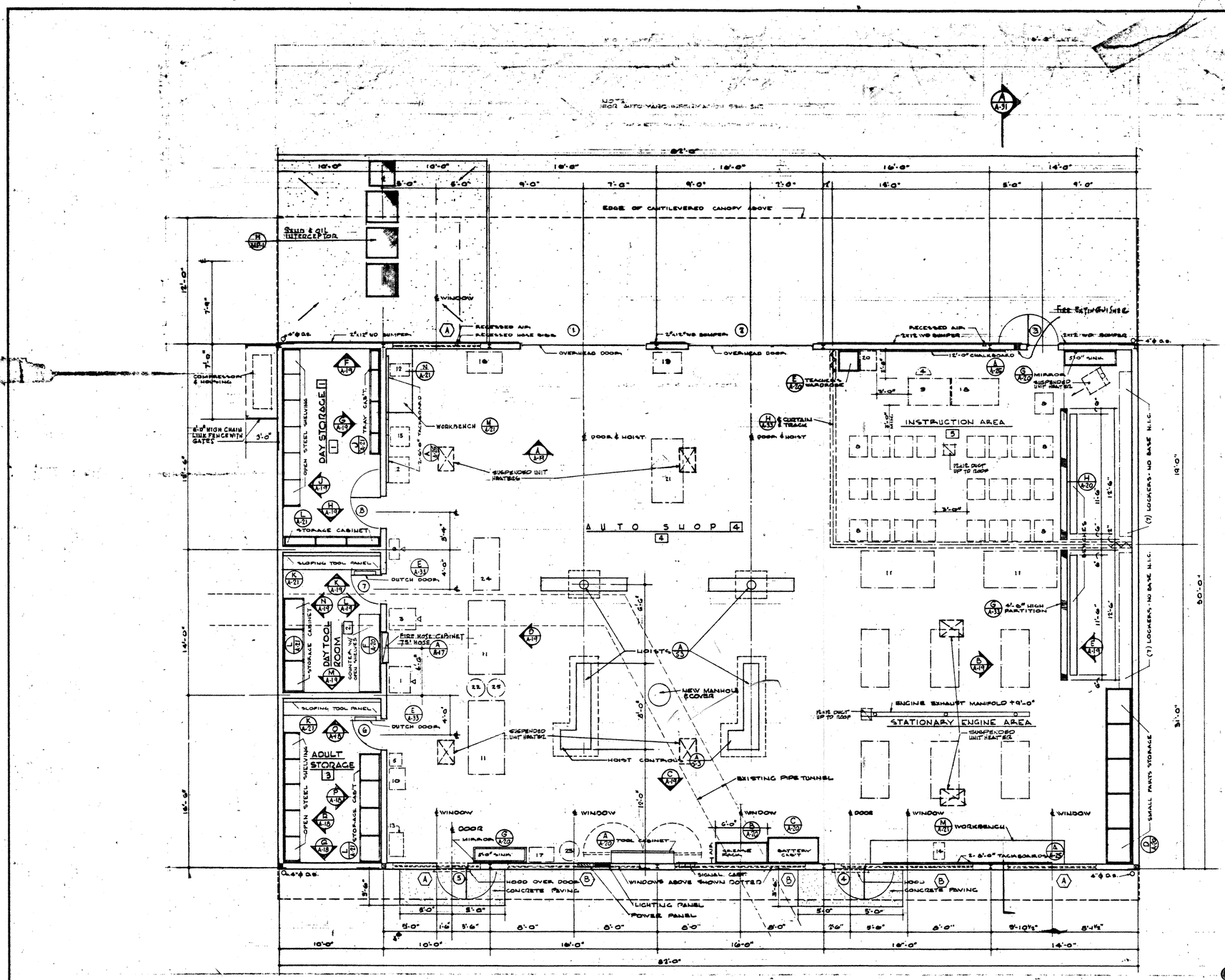
8786.24

STATE OF CALIFORNIA DEPARTMENT OF GENERAL SERVICES
DIVISION OF ARCHITECTURE
APPROVED DEC 29 1964

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA	ZORAN E. SHEFFNER STRUCTURAL ENGINEER 9808 WILSHIRE BLVD. • BEVERLY HILLS, CALIF. REG. NO. S.E.795	ARCHITECT DATE DEC. 10/64.	SHEET TITLE ELECTRIC SHOP INTERIOR DETAILS
APPLICATION NUMBER APPROVED DATE SUPERVISING STRUCTURAL ENGINEER	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE DEC 29 1964 BY	GARRETT ENGINEERS CONSULTING ELECTRICAL ENG. 2614 W. 7th STREET • LOS ANGELES 57, CALIF. REG. NO. E-5699	APPROVED DATE	ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA
		STEPHEN T. BERRY CONSULTING MECHANICAL ENG. 466 S. SPRING ST. • LOS ANGELES 13, CALIF. REG. NO. M-5880	REVISIONS	PREPARED FOR THE BOARD OF EDUCATION LOS ANGELES UNIFIED SCHOOL DISTRICT
		G. SHUIRMAN & ASSOCIATES CONSULTING CIVIL ENGINEERS 9857 WILSHIRE BLVD. • LOS ANGELES 36, CALIF. REG. NO. C.E.9683		ALBERT CRIZ A.I.A. INC. ARCHITECT 9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE AS NOTED
DRAWN BY
CHECKED BY
SHEET NO. A16 OF 36 SHEETS

16 ELECTRIC [redacted] 17

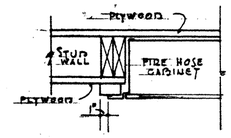


EQUIPMENT LEGEND N.I.C.

ITEM	DESCRIPTION	AMT.		DISPOSITION
1	GRINDER, 10"	1		A
2	DISTRIBUTOR TESTER	1		C
3	DRILL PRESS, 1/2"	1		A
4	CHAIR, 15"	2		C
5	CHARGER, BATTERY	1		C
6	GRINDER, 6"	1		A
7	LOCKERS (12"x18"x24")	87	3 TIER	C
8	CHAIR, TABLET ARM	28		C
9	DESK, TEACHERS	1		C
10	TRUCK, CYLINDER, WELDING	1		C
11	BENCH, WORK (3'-0", 7'-0")	4		C
12	FURNACE, SOLDERING	1		A
13	GRINDER, VALVE REFACER	1		C
14	PRESS, ARBOR	1		C
15	SPARK PLUG CLEANER	1		A
16	TANK, PARTS CLEANING	1		C
17	CABINET, STORAGE PAINT	1		C
18	BENCH, TEACHERS DEMO (1.6")	1		C
19	BALANCER, WHEEL, PORTABLE	1		C
20	FILING CABINET	1		C
21	CRANE HOIST	1		C
22	DISPENSER, GEAR OIL	1		C
23	DRAIN, OIL, PORTABLE	1		C
24	LIFT, END	1		C
25	LUBRICATOR, CHASSIS	1		C

Note!
See Sheet No A-4 for disposition legend.

	W.U.	C.W.U.	H.W.U.
2 WASH SINKS	●	●	●



FIRE HOSE CAB'T. DET. (A)
Scale 1½" = 1'-0"

FLOOR PLAN
1/4" = 1'-0"

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
DIVISION OF ARCHITECTURE AND CONSTRUCTION
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION APPROVED
NUMBER
DATE
STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ORAH E. SHEFFNER
STRUCTURAL ENGINEER
9 WILSHIRE BLVD. BEVERLY HILLS, CALIF.
NO. ST 1795

GARRETT ENGINEERS
MECHANICAL-ELECTRICAL ENG.
2 N. LA CIENEGA BLVD. LOS ANGELES 37, CALIF.
PHONE NO. OL 5-5109

S. EPHRAIM T. BERKY
CIVIL ENGINEER
[illegible] LOS ANGELES 17, CALIF.
PHONE NO. [illegible]

G. HUSHMAN & ASSOCIATES
CONSULTING ENGINEERS
[illegible] LOS ANGELES 36, CALIF.

APPROVED
DATE DEC. 1964.
APPROVED
DATE
REVISIONS

SHEET TITLE
FLOOR PLAN
AUTO SHOP

GENERAL CONTRACTOR
NORTH HOLLYWOOD HIGH SCHOOL
12715 CHASE AVENUE NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
8908 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE 1/4" = 1'-0"
DRAWN BY R.L.
CHECKED BY
SHEET NO. A17

FINISH SCHEDULE

		Room	Floor: Cement	Base: Wood	Base: Shoe Mold	Trim: Douglas Fir	Walls: ¾" Plywood	Walls: ⅜" Plywood	Ceiling: Exposed Const.	Painting: Height	Painting: Walls	Painting: Ceiling	Painting: Trim Room No.	Painting: Dado	Painting: Dado Height	Remarks
AUTO SHOP	1	DAY STORAGE	●	●	●	●		●	●		S	-	3			
	2	DAY TOOL ROOM	●	●	●	●		●	●		-	-	3			
	3	ADULT STORAGE	●	●	●	●		●	●		S	-	3			
	4	AUTO SHOP	●	●	●	●	●	●	●		-	-	3	3	7'-0"	
	5	INSTRUCTION AREA	●	●	●	●	●	●	●		-	-	3	3	7'-0"	

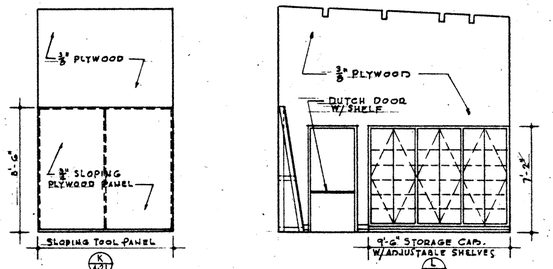
DOOR SCHEDULE

Type	No	Size: Width	Size: Height	Size: Thick	Details: Jamb	Details: Head	Details: Sill	Threshold	Louver	Remarks
H	1	9'-0"	12'-0"							
H	2	9'-0"	12'-0"							
D	3	3'-0"	7'-0"	1⅜"				STL. CHAN.		
D	4	3'-0"	7'-0"	1¾"				STL. CHAN.		
D	5	3'-0"	7'-0"	1¾"				STL. CHAN.		
D	6	3'-0"	7'-0"	1¾"						
D	7	3'-0"	7'-0"	1¾"						
D	8	3'-0"	7'-0"	1¾"						

WINDOW SCHEDULE

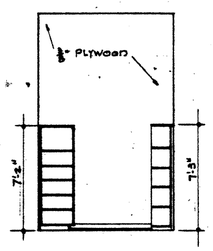
Type	Size	Material	Remarks
A	7'-7⅝" x 4'-1"	STEEL	
B	11'-6⅝" x 4'-1"	STEEL	

NOTES!
1. FOR PAINTING LEGEND & NOTES SEE SHEET No A-5.
2. FOR DOOR & WINDOW TYPES SEE SHEET No A-5

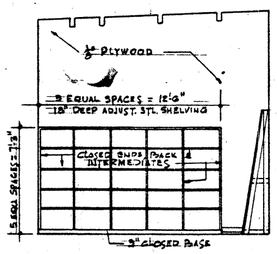


✓ ELEVATION ⓞ

✓ ELEVATION Ⓟ

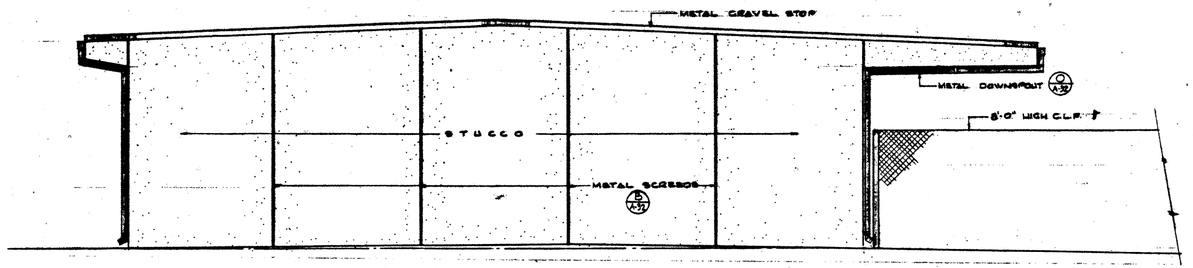


✓ ELEVATION Ⓠ

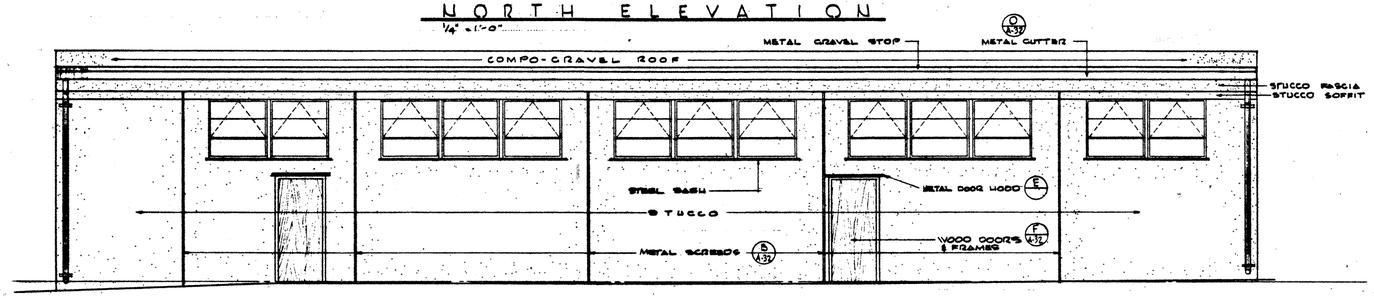


✓ ELEVATION Ⓡ

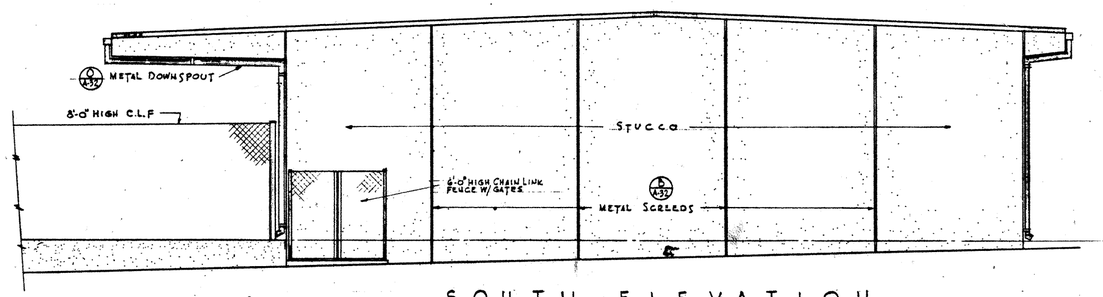
ADULT STORAGE ROOM No 3 IN AUTO SHOP



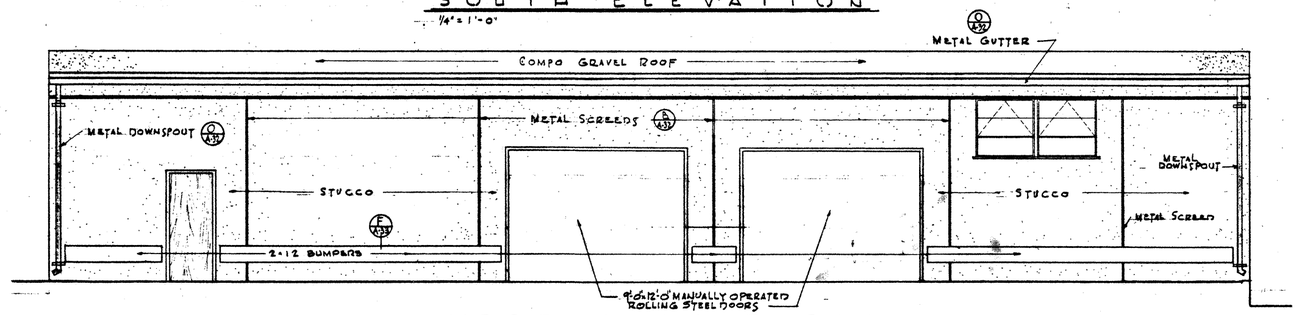
NORTH ELEVATION
1/4" = 1'-0"



EAST ELEVATION
1/4" = 1'-0"



SOUTH ELEVATION
1/4" = 1'-0"



WEST ELEVATIONS
1/4" = 1'-0"

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS — DIVISION OF ARCHITECTURE
APPLICATION NUMBER — APPROVED — DATE — SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAH SHEFFNER — STRUCTURAL ENGINEER — 9744 WILSHIRE BLVD. - BEVERLY HILLS, CALIF. — PERS NOS 3 - 726
GARRETT ENGINEERS — CONSULTING ELECTRICAL ENGINEERS — 3435 WILSHIRE BLVD. - LOS ANGELES 57, CALIF
ST[illegible] PAT SERKY — CONSULTING MECHANICAL ENGINEER — 3435 WILSHIRE BLVD. - LOS ANGELES 57, CALIF. — [illegible]
G. [illegible] HERMAN & ASSOCIATES — CONSULTING CIVIL ENGINEERS — 5670 WILSHIRE BLVD. - LOS ANGELES 36, CALIF — TELEPHONE [illegible]

ARCHITECT
DATE DEC. 1964

APPROVED
DATE

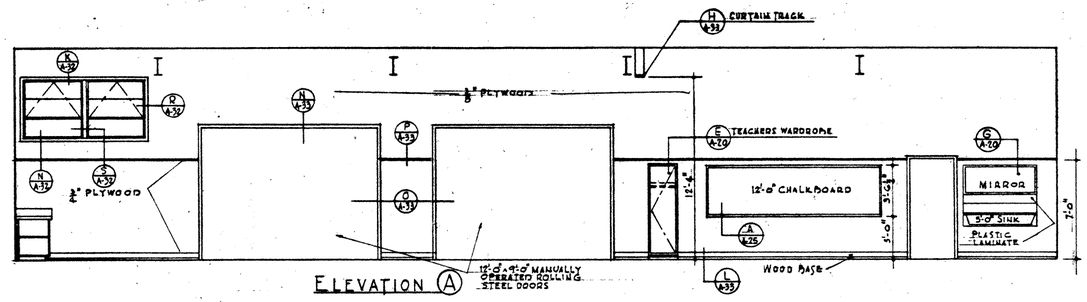
REVISIONS

SHEET TITLE: EXTERIOR ELEVATIONS AUTO SHOP

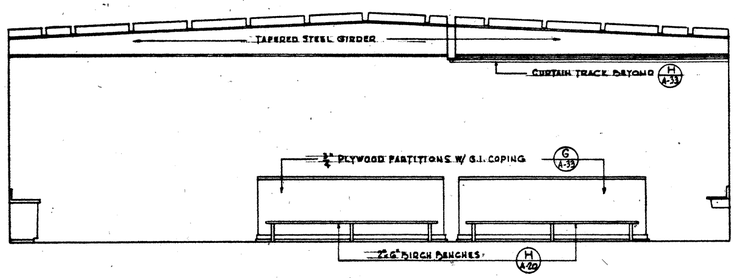
ADDITIONS AND ALTERATIONS TO EXISTING SHOP BUILDING AT
NORTH HOLLYWOOD HIGH SCHOOL
NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
OF THE LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

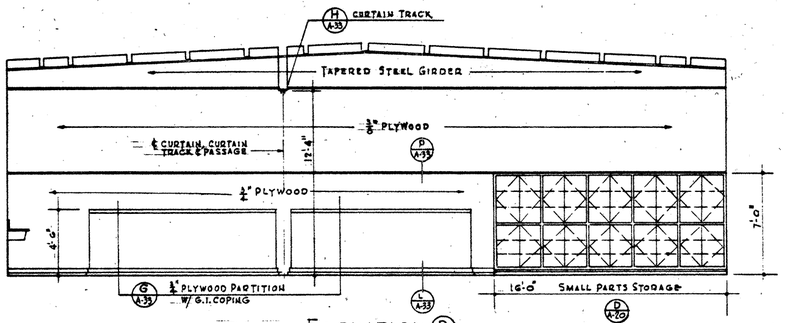
JOB NO. 6101
SCALE 1/4"-1'0"
DRAWN BY M.S.
CHECKED BY
SHEET NO. A18 OF 36 SHEETS



ELEVATION (A)



ELEVATION (E)



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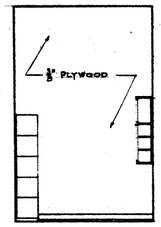

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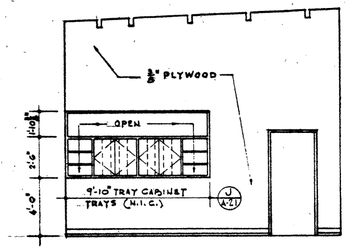

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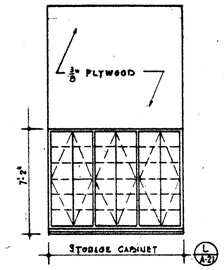

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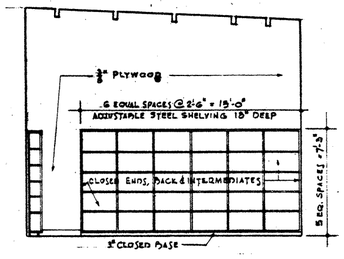
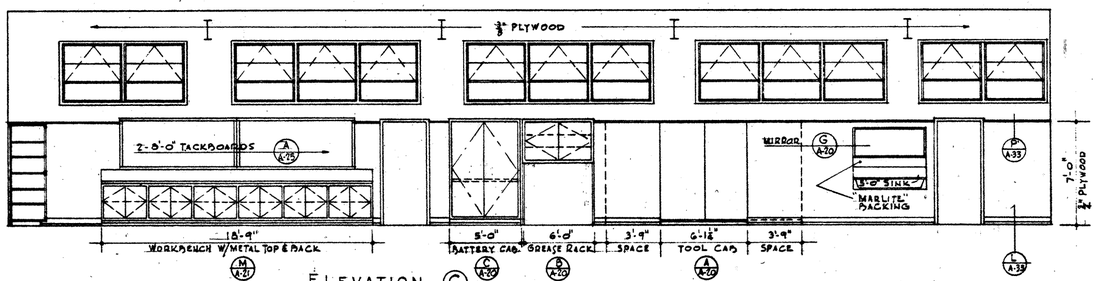


√ ELEVATION (J)

DAY ROOM Nº 1 IN AUTO SHOP



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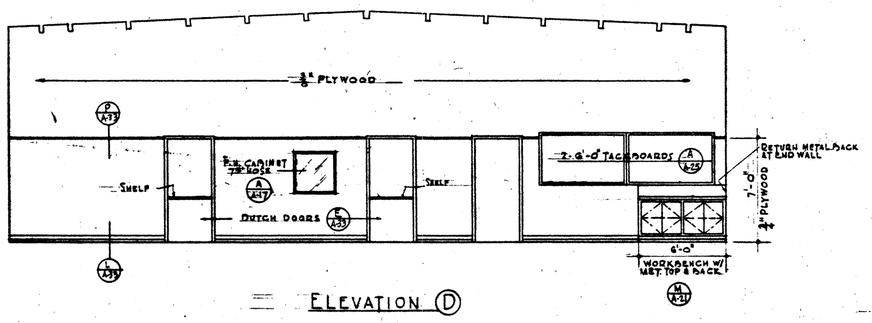

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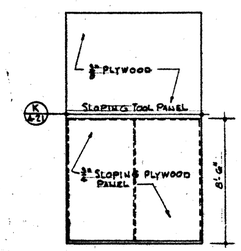
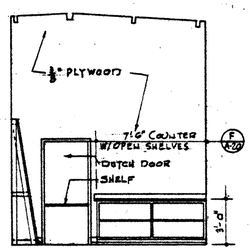


ELEVATION (K)



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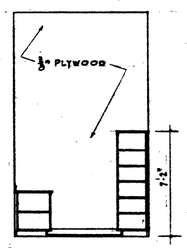
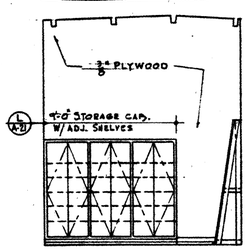


ELEVATION (M)



ELEVATION (N)

DAY TOOL ROOM Nº 2 IN AUTO SHOP

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
OFFICE OF ARCHITECTURE AND CONSTRUCTION
APPLICATION NO. 25154 25153 APPROVED DEC 29 1964
FOR [illegible]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY [signature]

ZORAH E. SHEFTNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7TH STREET - LOS ANGELES 57, CALIF.
REG. NO. E 5009

STEPHEN T. BERKY
CONSULTING MECHANICAL ENG.
656 S. SPRING ST. - LOS ANGELES 13, CALIF.
REG. NO. M 5880

S. SHUIRMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
3437 W. SHAW BLVD. - LOS ANGELES 35, CALIF.
REG. NO. C 15294

APPROVED [signature]
DATE DEC. 1964.
APPROVED
DATE
REVISIONS

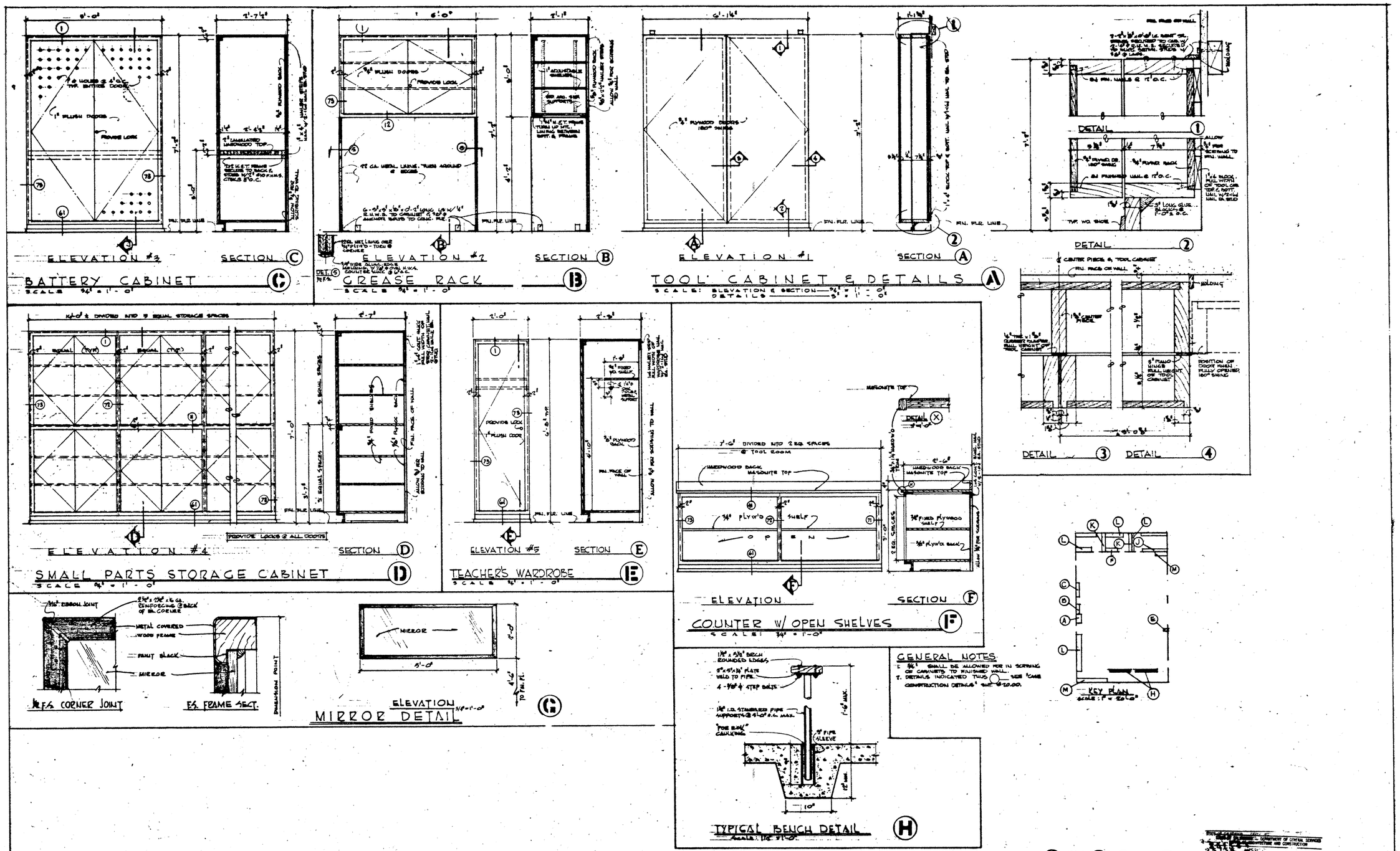
SHEET TITLE
INTERIOR ELEVATIONS
AUTO SHOP

ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING for
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
8000 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE 1/4"=1'-0"
DRAWN BY B.A.G.
CHECKED BY
SHEET NO. A19 OF 36 SHEETS

8786.24



8786.24

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964

ZORAN E. SHEFFNER
STRUCTURAL ENGINEER
5900 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
REG. NO. S.E.795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET • LOS ANGELES 57, CALIF.
REG. NO. E-5680

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
465 S. SPRING ST. • LOS ANGELES 13, CALIF.
REG. NO. M-5880

G. SHUMMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
5657 WILSHIRE BLVD. • LOS ANGELES 36, CALIF.
REG. NO. C.E.5682

DEC. 1964.

SHEET TITLE
AUTO SHOP
INTERIOR DETAILS

ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR
NORTH HOLLYWOOD HIGH SCHOOL
NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

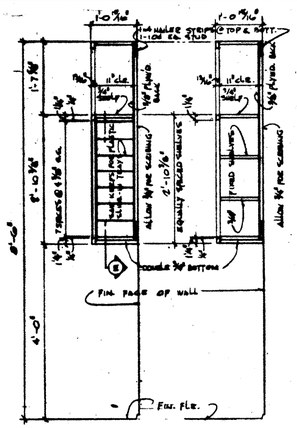
ALBERT CRIZ A.I.A. INC.
ARCHITECT
5388 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

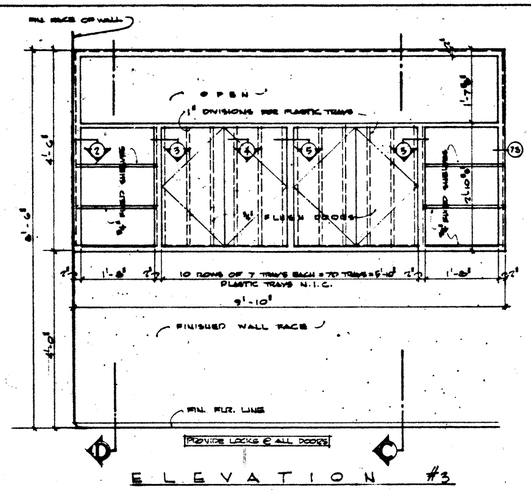
JOB NO. 6106
SCALE
DRAWN BY
CHECKED BY
SHEET NO. A20
OF 36 SHEETS

20-

[redacted]

21

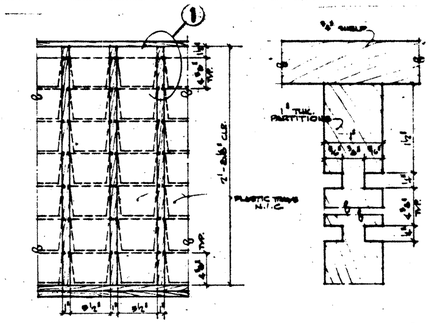


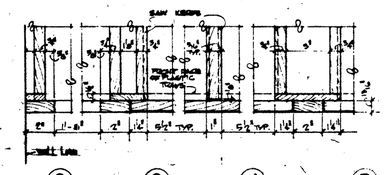


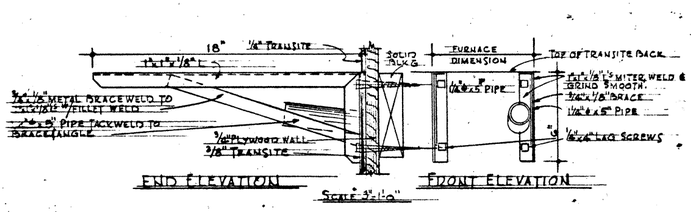
PLASTIC TRAY CABINET (J)

SCALE 3/4" = 1'-0"

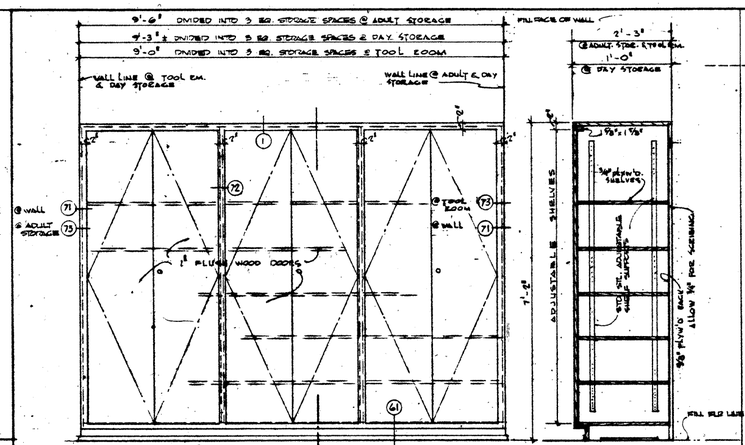
MATTRESS SIZE OR PLASTIC TRAYS TO BE 10" LONG, 6" WIDE & 4" DEEP (N.I.C.)





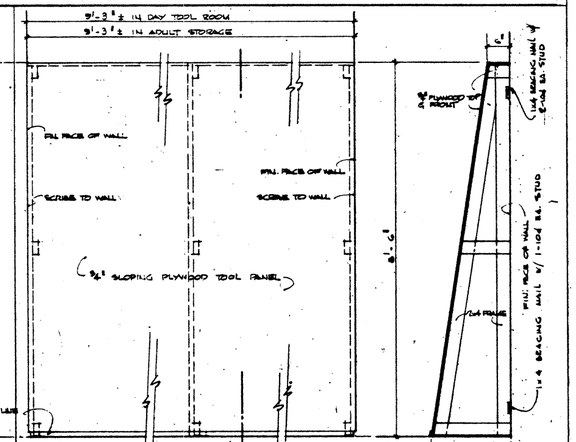


DETAIL FOR SOLDERING FURNACE BRACKETS (N)



STORAGE CABINET (L)

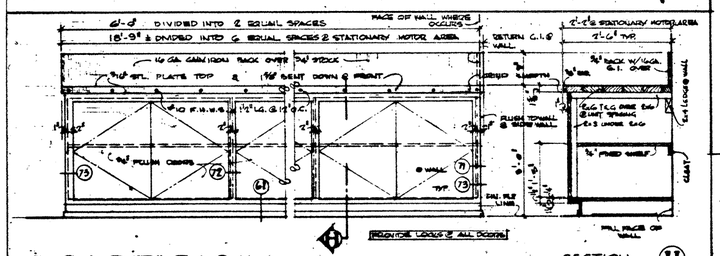
SCALE 3/4" = 1'-0"



SLOPING TOOL PANEL (K)

SCALE 3/4" = 1'-0"

ISSUE 3/63



WORK BENCH (M)

SCALE 3/4" = 1'-0"

8786.24

APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPLICATION NUMBER APPROVED

DATE

SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

DATE

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
REG. NO. S.E.-795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET • LOS ANGELES 57, CALIF.
REG. NO. E-5889

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. • LOS ANGELES 13, CALIF.
REG. NO. M-5880

S. SHUIRMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
3667 WILSHIRE BLVD. • LOS ANGELES 36, CALIF.
REG. NO. C.E.-9683

DATE DEC. 1964

APPROVED

DATE

REVISIONS

SHEET TITLE
AUTO SHOP
INTERIOR DETAILS

ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA

PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT C. RIZ, A.I.A., INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE AS NOTED
DRAWN BY
CHECKED BY
SHEET NO. A 21
OF 36 SHEETS

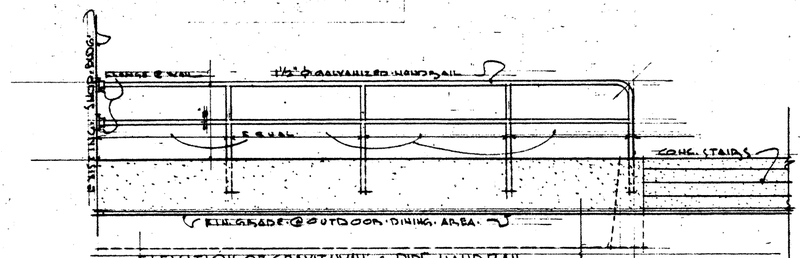
EQUIPMENT LEGEND N.I.C.

DRAFTING ROOM

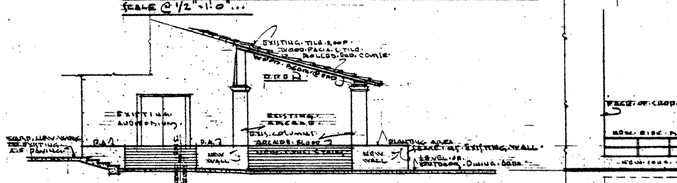
ITEM	DESCRIPTION	UNIT
1	TABLE, DRAFTING (EACH ROOM)	36
2	DESK, TEACHERS "	1
3	FILING CABINET "	1
4	STOOL "	36
5	CHAIR, 18" "	2
6	PRINTER, BLUEPRINT	1
7	CABINET, DRAFTING (EACH ROOM)	18
8	BOOKCASE "	2
9	TABLE, PLANNING "	1

GENERAL NOTES

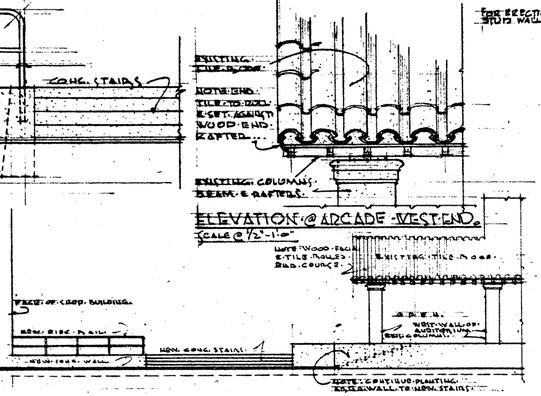
1. ALL NEW WALLS SHALL HAVE WOOD BASE & SHOE TO MATCH EXISTING.
2. WHERE NECESSARY EXISTING PIPE & CONDUIT HANGERS SHALL BE REMOVED & REPLACED IN A NEAT & ORDERLY MANNER.
3. ALL EXISTING CABINETS, FIXTURES OR EQUIPMENT THAT ARE TO BE REMOVED & RESET IS DAMAGED IT SHALL BE REPAIRED TO MATCH ORIGINAL ITEM.
4. ALL MISCELLANEOUS ITEMS & EQUIPMENT NOT HEREIN INDICATED SHALL BE REMOVED, STORED & RELOCATED WHERE DIRECTED.
5. INTERIOR WALLS SHALL HAVE A PAINTED GLOSS ENAMEL DADO AS SPECIFIED.
6. ALL NEW WORK TO MATCH & TIE IN WITH EXISTING.
7. ALL WALL, CEILING & FLOOR SURFACES DAMAGED DURING CONSTRUCTION SHALL BE PATCHED & REPAIRED.



ELEVATION OF GRAVITY WALL & PIPE HANDRAIL...
SCALE @ 1/2"=1'-0"

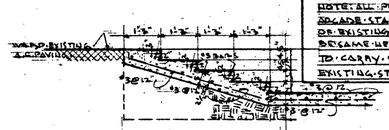


ELEVATION @ ARCADE LOOKING EAST
SCALE @ 1/8"=1'-0"



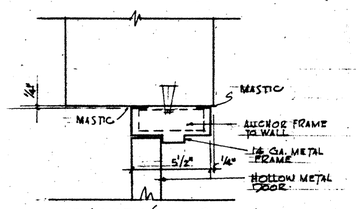
ELEVATION @ ARCADE - WEST END
SCALE @ 1/2"=1'-0"

ELEVATION @ ARCADE END @ WEST AUDITORIUM WALL
SCALE @ 1/8"=1'-0"



TYPICAL CONC STAIRS...
SCALE @ 1/2"=1'-0"

NOTE: ALL PLANTING AREAS AND ARCADE STAIRS TO BE DEMOLISHED OR EXISTING STAIRS & WALLS TO BECAME HEIGHT AND THICKNESS TO CARRY SAME REINFORCING AS EXISTING STAIRS & WALLS...



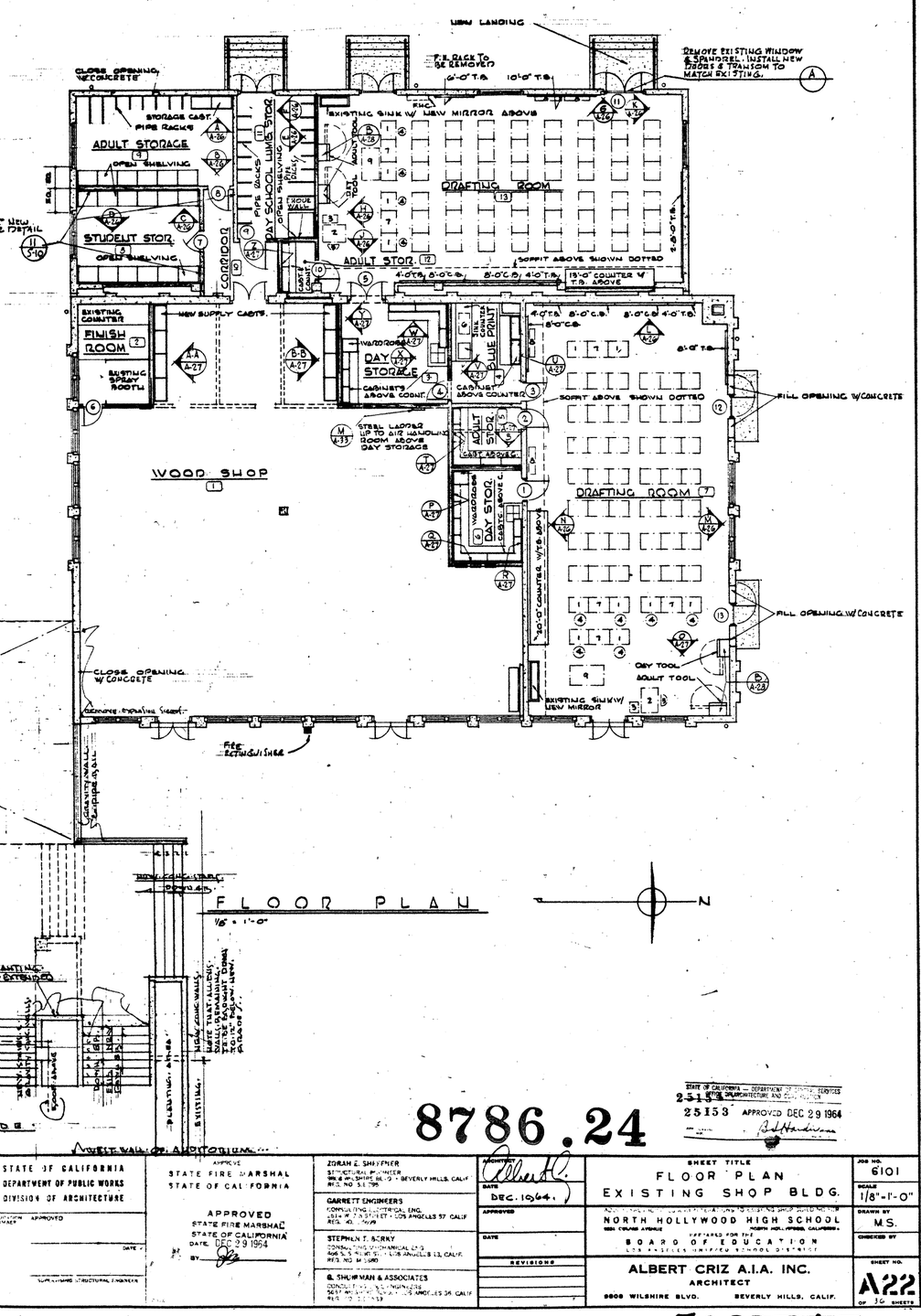
JAMB (HEAD SIMILAR)

HOLLOW METAL FRAME DET. (A)
SCALE 3"=1'-0"

DOOR SCHEDULE

TYPE	NO.	SIZE WIDTH	SIZE HEIGHT	SIZE THICK.	DETAILS JAMB	DETAILS HEAD	DETAILS SILL	THRESHOLD	LOUVER	REMARKS
J	1	3'-0"	7'-0"	1¾"						CLASS "C" LABELLED
J	2	2'-6"	7'-0"	1¾"						CLASS "C" LABELLED
J	3	3'-0"	7'-0"	1¾"						CLASS "C" LABELLED
J	4	3'-0"	7'-0"	1¾"						CLASS "C" LABELLED
K	5	2'-2½"	7'-0"	1¾"						CLASS "C" LABELLED
J	6	3'-0"	7'-0"	1¾"						CLASS "C" LABELLED
J	7	2'-8½"	7'-0"	1¾"						CLASS "C" LABELLED
J	8	3'-0"	7'-0"	1¾"						CLASS "C" LABELLED
J	9	3'-0"	7'-0"	1¾"						CLASS "C" LABELLED
J	10	3'-0"	7'-0"	1¾"						CLASS "C" LABELLED
	11									DOOR TO MATCH EXISTING
D	12	3'-0"	7'-0"	1¾"						DOOR & CASING TO MATCH EXISTING DOOR
D	13	3'-0"	7'-0"	1¾"						DOOR & CASING TO MATCH EXISTING DOOR
L	14	2'-2½"	4'-0"	1½"						DOOR & CASING TO MATCH EXISTING

NOTE! FOR DOOR TYPES SEE SHEET A-5



FLOOR PLAN
1/8" = 1'-0"

LEGEND:
- EXISTING CONCRETE
- NEW CONCRETE
- EXISTING STUD WALL
- NEW STUD 1 HOUR SEPARATION WALL
- TO BE REMOVED

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION APPROVED
NUMBER
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVE
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAH E. SHEYPEER
STRUCTURAL ENGINEER
9836 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
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GARRETT ENGINEERS
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5514 W. 3RD STREET - LOS ANGELES 57 CALIF
REG. NO. 10699

STEPHEN T. BORKY
CONSULTING MECHANICAL ENG.
648 S. WILCOX - LOS ANGELES 13, CALIF.
REG. NO. M 5980

G. SHUMWAY & ASSOCIATES
CONSULTING SOILS ENGINEERS
9619 WILSHIRE BLVD. - LOS ANGELES 36 CALIF
REG. NO.

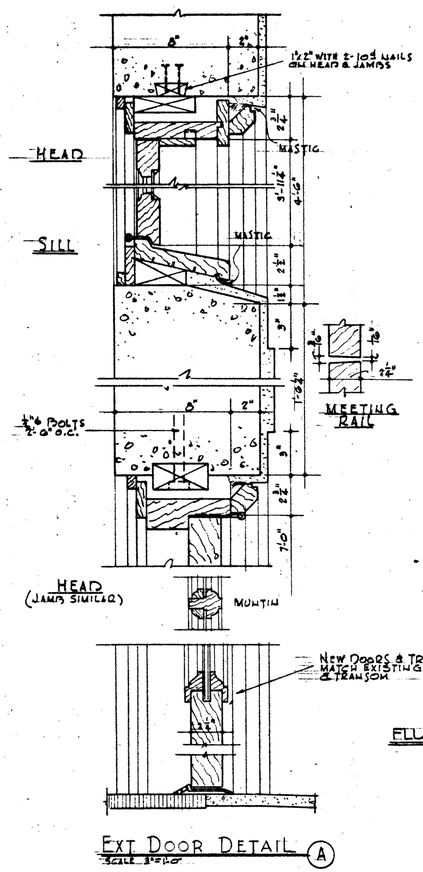
ARCHITECT
DATE DEC. 1964
APPROVED
DATE
REVISIONS

SHEET TITLE
FLOOR PLAN
EXISTING SHOP BLDG.

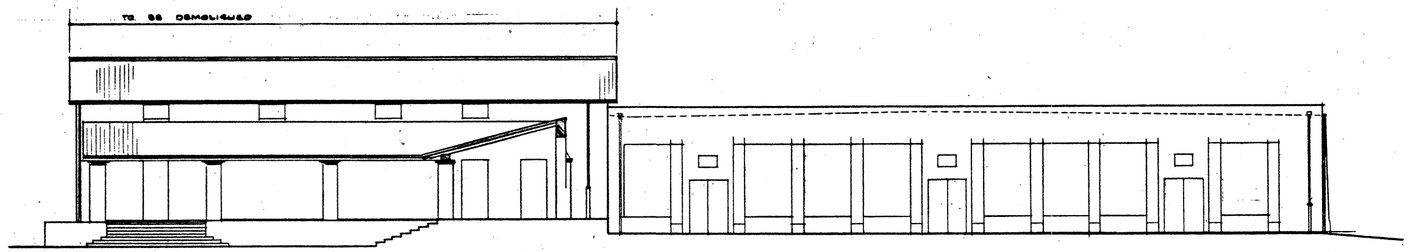
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9908 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

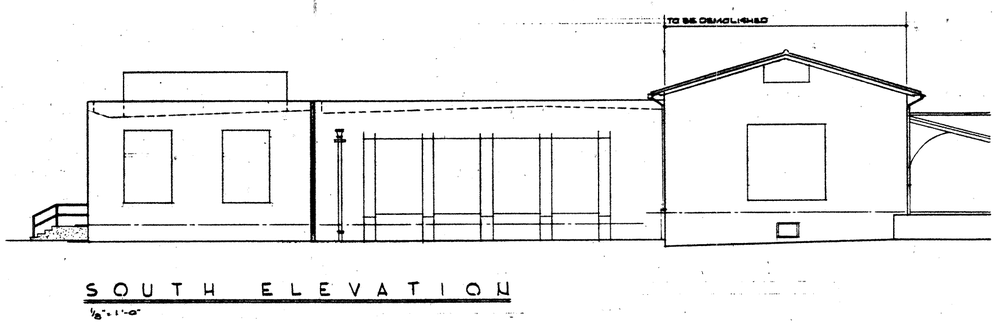
JOB NO. 6101
SCALE 1/8"-1'-0"
DRAWN BY M.S.
CHECKED BY
SHEET NO. A22 OF 36 SHEETS



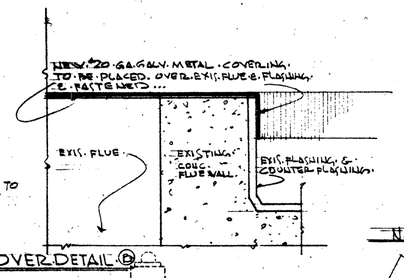
EXT DOOR DETAIL (A)
SCALE 3"=1'-0"



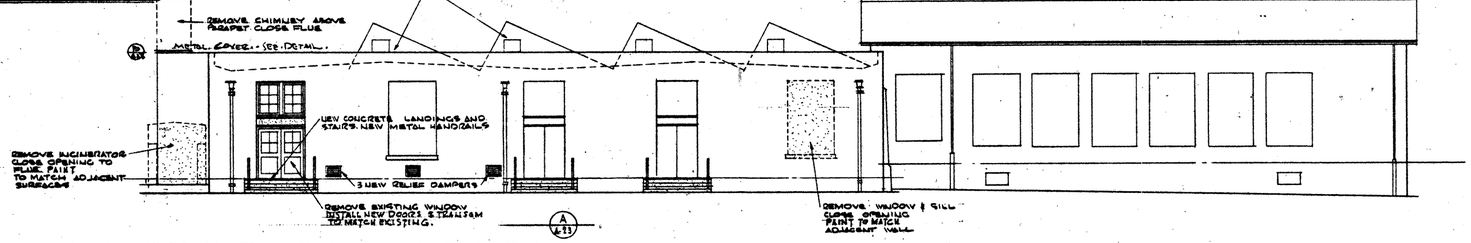
EAST ELEVATION
1/8"=1'-0"



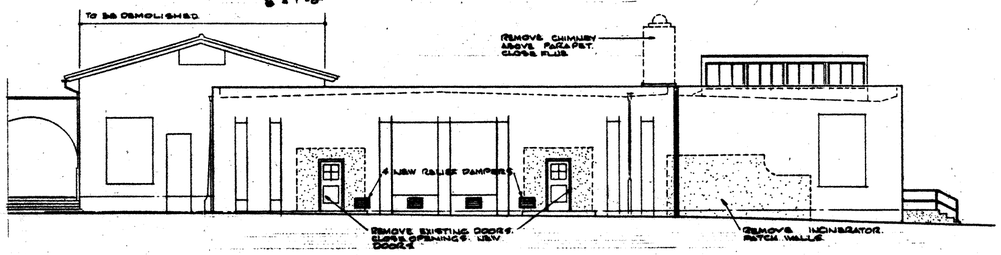
SOUTH ELEVATION
1/8"=1'-0"



FLUE COVER DETAIL (B)



WEST ELEVATION
1/8"=1'-0"



NORTH ELEVATION
1/8"=1'-0"

8786.24

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORIAN E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

BARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
7616 W. 7TH STREET - LOS ANGELES 57, CALIF.
REG. NO. E-3099

STEPHEN T. BERKY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. - LOS ANGELES 13, CALIF.
REG. NO. M-3820

G. SHURMAN & ASSOCIATES
CONSULTING PLUMBING ENG.
9607 WILSHIRE BLVD. - LOS ANGELES 35, CALIF.
REG. NO. C.E.S. 81

DATE DEC. 1964.
APPROVED
DATE
REVISIONS

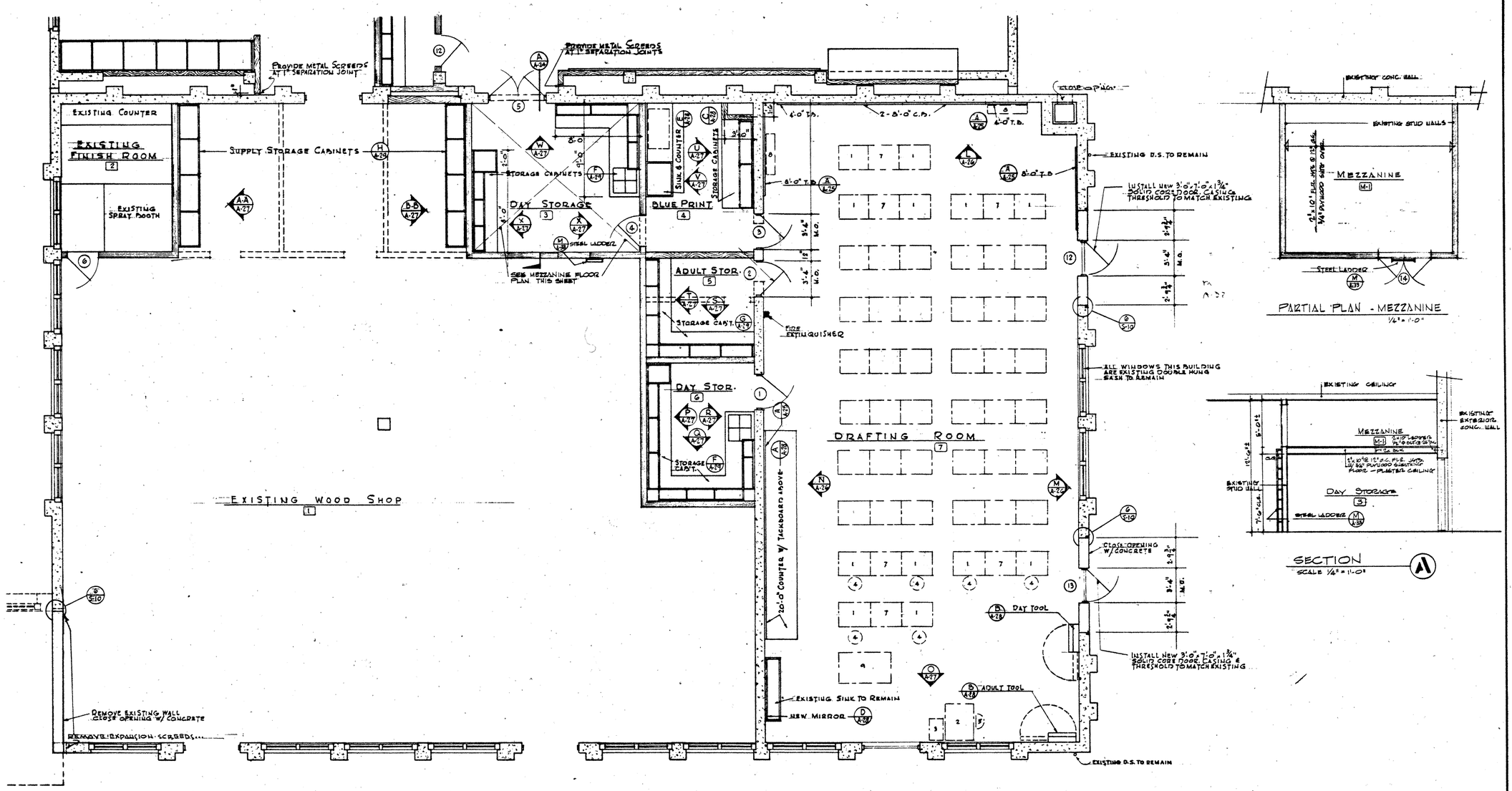
SHEET TITLE
EXTERIOR ELEVATIONS
EXISTING SHOP BLDG.

JOB NO. 6101
SCALE 1/8"-1'-0"
DRAWN BY MS
CHECKED BY
SHEET NO. A23 OF 36 SHEETS

INDUSTRIAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING AT
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

STATE OF CALIFORNIA DEPARTMENT OF GENERAL SERVICES
DIVISION OF ARCHITECTURE AND CONSTRUCTION
25154
25153 APPROVED DEC 29 1964
[redacted]



LEGEND

- EXISTING CONCRETE
- NEW CONCRETE
- EXISTING STUD WALL
- NEW STUD WALL
- WALLS TO BE REMOVED

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — OFFICE OF ARCHITECTURE AND CONSTRUCTION
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9408 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
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GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET • LOS ANGELES 57, CALIF.
REG. NO. E-5699

STEPHEN T. BERKY
CONSULTING MECHANICAL ENG.
446 S. SPRING ST. • LOS ANGELES 13, CALIF.
REG. NO. M-5880

G. SHURMAN & ASSOCIATES
CONSULTING ENGINEERS
5657 WILSHIRE BLVD. • LOS ANGELES 36, CALIF.
REG. NO. S.E. 5641

ARCHITECT
DATE DEC. 15/64
APPROVED
DATE
REVISIONS

SHEET TITLE
PARTIAL FLOOR PLAN
EXISTING SHOP BLDG.

ADDITIONAL PROVISIONS AND ALTERATIONS TO EXISTING SHOP BLDG. AND
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9800 WILSHIRE BLVD. — BEVERLY HILLS, CALIF.

JOB NO. 6106
SCALE 1/4" = 1'-0"
DRAWN BY B.A.G.
CHECKED BY
SHEET NO. A24 OF 36 SHEETS

24

25

FINISH SCHEDULE

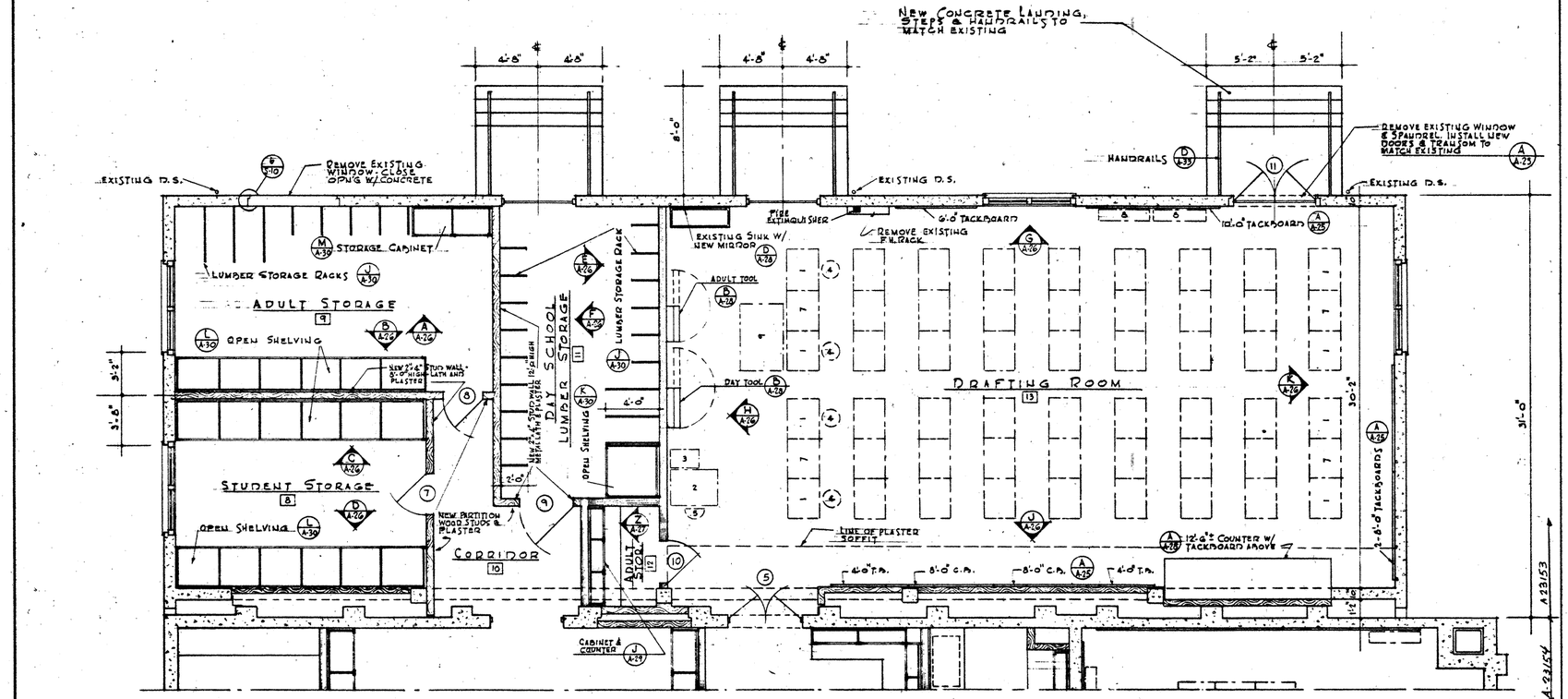
	Room	Floor: Asphalt	Floor: Concrete	Floor: Wood	Floor: Vinyl Asbestos	Base: Cement	Base: Wood	Base: Vinyl Asbestos	Trim: Wood	Trim: Metal	Walls: Plaster	Ceiling: Plaster	Ceiling: Exposed	Ceiling: Acst. Tile	Painting: Walls	Painting: Ceiling	Painting: Trim and Woodwork	Painting: Dado	Remarks
EXISTG. SHOP BLDG	1 WOOD SHOP			●			●		●		●				1	1	3	3	SEE NOTE No 1.
	2 FINISH ROOM			●			●		●		●	●			3	1	3	3	
	3 DAY STORAGE			●			●		●		●	●			3	1	3	3	
	4 BLUE PRINT			●			●		●		●	●			3	1	3	3	
	5 ADULT STORAGE			●			●		●		●	●			3	1	3	3	
	6 DAY STORAGE			●			●		●		●	●			3	1	3	3	
	7 DRAFTING ROOM				●			●	●		●			●	1	1	3	3	SEE NOTE No 2
	8 STUDENT STORAGE	●				●			●		●		●		3	1	3	3	SEE NOTE No 3
	9 ADULT STORAGE	●				●			●		●		●		2	1	3	3	
	10 CORRIDOR	●				●			●		●		●		3	1	3	1	
	11 DAY SCHOOL LUMB. STOR.	●				●			●		●		●		3	1	3	1	
	12 ADULT STORAGE	●				●			●		●		●		3	1	3	3	
	13 DRAFTING ROOM	●			●			●	●		●		●	●	1	1	3	3	SEE NOTE No 4.

NOTES!

1. EXISTING FLOOR, BASE & CEILING TO REMAIN. CONTRACTOR TO DO PATCHING WHEREVER NECESSARY.
2. CONTRACTOR TO FILL CRACKS & LEVEL EXISTING FLOOR BEFORE LAYING NEW VINYL ASBESTOS FLOOR & BASE. EXISTING ACOUSTILE CEILING TO REMAIN.
3. EXISTING FLOOR, BASE & CEILING TO REMAIN.
4. CONTRACTOR TO REMOVE EXISTING ASPHALT FLOOR & BASE. APPLY CEMENT FINISH TO CONCRETE. FLOOR TO BE LEVEL BEFORE VINYL ASBESTOS FLOOR & BASE IS LAID. STRIP & APPLY ACOUSTILE TO FLAT PORTION OF CEILING.

PAINTING LEGEND

1. WALL PAINT
5. GUARNEL EGGSHELL



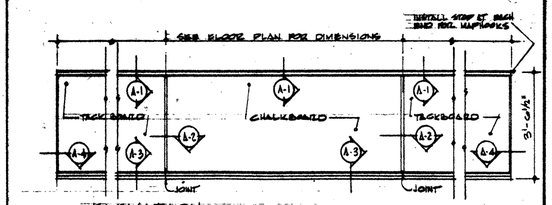
PARTIAL FLOOR PLAN

SCALE 1/4" = 1'-0"

LEGEND

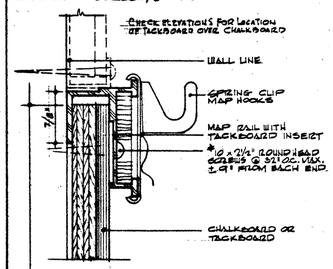
- EXISTING CONCRETE
- NEW CONCRETE
- EXISTING STUD WALL
- NEW STUD WALL

N



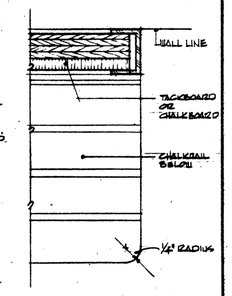
ELEVATION

SCALE 1/2" = 1'-0"



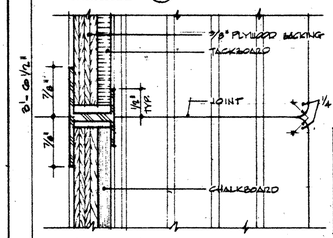
SECTION A-1

FULL SIZE



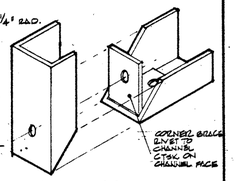
PARTIAL END PLAN A-4

FULL SCALE



SECTION A-2

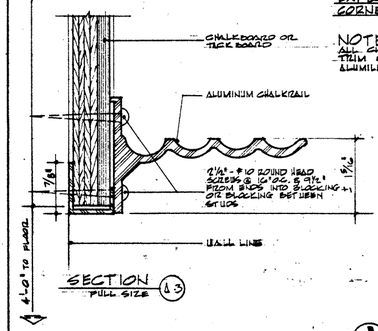
FULL SIZE



EXPLODED VIEW CORNER DETAIL

NO SCALE

NOTE!
ALL CHANNEL TRIM DISPLAY RAIL TRIM & CHALKRAIL TO BE ALUMILITED EXTRUDED ALUMINUM.



SECTION A-3

FULL SIZE

CHALKBOARD & TACKBOARD A1

NOTE!
CHALKRAILS & DISPLAY RAILS TO BE INSTALLED ON ALL CHALKBOARDS & TACKBOARDS.
DO NOT INSTALL CHALKRAIL ON CHALKBOARDS OR TACKBOARDS THAT OCCUR DIRECTLY OVER COUNTER OR COUNTER SPLASH

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
OFFICE OF ARCHITECTURE AND CONSTRUCTION
2315-61
25153
APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
REG. NO. S.E. 798

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
3414 W. 7th STREET - LOS ANGELES 57, CALIF.
REG. NO. E 5609

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
664 S. NORMANDIE ST. - LOS ANGELES 13, CALIF.
REG. NO. M 5680

G. SHURMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
3421 W. SHORT BLVD. - LOS ANGELES 26, CALIF.
REG. NO. C.E. 9183

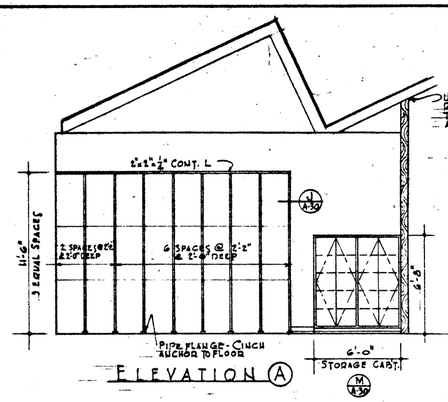
DRAWN
DEC. 1964
APPROVED
DATE
REVISIONS

SHEET TITLE
PARTIAL FLOOR PLAN
EXISTING SHOP BLDG

NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
8600 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE AS NOTED
DRAWN BY P. A. G.
CHECKED BY
SHEET NO. A25 OF 36 SHEETS



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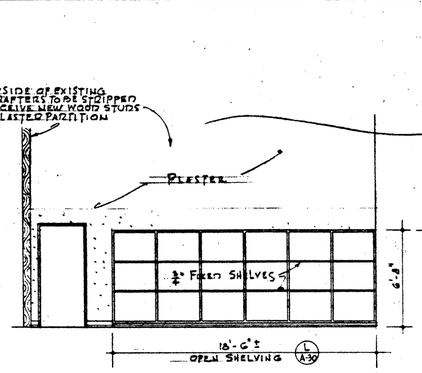

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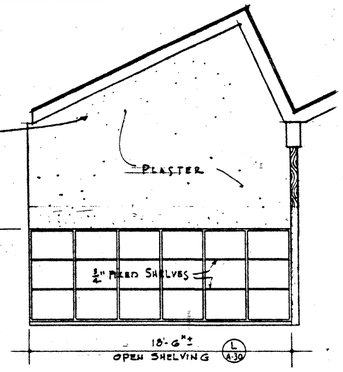

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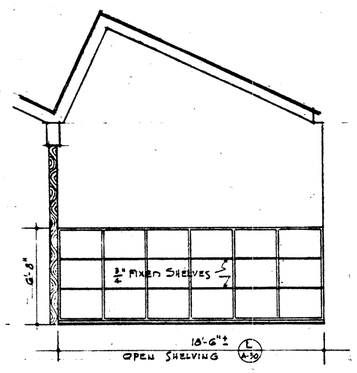

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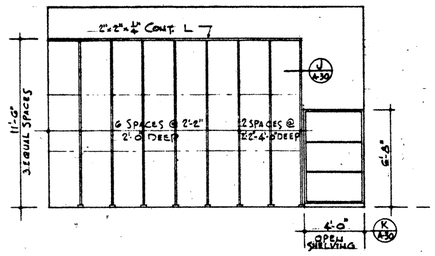

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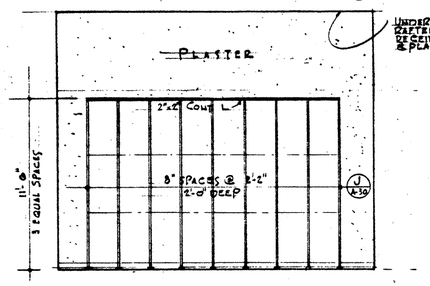

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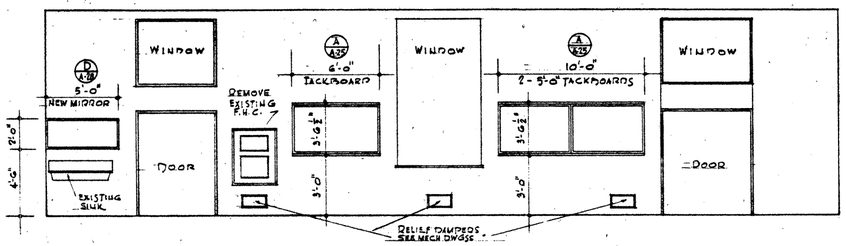

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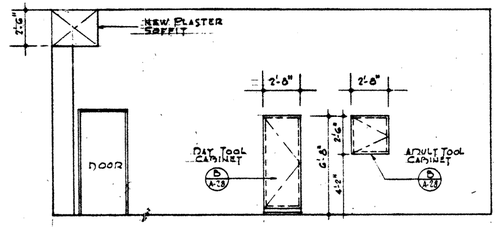

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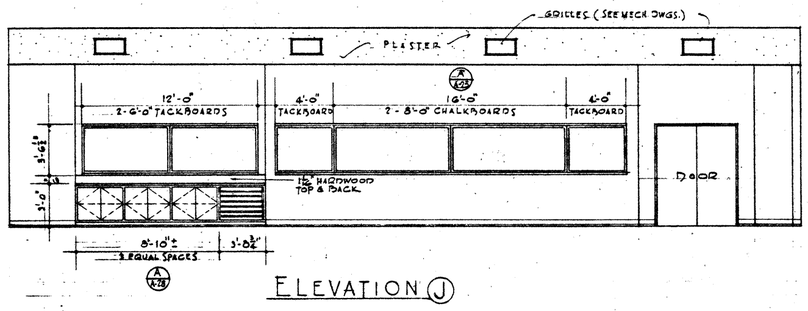

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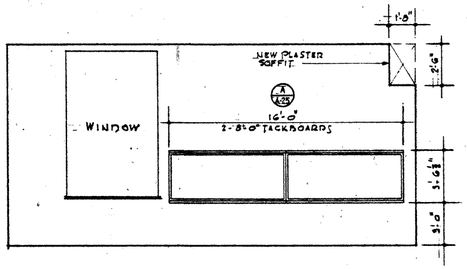

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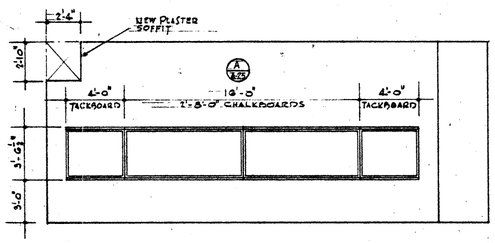

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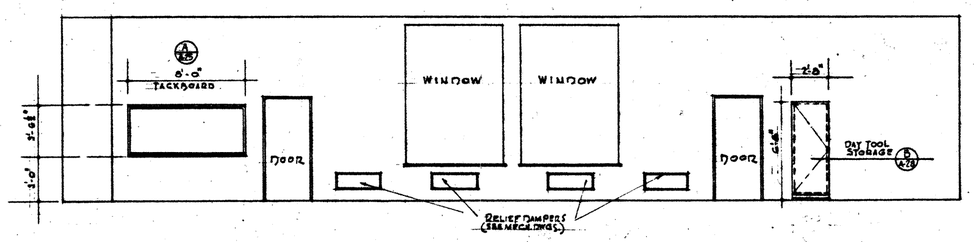

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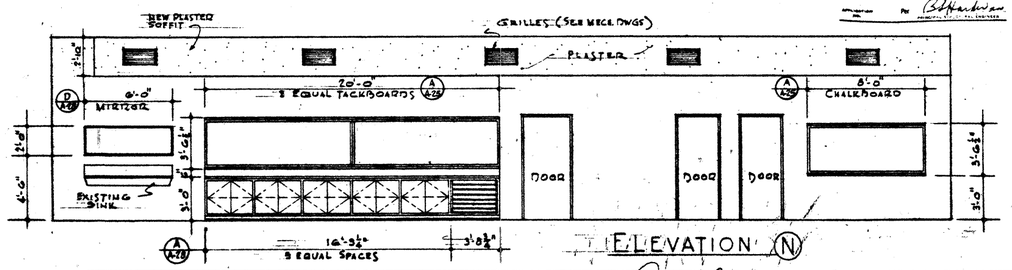


ELEVATION (N)

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS — DIVISION OF ARCHITECTURE
APPLICATION NUMBER 25153 APPROVED DEC 29 1964
APPLICATION NO. 25153 APPROVED DEC 29 1964
By Bill Hardman

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY
DATE

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9000 WILSHIRE BLVD - BEVERLY HILLS, CALIF.
REG. NO. S.E. 799

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET - LOS ANGELES 57, CALIF.
REG. NO. E 5899

STEPHEN T. BERKY
CONSULTING MECHANICAL ENG.
446 S. SPRING ST. - LOS ANGELES 13, CALIF.
REG. NO. M-5880

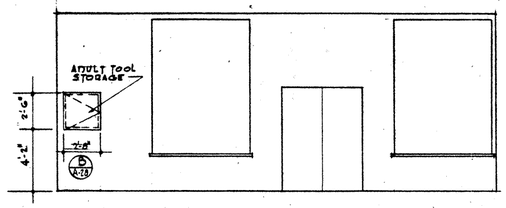
G. SHURTHAM & ASSOCIATES
CONSULTING CIVIL ENGINEERS
9657 WILSHIRE BLVD. - LOS ANGELES 35, CALIF.
REG. NO. C 10,

DATE: DEC. 1964.
APPROVED
DATE
REVISIONS

SHEET TITLE
INTERIOR ELEVATIONS
EXISTING SHOP BLDG
ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING
NORTH HOLLYWOOD HIGH SCHOOL
5000 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT
ALBERT CRIZ A.I.A. INC.
ARCHITECT
9000 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE ¼" = 1'-0"
DRAWN BY B.A.G.
CHECKED BY
SHEET NO. A26 OF 36 SHEETS

8786.24



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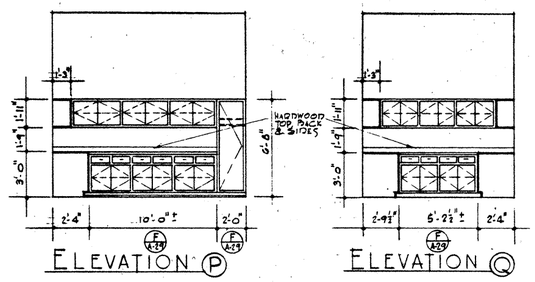
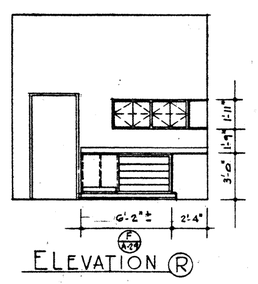


ELEVATION (P)

ELEVATION (Q)



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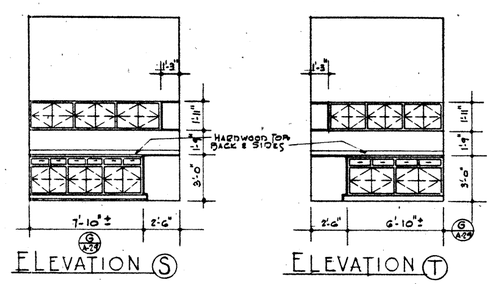
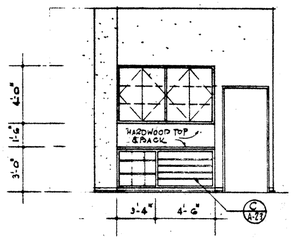


ELEVATION (S)

ELEVATION (T)



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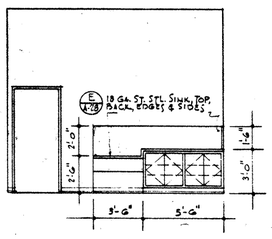

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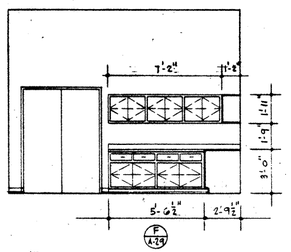

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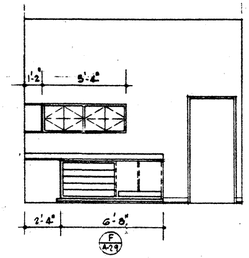

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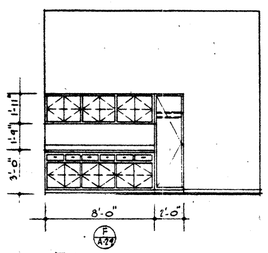

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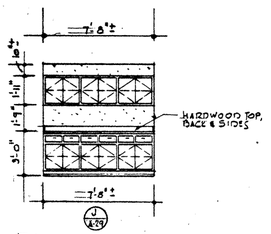

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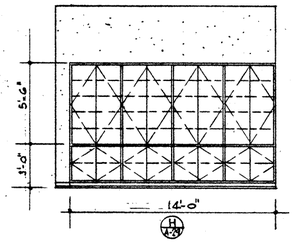


ELEVATION (A-A)

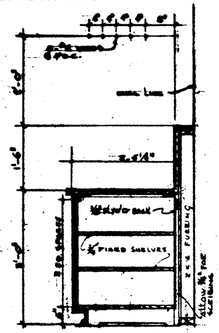
ELEVATION "B-B" SIMILAR (REVERSED)

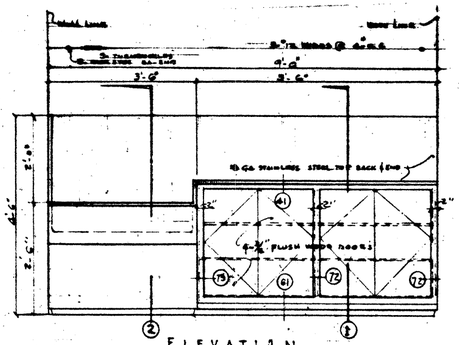
8786.24

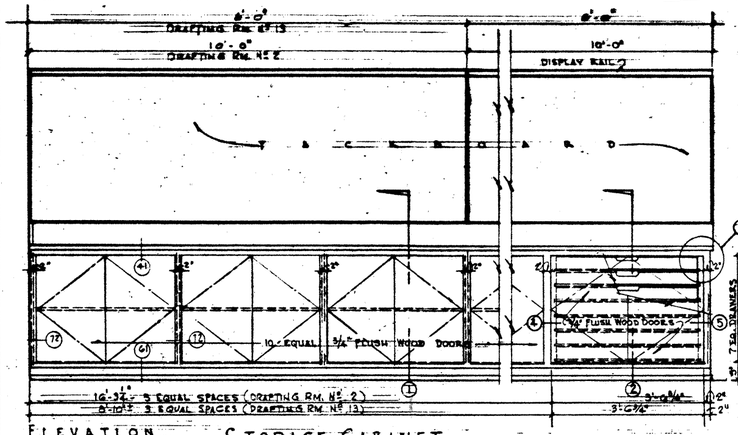
STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
OFFICE OF ARCHITECTURE AND CONSTRUCTION
25154
25153 APPROVED DEC 29 1964

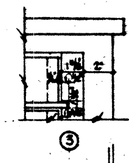
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE APPLICATION NUMBER APPROVED DATE SUPERVISING STRUCTURAL ENGINEER	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE DEC 29 1964 BY	ZORAN E. SHEFFNER STRUCTURAL ENGINEER 9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF. REG. NO. S.E. 795 GARRETT ENGINEERS CONSULTING TECHNICAL ENG. 2614 NORTH STREET - LOS ANGELES 57, CALIF. REG. NO. 6699 STEPHEN T. BERK CONSULTING MECHANICAL ENG. 768 S. SPRING ST. - LOS ANGELES 13, CALIF. REG. NO. M-5880 G. SHUIRMAN & ASSOCIATES CONSULTING ENGINEERS 8605 WILSHIRE BLVD. - LOS ANGELES 36, CALIF. REG. NO. [illegible]	ARCHITECT DATE DEC. 10 64. APPROVED DATE REVISIONS	SHEET TITLE INTERIOR DETAILS EXISTING SHOP BLDG. NORTH HOLLYWOOD HIGH SCHOOL 1101 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA PREPARED FOR THE BOARD OF EDUCATION LOS ANGELES UNIFIED SCHOOL DISTRICT ALBERT CRIZ A.I.A. INC. ARCHITECT 9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.	JOB NO. 6101 SCALE ¼"=1'-0" DRAWN BY B.A.G. CHECKED BY SHEET NO. A27 OF 36 SHEETS

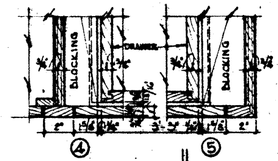
[redacted]

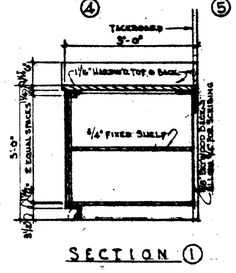


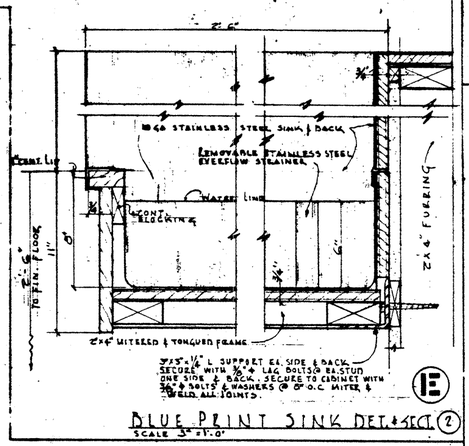


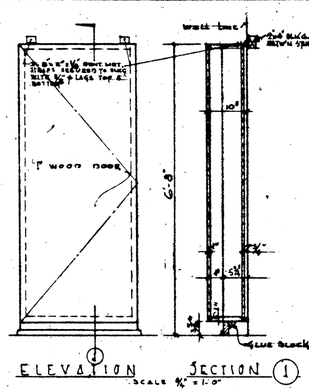


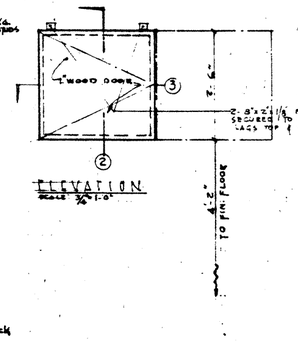


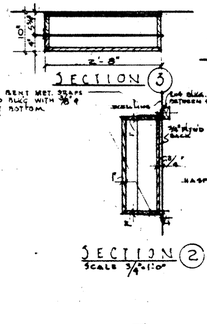


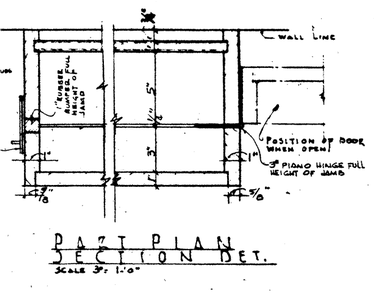




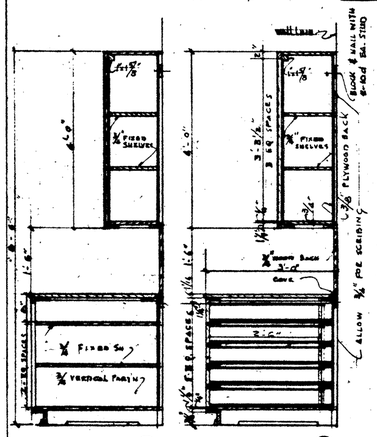


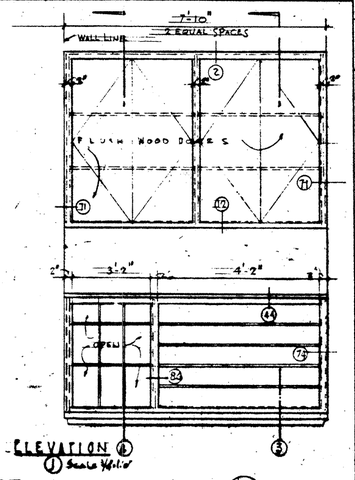




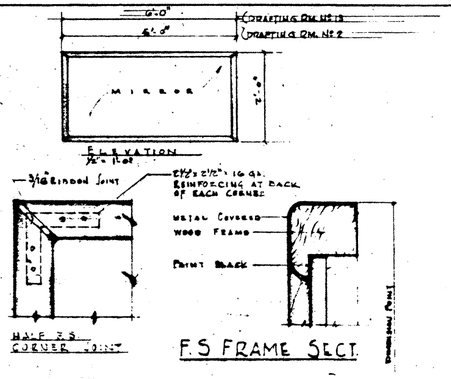


TOOL CABINETS IN DRAFTING ROOM (B)





COUNTER & CABINET (C)



MIRROR DETAIL (D)

8786.24

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY
DATE

ZORIAN E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
REG. NO. S.E.795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET - LOS ANGELES 57, CALIF.
REG. NO. E.5699

STEPHEN T. BERKY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. - LOS ANGELES 13, CALIF.
REG. NO. M.5880

G. SHURMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
5657 WILSHIRE BLVD. - LOS ANGELES 36, CALIF.
REG. NO. C.9683

ARCHITECT
DATE DEC. 1964.
APPROVED
DATE
REVISIONS

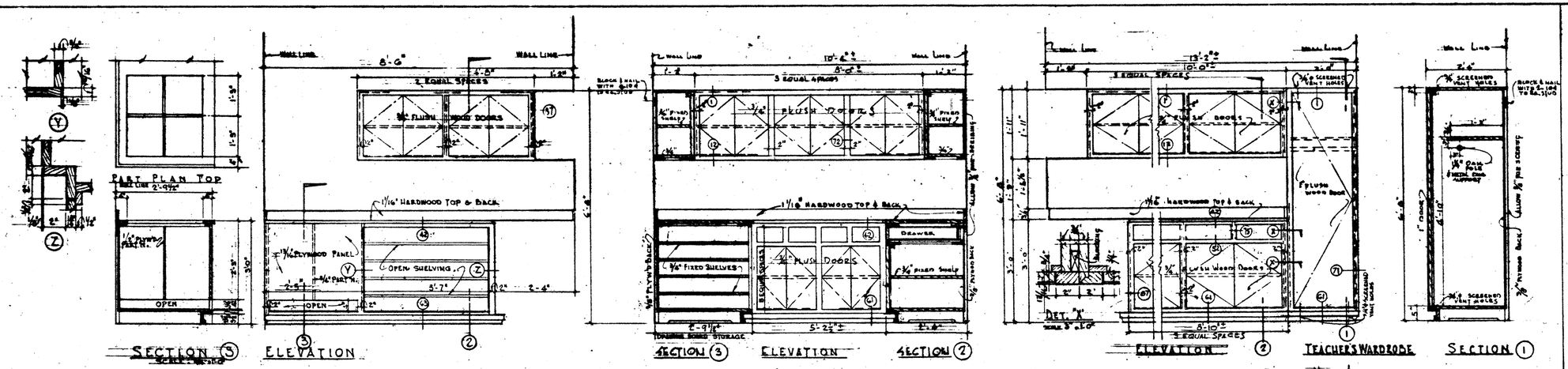
SHEET TITLE
EXISTING SHOP BLDG.
INTERIOR DETAILS

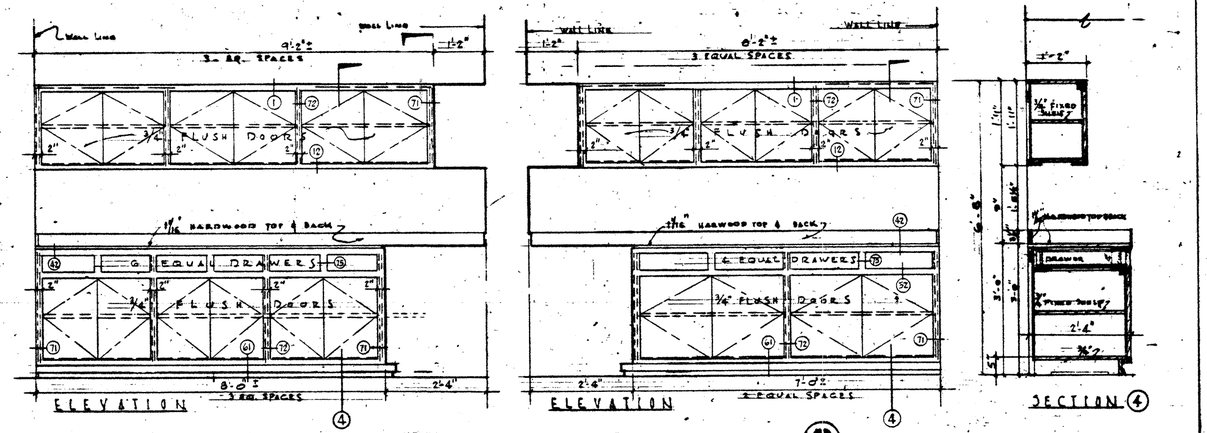
ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

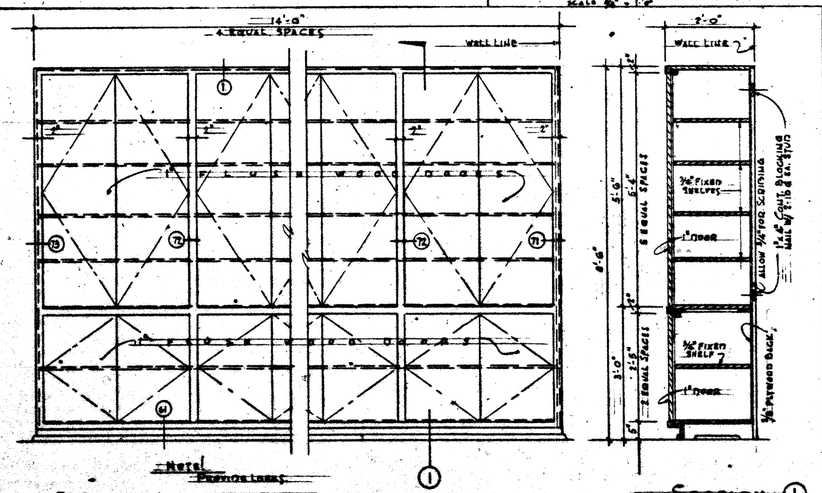
ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

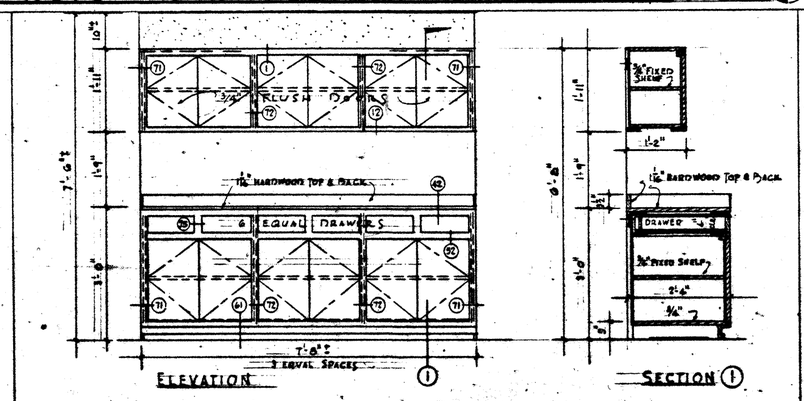
JOB NO. 6101
SCALE
DRAWN BY
CHECKED BY
SHEET NO. A 28

DEPARTMENT OF GENERAL SERVICES
DIVISION OF ARCHITECTURE AND CONSTRUCTION
25153 APPROVED DEC 29 1964









8786.24

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DEC 29 1964

JORDAN E. SHEFFNER
STRUCTURAL ENGINEER
8939 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
REG. NO. S.E.795

GARRETT ENGINEERING
CONSULTING ELECTRICAL ENG.
3614 W. 7th STREET • LOS ANGELES 5, CALIF.
REG. NO. E 5699

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. • LOS ANGELES 13, CALIF.
REG. NO. M 5880

G. SHURIMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
9937 WILSHIRE BLVD. • LOS ANGELES 35, CALIF.
REG. NO. C.E.9983

DATE Dec. 1964

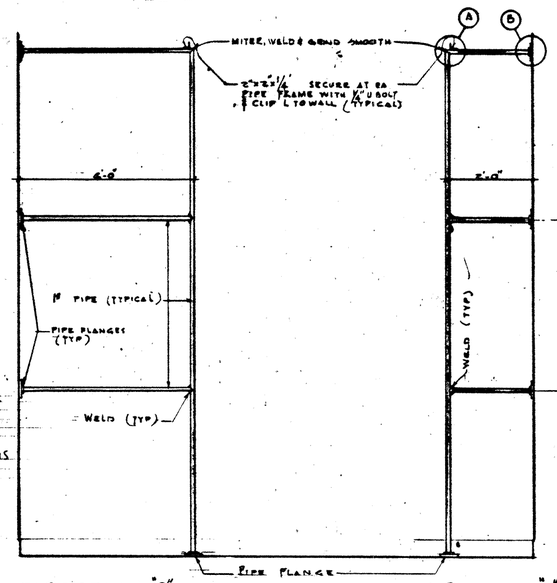
SHEET TITLE
EXISTING SHOP BLDG
INTERIOR DETAILS

ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

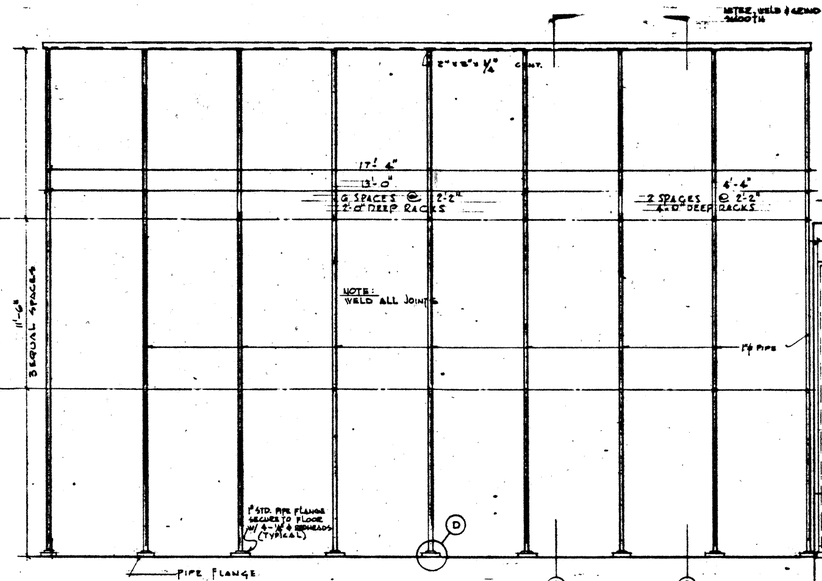
ALBERT CRIZ A.I.A. INC.
ARCHITECT
9200 WILSHIRE BLVD. — BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE
DRAWN BY
CHECKED BY
SHEET NO. A29
36 SHEETS

NOTE!
IN DAY SCHOOL LUMBER STORAGE ROOM Nº11 - SOUTH WALL THESE ARE 6 SECTION 2'-2" WIDE, 2'-0" DEEP.
IN ADULT STORAGE ROOM Nº 9 THERE ARE 2 SECTIONS 2'-2" WIDE & 2'-0" DEEP AND 6 SECTIONS 2'-2" WIDE 2'-0" DEEP. DETAILS ARE THE SAME.



SECTION "2"



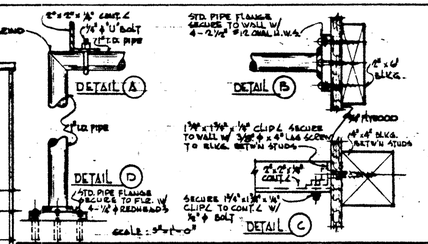
SECTION "1"

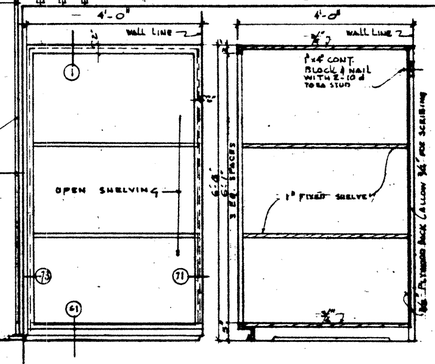
ELEVATION

DAY SCHOOL LUMBER STORAGE (ROOM Nº 11)

SCALE 1/4" = 1'-0"

J



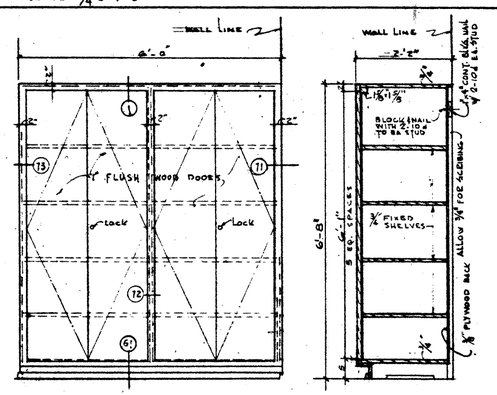


ELEVATION

SECTION

OPEN SHELVING (DAY SCHOOL LUMBER STOR. RM. Nº 11)

K



ELEVATION

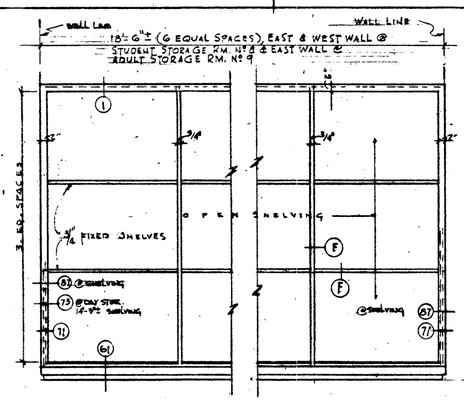
STORAGE CAB.

STORAGE CABINET

ADULT STORAGE ROOM Nº 9 SCALE 3/4"=1'-0"

SECTION

M

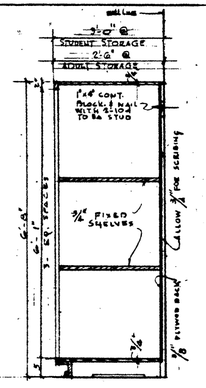


ELEVATION

OPEN SHELVING

ADULT & STUDENT STORAGE SCALE 3/4"=1'-0"

L



SECTION

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
DIVISION OF ARCHITECTURE AND CONSTRUCTION
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE
BY

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORIAN E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
REGL NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET - LOS ANGELES 57, CALIF.
REGL NO. E 5609

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. - LOS ANGELES 13, CALIF.
REGL NO. M 5880

G. SHURMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
3657 WILSHIRE BLVD. - LOS ANGELES 36, CALIF.
REGL NO. C.E. 9683

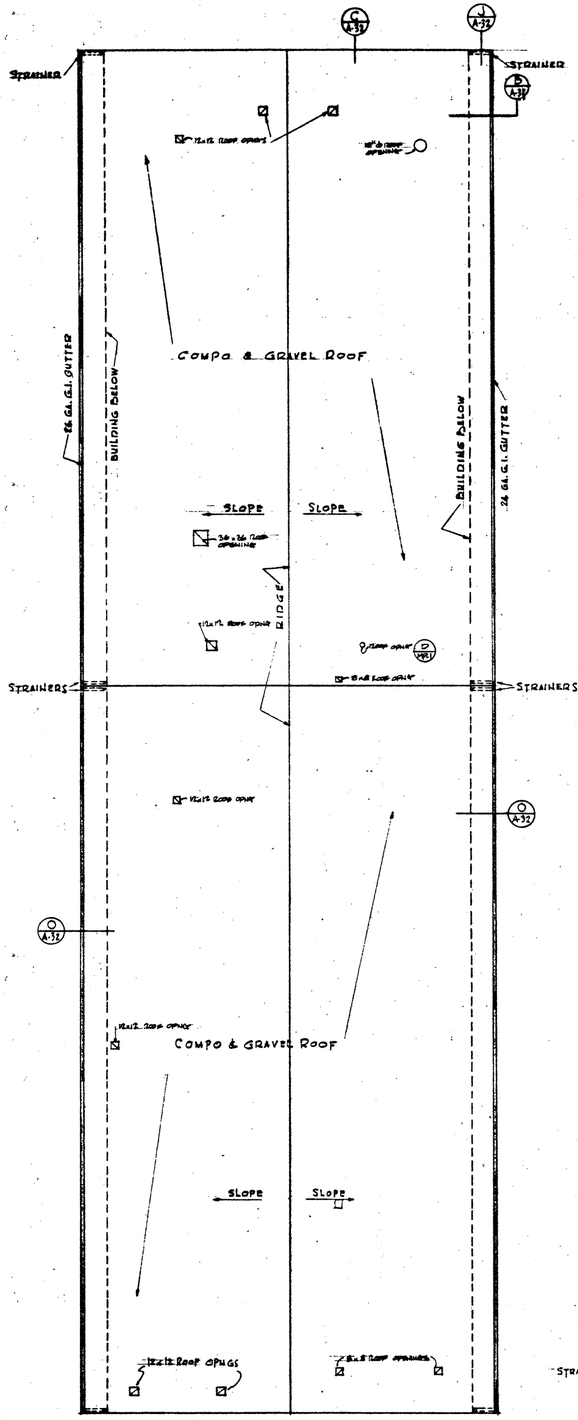
RECOMMENDED
DATE DEC. 10/64
APPROVED
STATE
REVISIONS

SHEET TITLE
EXISTING SHOP BLDG.
INTERIOR DETAILS

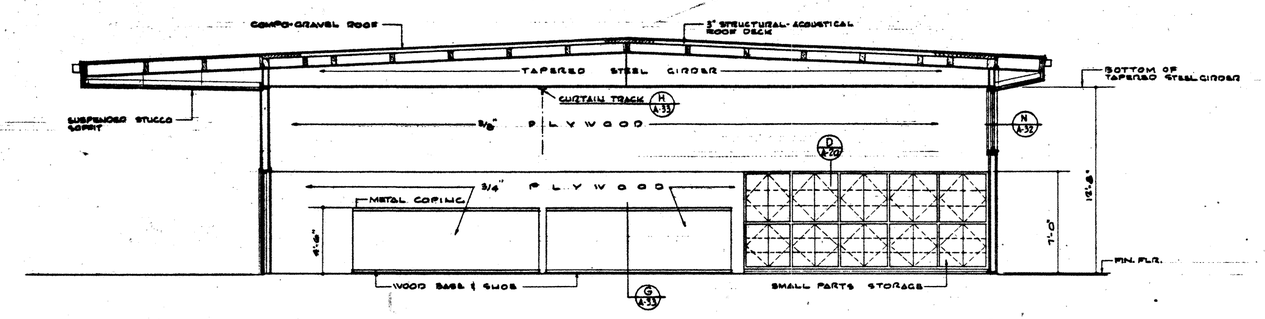
ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR
NORTH HOLLYWOOD HIGH SCHOOL
5231 ORANGE AVENUE NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

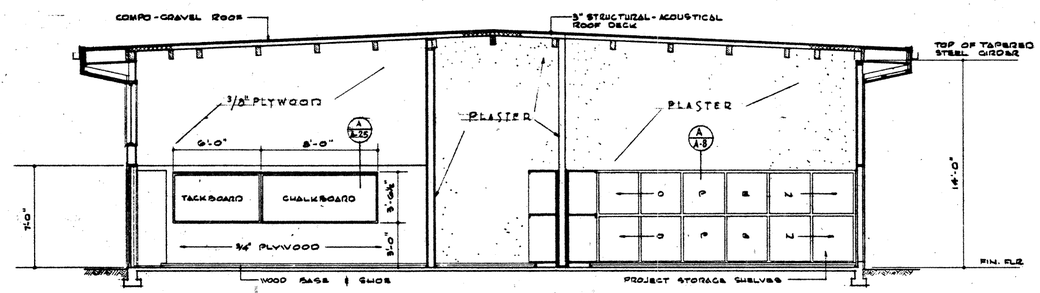
JOB NO. 6101
SCALE
DRAWN BY
CHECKED BY
SHEET NO A30
OF 36 SHEETS



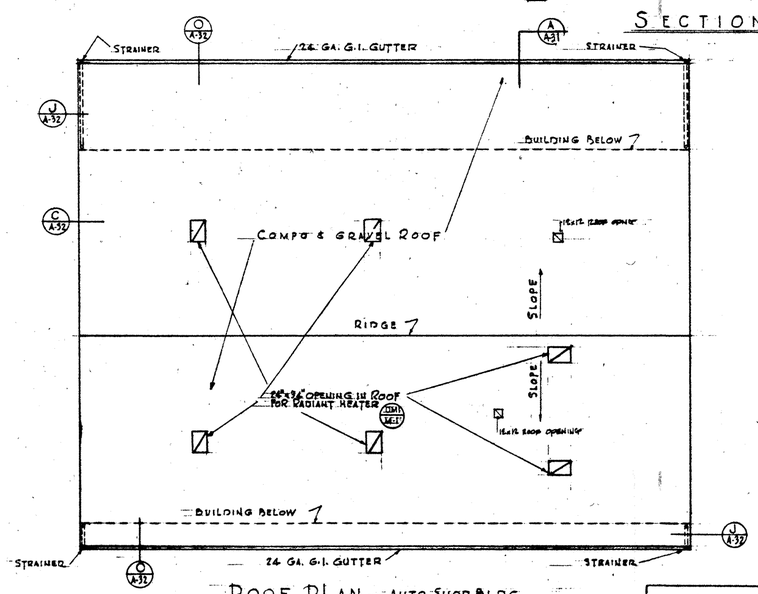
ROOF PLAN — NEW SHOP BLDG.
SCALE 1/8"=1'-0"



SECTION @ AUTO SHOP (A)
SCALE 1/4"=1'-0"



SECTION @ METAL SHOP (B)
SCALE 1/4"=1'-0"



ROOF PLAN — AUTO SHOP BLDG.
SCALE 1/8"=1'-0"

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS — DIVISION OF ARCHITECTURE
25154
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
5 W. 7th STREET • LOS ANGELES 57, CALIF.
TEL. 10.8.5679

STEPHEN T. JERKY
CONSULTING MECHANICAL ENG.
LOS ANGELES 13, CALIF.

G. SHURMAN & ASSOCIATES
CONSULTING ENGINEERS
LOS ANGELES 36, CALIF.

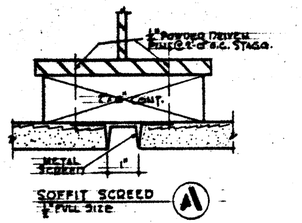
ARCHITECT
DATE DEC. 1964.
APPROVED
DATE
REVISIONS

SHEET TITLE
ROOF PLANS & SECTIONS

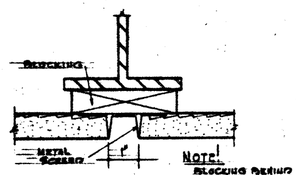
NORTH HOLLYWOOD HIGH SCHOOL
SIXTH STREET AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

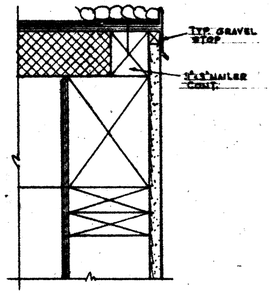
JOB NO. 6101
SCALE AS NOTED
DRAWN BY MS
CHECKED BY
SHEET NO. A31
OF 36 SHEETS



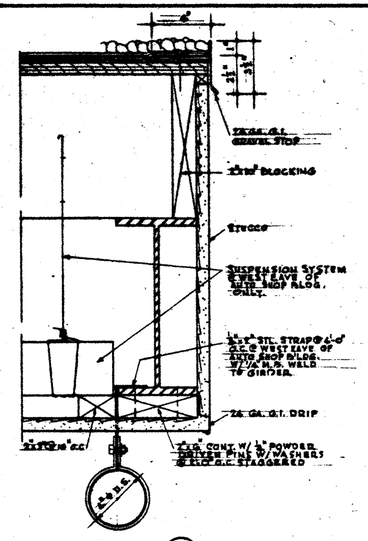
SOFFIT SCREED — A
1" FULL SIZE



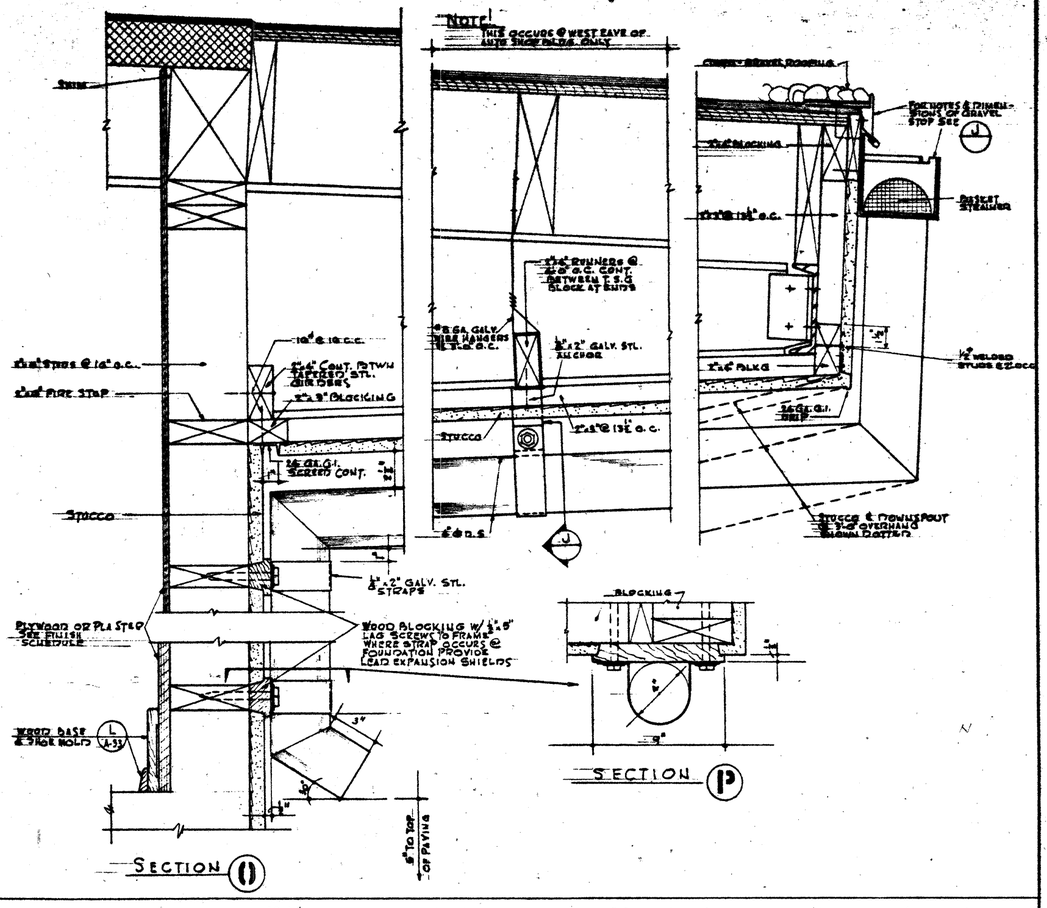
WALL SCREED — B
1" FULL SIZE



GRAVEL STOP @ N & S WALLS — C
3"=1'-0"

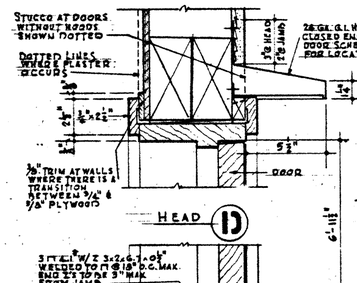


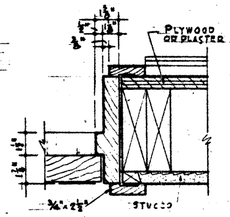
RAKE — J
3"=1'-0"



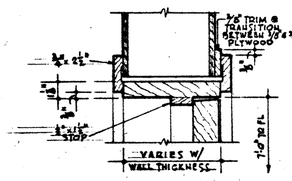
SECTION — P

SECTION — O

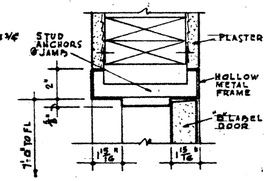




TYPICAL EXTERIOR DOOR
3"=1'-0"



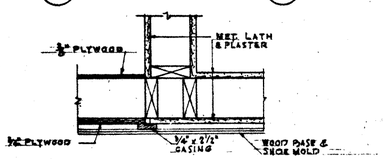
JAMB & HEAD



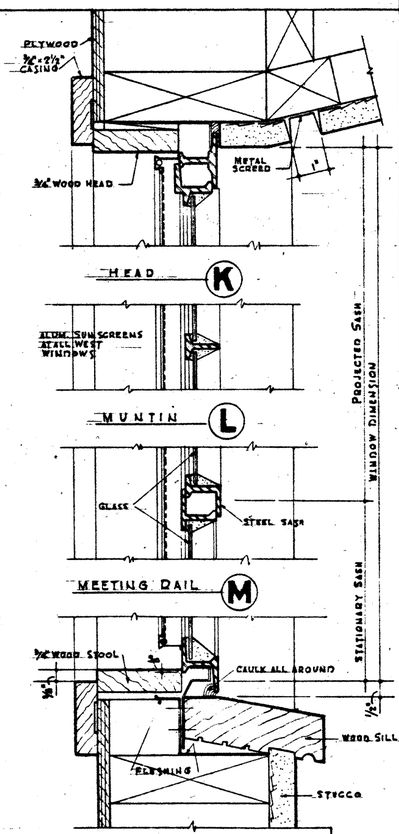
JAMB & HEAD

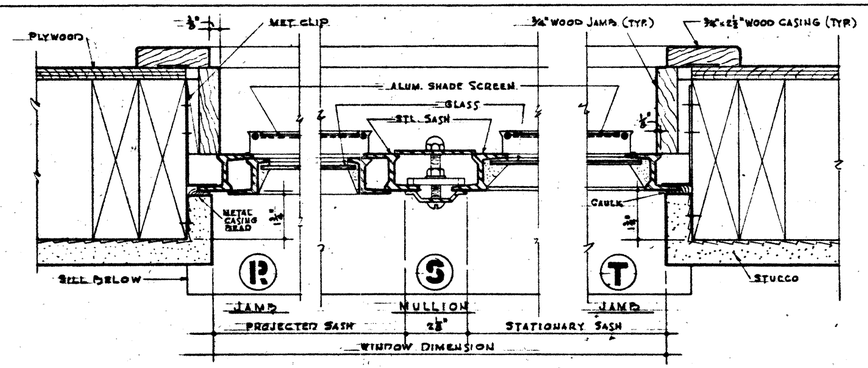
TYP. INTERIOR DOOR — G

"B" LABEL DOOR — H



WALL INTERSECTION
SCALE 1 1/2"=1'-0"





STEEL WINDOWS
1/4" FULL SIZE

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS — DIVISION OF ARCHITECTURE
APPLICATION NUMBER 25153 APPROVED DEC 29 1964
BY Edward [illegible]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER — APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY
DATE

ZORAN E. SHEFFNER
STRUCTURAL ENGINEER
9828 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

BARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET • LOS ANGELES 57, CALIF.
REG. NO. E 3099

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. • LOS ANGELES 13, CALIF.
REG. NO. M 5980

G. SHUMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
5657 WILSHIRE BLVD. • LOS ANGELES 36, CALIF.
REG. NO. C.E. 9683

DATE
DRAWN
APPROVED
DATE
REVISIONS

SHEET TITLE
MISCELLANEOUS DETAILS

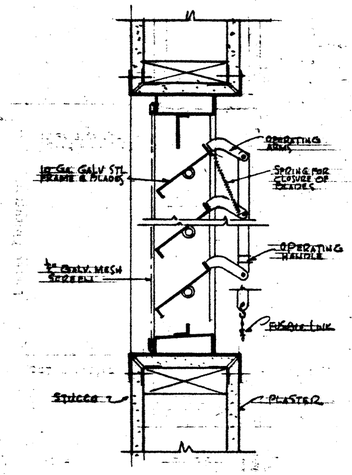
JOB NO. 6701
SCALE AS NOTED
DRAWN BY Th. A. G.
CHECKED BY

ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
8000 WILSHIRE BLVD. — BEVERLY HILLS, CALIF.

SHEET NO. A.32
OF 36 SHEETS

[redacted]

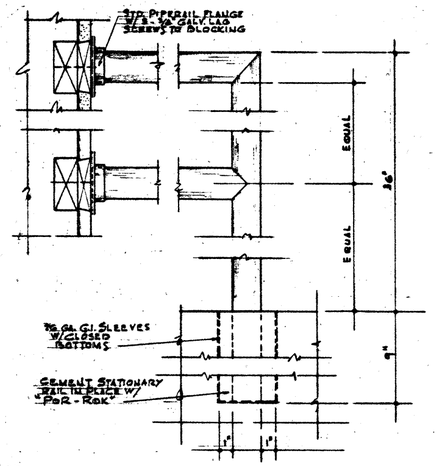


NOTE: CONTRACTOR TO FURNISH SHOP DRAWING OF LOUVER BEFORE INSTALLATION

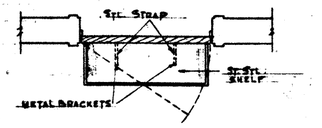
ADJ. LOUVER W/ FUSIBLE LINK

SCALE 3"=1'-0"

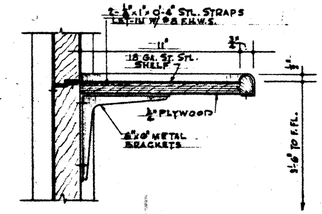
C



PIPE HANDRAILS D

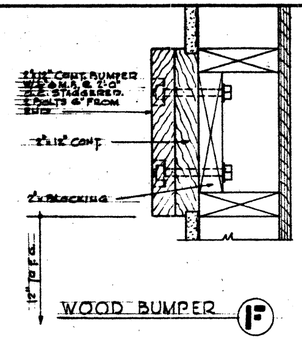


PLAN - SECTION

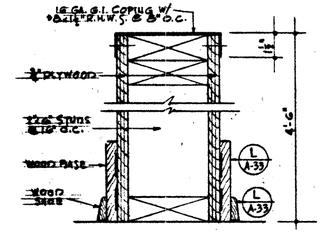


SECTION

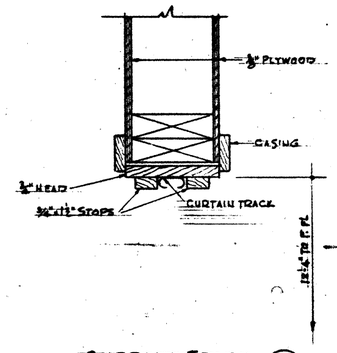
DUTCH DOOR E



WOOD BUMPER F



4'-6" PARTITION G



CURTAIN TRACK H

F.S. DETAIL OF WOOD BASE L

ELEVATION

LADDER DETAIL SCALE 1½"=1'-0" M

HEAD N

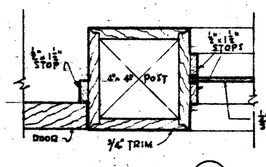
JAMB O

ROLLING STEEL DOOR DETAIL

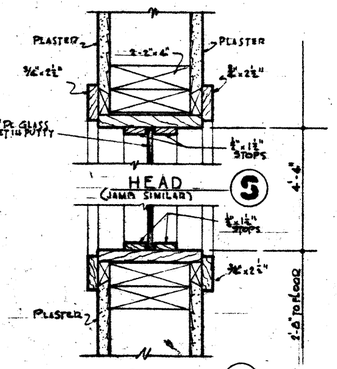
SCALE 3"=1'-0"

DETAIL P

SCALE 3"=1'-0"



JAMB R



SILL T

PARTITION WINDOW DETAILS - SCALE 3"=1'-0"

ROOMS NO 1 & 2 (ELECTRIC SHOP)

8786.24

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPLICATION APPROVED

DATE

SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAN E. SHEFFNER
STRUCTURAL ENGINEER
9200 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2814 W. 7th STREET • LOS ANGELES 57, CALIF.
REG. NO. E 5688

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. • LOS ANGELES 13, CALIF.
REG. NO. M 3660

G. SHURMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
5657 WILSHIRE BLVD. • LOS ANGELES 36, CALIF.
REG. NO. C.E. 9461

DESIGNED
DRAWN
CHECKED
Dec. 1964.
APPROVED
DATE
REVISIONS

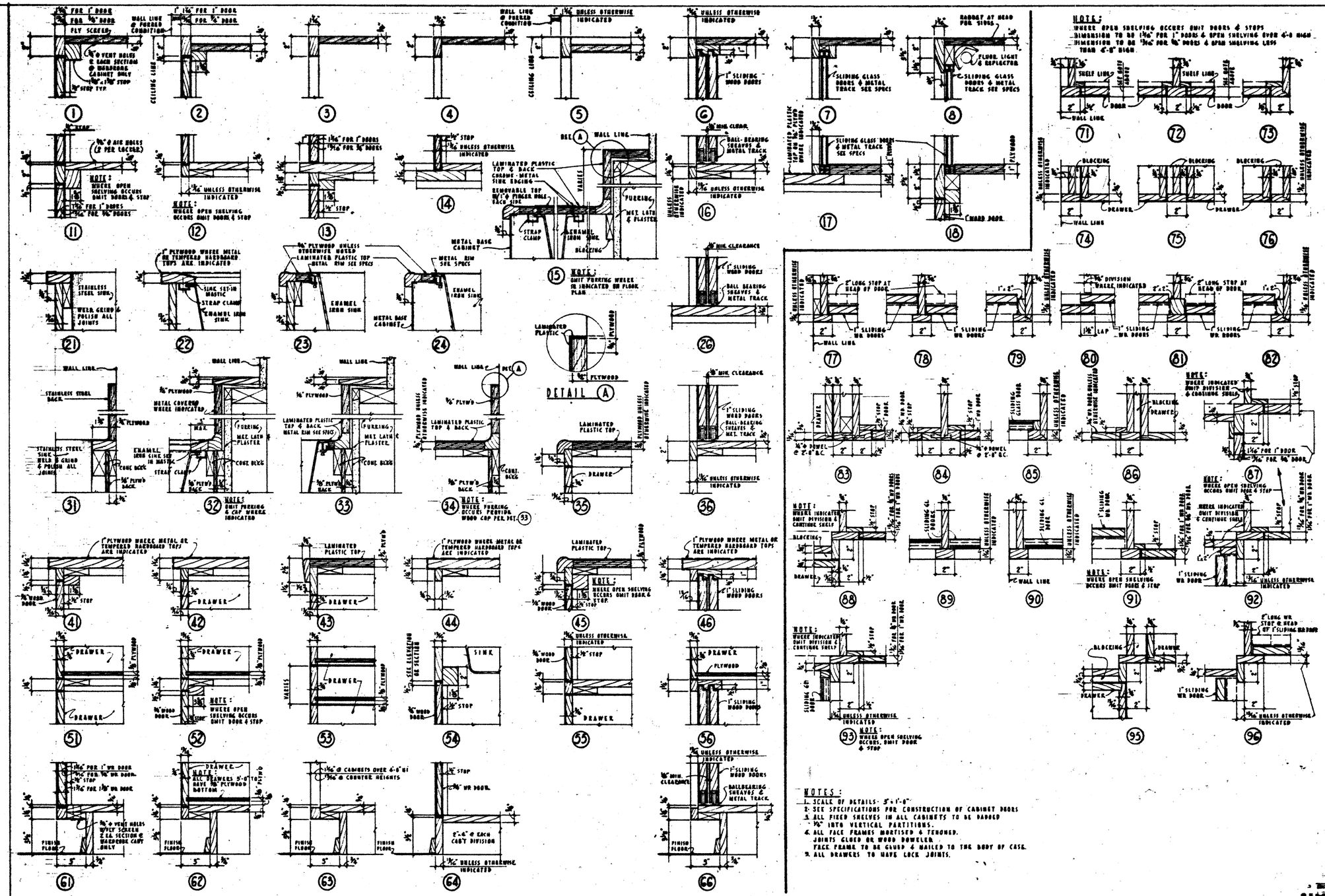
SHEET TITLE
MISCELLANEOUS DETAILS

ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING HIGH SCHOOL
NORTH HOLLYWOOD HIGH SCHOOL
5005 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
8000 WILSHIRE BLVD. — BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE
DRAWN BY
CHECKED BY
SHEET NO. A 33 OF 36 SHEETS

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS
OFFICE OF ARCHITECTURE AND CONSTRUCTION
APPLICATION NO. 25153
APPROVED DEC 29 1964



NOTES:

1. SCALE OF DETAILS: 3" = 1'-0"
2. SEE SPECIFICATIONS FOR CONSTRUCTION OF CABINET DOORS
3. ALL FIXED SHELVES IN ALL CABINETS TO BE DADDED 1/4" INTO VERTICAL PARTITIONS.
4. ALL FACE FRAMES MORTISED & TENONED. JOINTS GLUED OR WOOD DOWELED. FACE FRAME TO BE GLUED & NAILED TO THE BODY OF CASE.
5. ALL DRAWERS TO HAVE LOCK JOINTS.

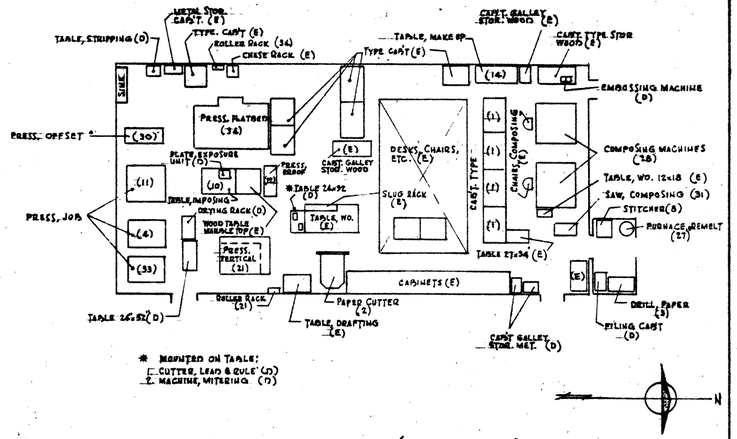
STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
OFFICE OF ARCHITECTURE AND CONSTRUCTION
85134
25153 APPROVED DEC 29 1964
APPLICATION NO. — FOR — PROJECT STRUCTURAL ENGINEER

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE APPLICATION NUMBER — APPROVED — DATE SUPERVISING STRUCTURAL ENGINEER	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE DEC 29 1964 BY [signature] DATE	ZORAH E. SHEFFNER STRUCTURAL ENGINEER 9808 WILSHIRE BLVD. • BEVERLY HILLS, CALIF. REG. NO. S.E-795 GARRETT ENGINEERS CONSULTING ELECTRICAL ENG. 2614 W. 7th STREET • LOS ANGELES 57, CALIF. REG. NO. E-5899 STEPHEN T. BERKY CONSULTING MECHANICAL ENG. 465 S. SPRING ST. • LOS ANGELES 13, CALIF. REG. NO. M-5890 G. SHUIRMAN & ASSOCIATES CONSULTING CIVIL ENGINEERS [illegible]	ARCHITECT [signature] DATE DEC. 1964 APPROVED DATE REVISIONS	SHEET TITLE CASEWORK TYPICAL DETAILS ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR NORTH HOLLYWOOD HIGH SCHOOL 6201 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA PREPARED FOR THE BOARD OF EDUCATION LOS ANGELES UNIFIED SCHOOL DISTRICT ALBERT CRIZ A.I.A. INC. ARCHITECT 9808 WILSHIRE BLVD. — BEVERLY HILLS, CALIF.	JOB NO. 6101 SCALE DRAWN BY CHECKED BY SHEET NO. A34 OF 86 SHEETS

8786.24

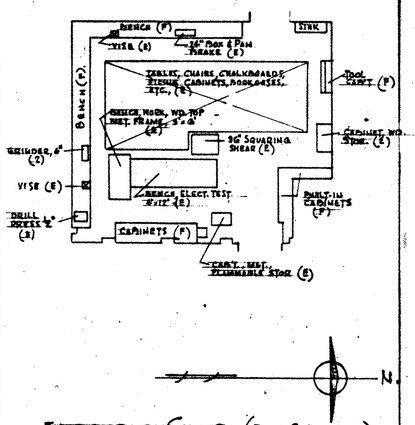
[redacted].24

35



GRAPHIC ARTS (EXISTING)

No Scale

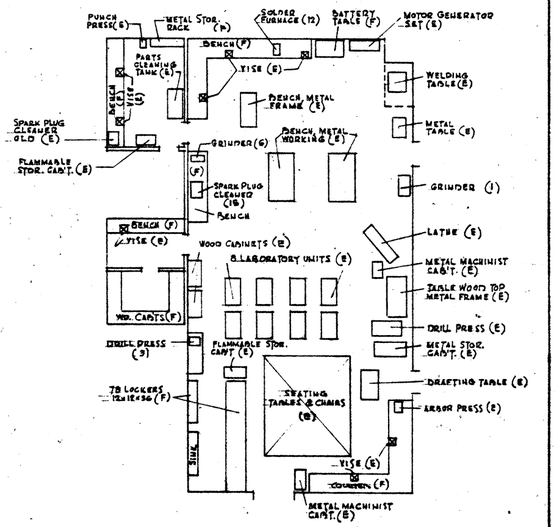


ELECTRIC SHOP (EXISTING)

No Scale

NOTE

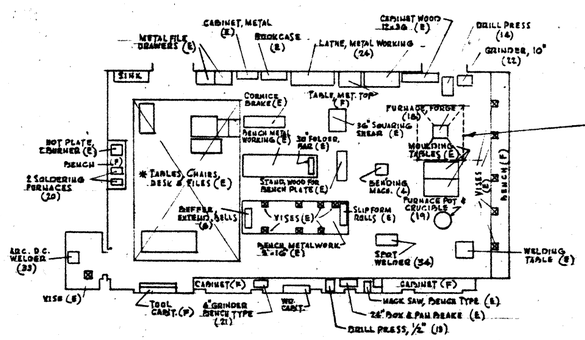
FOR DISPOSITION OF EXISTING EQUIPMENT SEE NOTE SCHEDULE ON SHT. A-4



AUTO SHOP (EXISTING)

No Scale

N



METAL SHOP (EXISTING)

No Scale

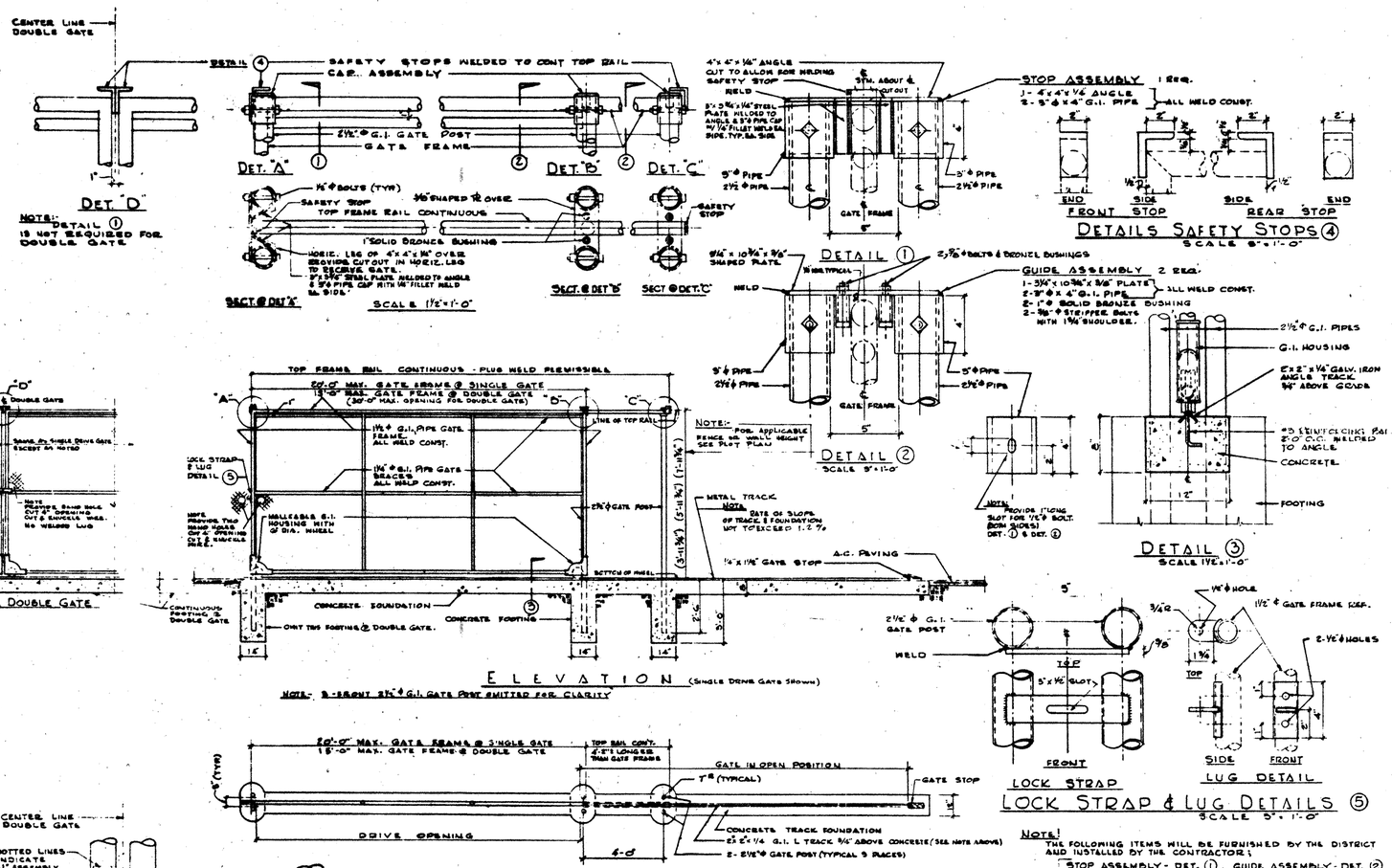
* 1 FILING CABINETS, 4 DRAWER LEGAL
1 DESK, TEACHERS
4 TABLET ARM CHAIRS
16 CHAIRS, 18"
1 TABLE, 30x 72"
2 TABLE, 24x 72

N

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — DIVISION OF ARCHITECTURE AND CONSTRUCTION
25153 APPROVED DEC 29 1964
for Bob Harder

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE APPLICATION NUMBER — APPROVED — DATE — SUPERVISING STRUCTURAL ENGINEER	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE DEC 29 1964 BY	ZORAM E. SHEFFNER STRUCTURAL ENGINEER 9800 WILSHIRE BLVD. • BEVERLY HILLS, CALIF. REG. NO. S.E 795 GARRETT ENGINEERS CONSULTING ELECTRICAL ENG. 2614 W. 7th STREET • LOS ANGELES 57, CALIF. REG. NO. E 5688 STEPHEN T. BERRY CONSULTING MECHANICAL ENG. 308 S. SPRING ST. • LOS ANGELES 13, CALIF. REG. NO. M 5880 G. SHUMAN & ASSOCIATES CONSULTING CIVIL ENGINEERS 5670 WILSHIRE BLVD. • LOS ANGELES 36, CALIF. REG. NO. C 5663	DRAWN CHECKED APPROVED DATE REVISIONS	SHEET TITLE EXISTING EQUIPMENT LAYOUT ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDINGS FOR NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA PREPARED FOR THE BOARD OF EDUCATION LOS ANGELES UNIFIED SCHOOL DISTRICT ALBERT CRIZ A.I.A. INC. ARCHITECT 8383 WILSHIRE BLVD. BEVERLY HILLS, CALIF.	JOB NO. 6706 SCALE No Scale DRAWN BY R.A.G. CHECKED BY SHEET NO. A.35 OF 36 SHEETS

8786.24



NOTE!
THE FOLLOWING ITEMS WILL BE FURNISHED BY THE DISTRICT AND INSTALLED BY THE CONTRACTOR:

SINGLE DRIVE GATE — STOP ASSEMBLY - DET. 2, GUIDE ASSEMBLY - DET. 2, SAFETY STOPS - DET. 4, LOCK STRAP & LUG - DET 5 & MALLEABLE G.I. HOUSING WITH 6" DIA. WHEEL.

DOUBLE DRIVE GATE — GUIDE ASSEMBLY - DET. 2, SAFETY STOPS - DET. 4, DOUBLE GATE LOCKING DEVICE - DET. 6 & MALLEABLE G.I. HOUSING WITH 6" DIA. WHEEL.

SINGLE DRIVE GATE SHOWN & NOTED

DOUBLE DRIVE GATE SAME & OPPOSITE HAND EXCEPT AS SHOWN & NOTED

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER — APPROVED — DATE — SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE

ZORAM E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
REG. NO. S.E.799

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET - LOS ANGELES 57, CALIF.
REG. NO. E 5698

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. - LOS ANGELES 13, CALIF.
REG. NO. M-5880

G. SHURMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
5657 WILSHIRE BLVD. - LOS ANGELES 36, CALIF.
REG. NO. C-6983

DATE: DEC 1964
APPROVED:
DATE:
REVISIONS

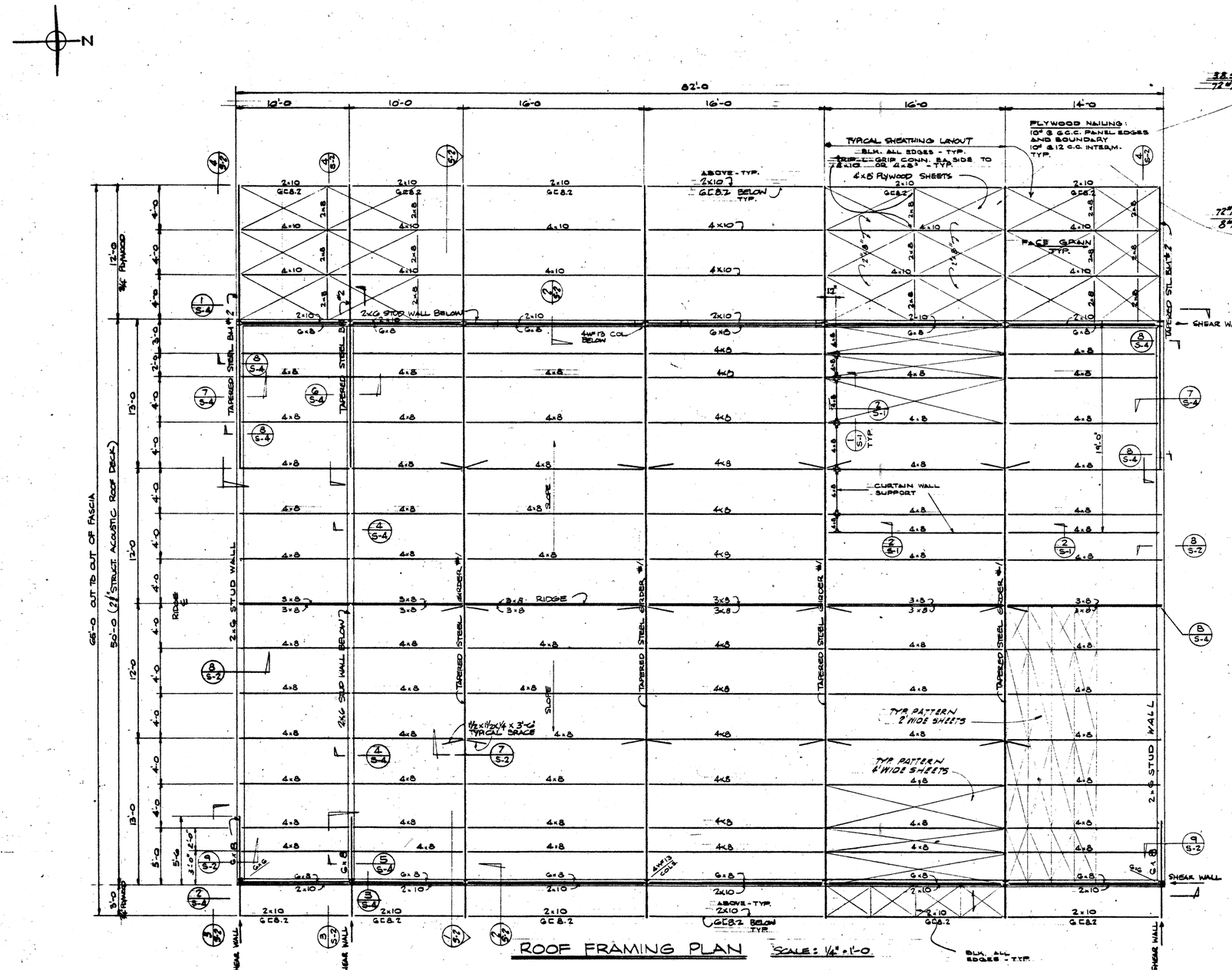
SHEET TITLE: SLIDING GATE

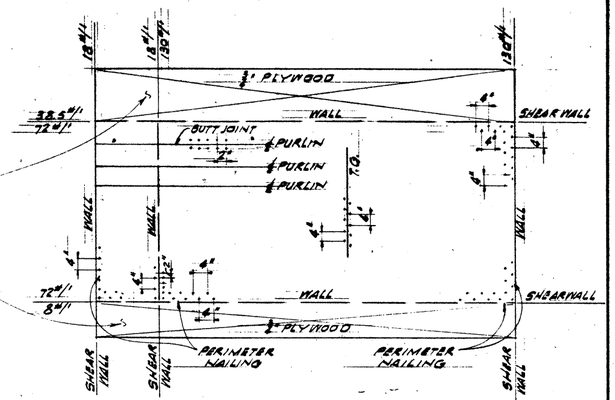
NEW CAFETERIA AND STUDENT STORE BUILDING FOR
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9595 WILSHIRE BLVD. — BEVERLY HILLS, CALIF.

JOB NO. 6701
SCALE AS NOTED
DRAWN BY:
CHECKED BY:
SHEET NO. A.16 OF 16 SHTS.

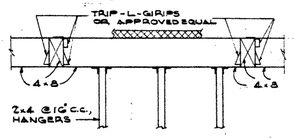
8786.24



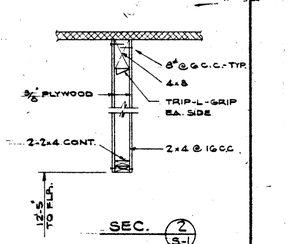


ROOF DECKING NAILING SCHEDULE

1. ROOF DECKING PARALLEL TO PURLINS
2. NAILS TO BE "9 x 4" CORK NAILS.
3. NAILS SHALL CENTER 1" FROM EDGE OF DECKING & 3/4" FROM EDGE OF WOOD.
4. JOINTS CENTERED ON PURLINS.



SEC. 1/S-1
SCALE: 3/4" = 1'-0"



SEC. 2/S-1
SCALE: 3/4" = 1'-0"

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS — DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

ZOLMAN E. STEPHENS — STRUCTURAL ENGINEER — 9744 WILSHIRE BLVD. BEVERLY HILLS, CALIF. — REG. NO. S-1795
GARRETT ENGINEERS — CONSULTING MECHANICAL ENG. — 3435 WILSHIRE BLVD. LOS ANGELES 57, CALIF. — REG. NO. M-2577
STEPHEN F. BERKY — CONSULTING MECHANICAL ENG. — 408 S. SPRING ST. LOS ANGELES 13, CALIF. — REG. NO. M-11982
G. SHURMAN & ASSOCIATES — STRUCTURAL CIVIL ENGINEERS — 3435 WILSHIRE BLVD. LOS ANGELES 5, CALIF. — REG. NO. S-2177

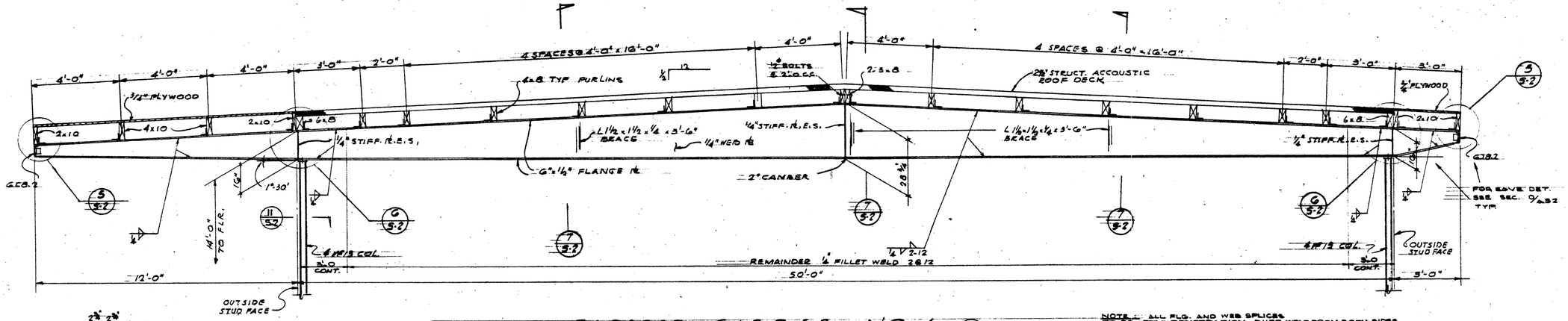
Approved: Albert C. Criz
DATE: DEC. 1964.
APPROVED
DATE
REVISIONS

SHEET TITLE: ROOF FRAMING PLAN & DET'S. AUTO SHOP
NORTH HOLLYWOOD HIGH SCHOOL — NEW VINELAND AVENUE — NORTH HOLLYWOOD, CALIFORNIA
BOARD OF EDUCATION
ALBERT CRIZ A.I.A. INC. — ARCHITECT — 8606 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE 1/4" - 1'-0"
DRAWN BY A.G.P.
CHECKED BY
SHEET NO. S1 OF 10 SHEETS

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS — DIVISION OF ARCHITECTURE
~~2515~~ 25153 APPROVED DEC 29 1964
APPLICATION NO. FOR Robert Hardison

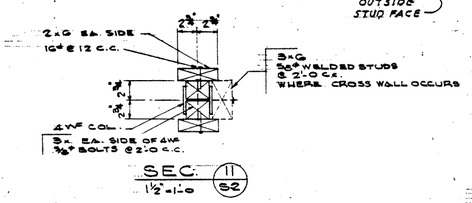
8786.24



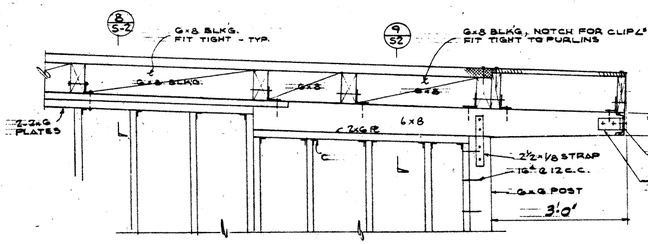
TAPERED GIRDER NO. 1

1/2" = 1'-0" (1/S-2)

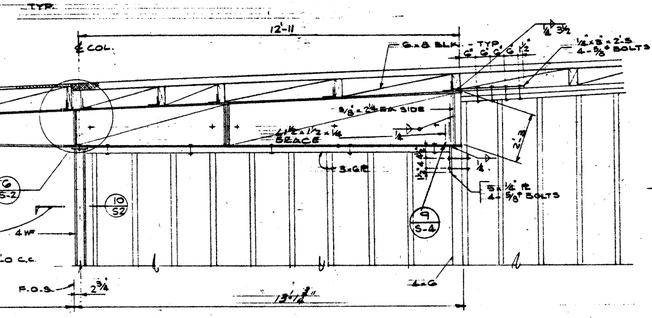
NOTE: ALL FLG. AND WEB SPLICES TO BE FULL PENETRATION BUTT WELD FROM BOTH SIDES TYP.



SEC. (11/S2)
1 1/2" = 1'-0



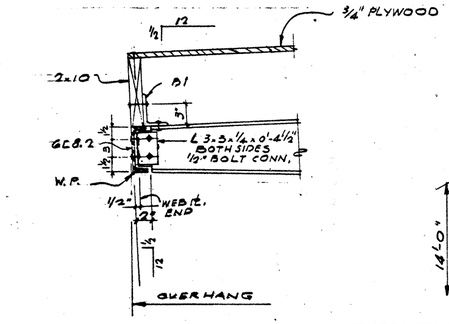
SECTION (3/S-2)
3/8" = 1'-0"



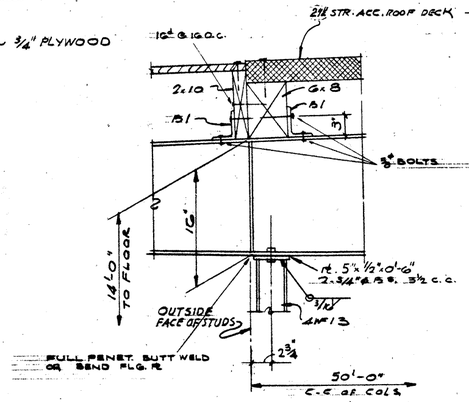
SEC. (10/S2)
1 1/2" = 1'-0"

TAPERED GIRDER NO. 2

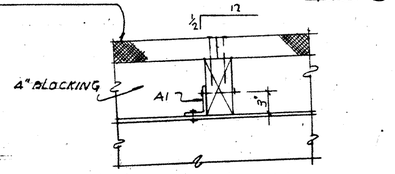
1/2" = 1'-0" (4/S-2)



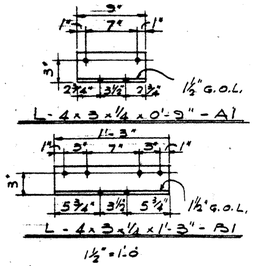
SECTION (2/S-2)
1 1/2" = 1'-0"



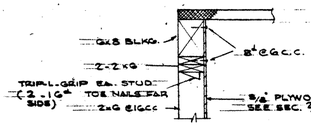
DETAIL (6/S-2)
1 1/2" = 1'-0"



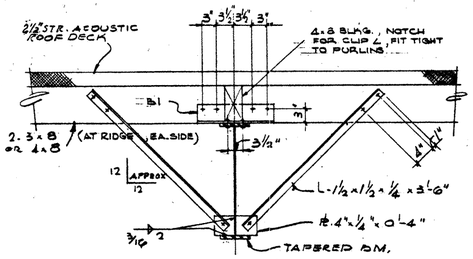
TYPICAL PURLIN CONN.
1 1/2" = 1'-0"



1 1/2" = 1'-0"

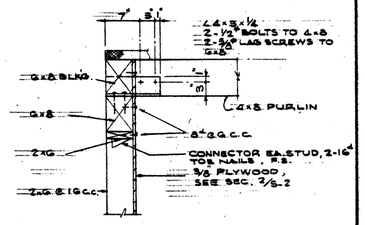


SEC. (8/S-2)
1" = 1'-0"



ALL BOLTS ARE 1/2" ø M.B.'S. UNLESS NOTED

BRACE DETAIL (7/S-2)
1" = 1'-0"



SEC. (9/S-2)
1" = 1'-0"

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — OFFICE OF ARCHITECTURE AND CONSTRUCTION
APPLICATION NUMBER 25153 APPROVED DEC 29 1964
Per [signature] STRUCTURAL ENGINEER

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER
DATE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
REG. NO. S.E. 735

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2814 W. 7TH STREET - LOS ANGELES 57, CALIF.
REG. NO. E 5699

STEPHEN T. BERKY
CONSULTING MECHANICAL ENG.
456 S. SPRING ST. - LOS ANGELES 13, CALIF.
REG. NO. M 5880

G. SHUIRMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
9357 WILSHIRE BLVD. - LOS ANGELES 36, CALIF.

SUBMITTED [signature] DATE DEC. 1964.
APPROVED
DATE
REVISIONS

SHEET TITLE
ROOF DETAILS
AUTO SHOP

THIS PLAN IS THE PROPERTY OF THE BOARD OF EDUCATION OF THE CITY OF LOS ANGELES
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. — BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE AS NOTED
DRAWN BY
CHECKED BY
SHEET NO. S2 OF 10 SHEETS

8786.24

NOTE: FOR TYP. PLYWOOD SHEAR WALL NAILING AND DETAIL SEE SHT. S4 - TYP.

2x6 STUDS @ 16" O.C.

¾" PLYWOOD

TECO FASTENER OR APPROVED EQUAL WITH 2-12d TOE NAILS, P.S. & 3 DOWS. @ 12 c.c., 6" HK.-TYP.

¾" A.B. x 10 @ 6'-0" TYP. OR N.T.D.

#3 @ 12 c.c. E.W. - TYP.

¾" DRY PACK

#4 CONT.

2'-0" TYP.

1'-6"

1'-0"

2-#4 CONT.

#4 @ 24 c.c.

1'-0"

SEC. 6 S-3 SCALE: ¾"=1'-0"

NOTE: BOT. OF FTGS. TO BE 6" MIN. OF FGF BELOW FAV. OR NAT. GRADE WHICHEVER IS LOWER, TYP. ALL EXTERIOR FTGS.

2x6 @ 16 c.c.

¾" PLYWOOD

#3 x 3'-0 @ 12" c.c. TYP.

#4 CONT.

#4 @ 24 c.c.

2-#4 CONT.

1'-0"

SEC. 7 S5 SCALE: ¾"=1'-0"

NOTE: BOT. OF FTGS. TO BE 1'-6 BELOW SLAB OR NAT. GRADE WHICHEVER IS LOWER. TYP. ALL INTERIOR FTGS

2x6 @ 16 c.c., SEE 6A/S3

SLOPE ¼"/FT.

#4 @ 24 c.c.

2-#4 CONT.

1'-0"

SEC. 8 S5 6A S-3

SCALE: ¾"=1'-0"

#3 x 2'-0 @ 12 c.c.

#4 @ 24 c.c.

NOTE: REC. TYP. DIRECTION SIM.

#4 @ 12" c.c. E.W.

SEC. 11 S-3

SCALE: ¾"=1'-0"

2x6 @ 16 c.c.

4x4 x ½" PL

¾" BOLT

6x6

4 x ½ x 0'-10" @ 2'-5⅜" FROM A.B.

3-#4 E.W.

SEC. 12 S-3

SCALE ¾"=1'-0"

SEC. 13 S-3

SCALE ¾"=1'-0"

TYP. STEPPED FTG. DETAIL

1'-0" MIN. THICKNESS

1'-0"

2'-0"

1'-0" MAX.

1'-0"

82'-0"

2¾"

9'-9¾"

10'-0"

16'-0"

16'-0"

16'-0"

18'-9¾"

2¾"

10'-0"

7'-0"

9'-0"

7'-0"

8'-0"

9'-0"

NOTE: REINF. OIL & SAND INTERCEPTOR PIT PLAN & SECTION SEE SHT. MP1

SLOPE

SLOPE

6" CONC. SLAB ON GRADE #5 @ 12" C.C. E.W.

B S-3

2'-6 x 2'-6 x 12 3-#4 EA. WAY

5'-4 x 5'-4 x 12 4-#4 EA. WAY, SEE 10/S3

2'-6 x 2'-6 x 12 3-#4 EA. WAY

5" CONC. SLAB ON GRADE #3 @ 12" o.c. E.W. FIN. FLOOR EL. = 638'-0"

KNIT TUNNEL, CONTRACTOR TO CHECK LOCATION.

EL. BOT. OF EXIST. TUNNEL 626.75 CONTRACTOR TO CHECK

FOR FDN. SEE DET. A/S-3

7'-0"

9'-0"

4'-2" x 4'-2" x 12" 6-#4 EA. WAY

ALL FOOTINGS TO BE PLACED ON UNDISTURBED SOIL

2'-6 x 2'-6 x 12 3-#4 EA. WAY

COMPACT SOIL UNDER LANDING

DENOTES EL. OF BOT. OF FOOTINGS TYP.

COMPACT SOIL UNDER LANDING

5'-0" 5'-0" 5'-0" 5'-0"

2¾" 3'-3¼" 10'-0" 16'-0" 16'-0" 16'-0" 13'-9¼" 2¾"

50'-0"

19'-5½"

14'-0"

20'-0"

2'-6"

4'-0"

2'-0"

3'-0"

10'-0"

16'-6"

12'-0"

8'-0"

9'-6"

4'-6"

2'-6"

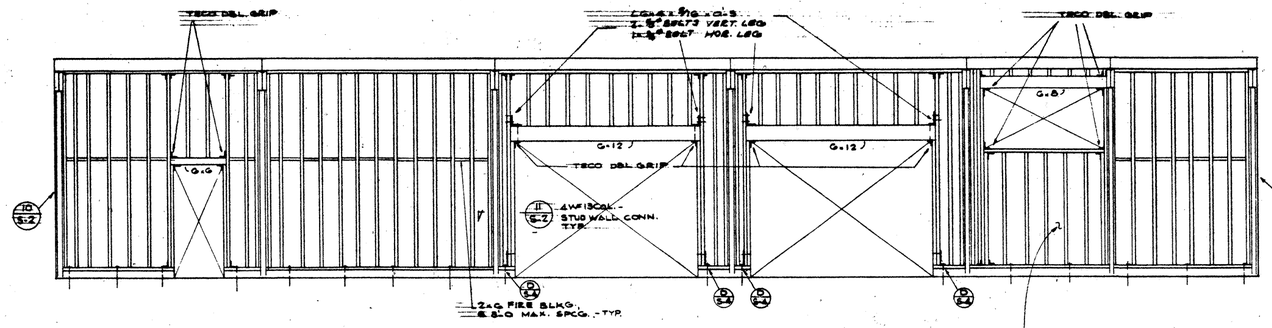
1'-0"

1'-6"

2'-6"

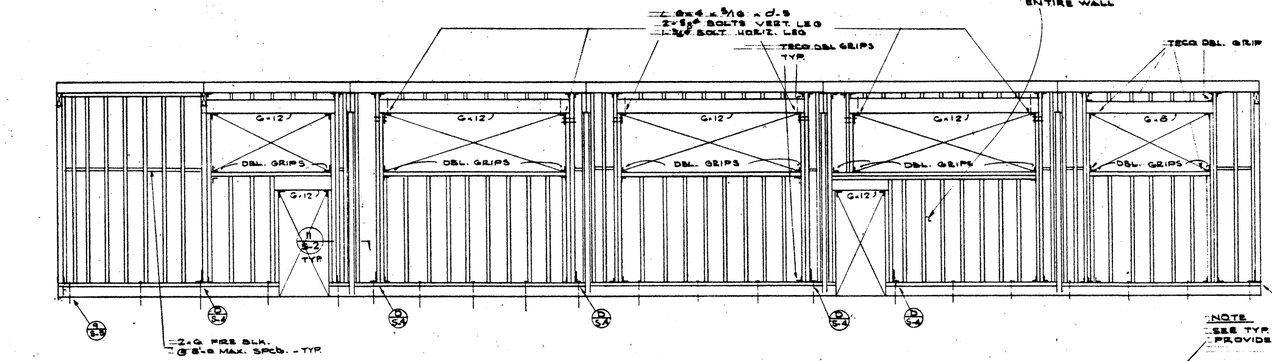
2'-6"

2



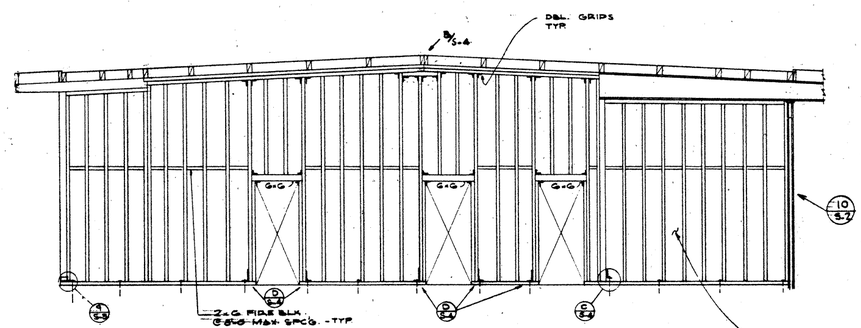
WEST WALL FRAMING ELEVATION (1/S-4)

1/4" = 1'-0



EAST WALL FRAMING ELEVATION (2/S-4)

1/4" = 1'-0

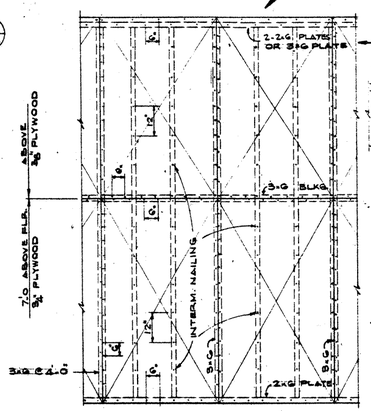


INTERIOR SHEAR AND ENDWALLS (3/S-4)

1/4" = 1'-0

PLYWOOD SHTG. SEE TYP. SHEAR WALL & PLYWOOD DETAIL BELOW - TYP. ENTIRE WALL

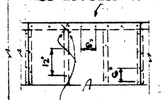
NOTE
SEE TYP. SPLICE DET. A/S-4
PROVIDE AT ALL SPLICE



TYP. SHEAR WALL NAILING & PLYWOOD DETAIL

3/8" PLYWOOD	PANEL EDGES & BOUNDARY	10d @ 6 c.c.
	INTERMEDIATE	10d @ 12 c.c.
5/8" PLYWOOD	PANEL EDGES & BOUNDARY	8d @ 6 c.c.
	INTERMEDIATE	8d @ 12 c.c.

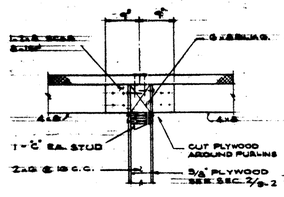
NOTE:
WHERE 3x6 PLATE IS USED NAILING SHALL BE AS FOLLOWS:



TYP. DOOR OPNG. ALL OTHER WALLS

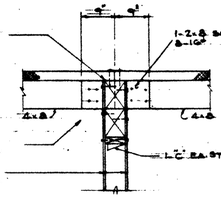
SEC. (10/S-4)

1" = 1'-0



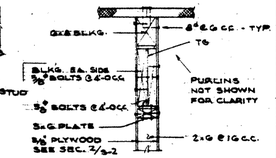
SEC. (4/S-4)

3/4" = 1'-0



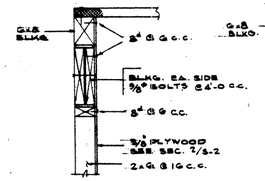
SEC. (5/S-4)

3/4" = 1'-0



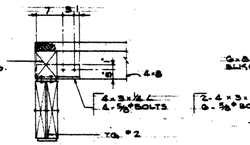
SEC. (6/S-4)

3/4" = 1'-0



SEC. (7/S-4)

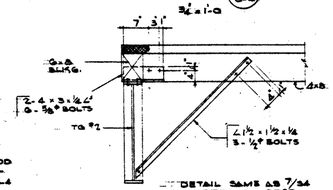
3/4" = 1'-0



TYP. PURLIN CONNECTION AT TG 2, AT EXTERIOR WALL

SEC. (8/S-4)

3/4" = 1'-0

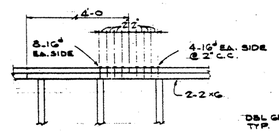


DETAIL SAME AS 7/S4 EXCEPT AS NOTED

328 TG-2 ELEV. 4'-2 FOR LOCATION

SEC. (9/S-4)

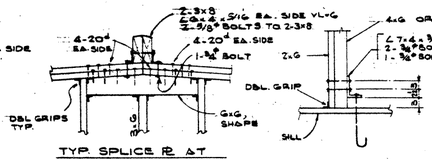
3/4" = 1'-0



TYP. 2-G R. SPLICE AT SHEAR WALLS WHERE REQ'D.

DET. (A/S-4)

3/4" = 1'-0



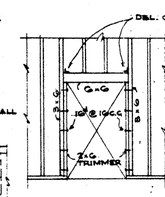
TYP. SPLICE R. AT RIDGE

DET. (B/S-4)

3/4" = 1'-0

DET. (C/S-4)

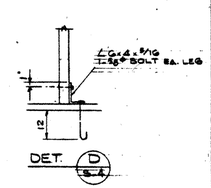
3/4" = 1'-0



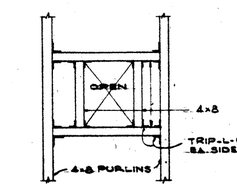
TYP. DOOR OPNG. ALL OTHER WALLS

SEC. (10/S-4)

1" = 1'-0



DET. (D/S-4)



TYP. ROOF OPENING

DET. (E/S-4)

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE
APPLICATION NUMBER 25153 APPROVED DEC 29 1964
APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE

ZORAM E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET - LOS ANGELES 57, CALIF.
REG. NO. E 5699

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. - LOS ANGELES 13, CALIF.
REG. NO. M. 2080

G. SHURMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
5410 WILSHIRE BLVD. - LOS ANGELES 36, CALIF.

ARCHITECT
DATE DEC. 10 64.
APPROVED
DATE
REVISIONS

SHEET TITLE
WALL ELEVATIONS, SECTIONS & DET'S.
AUTO SHOP

ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9000 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE AS NOTED
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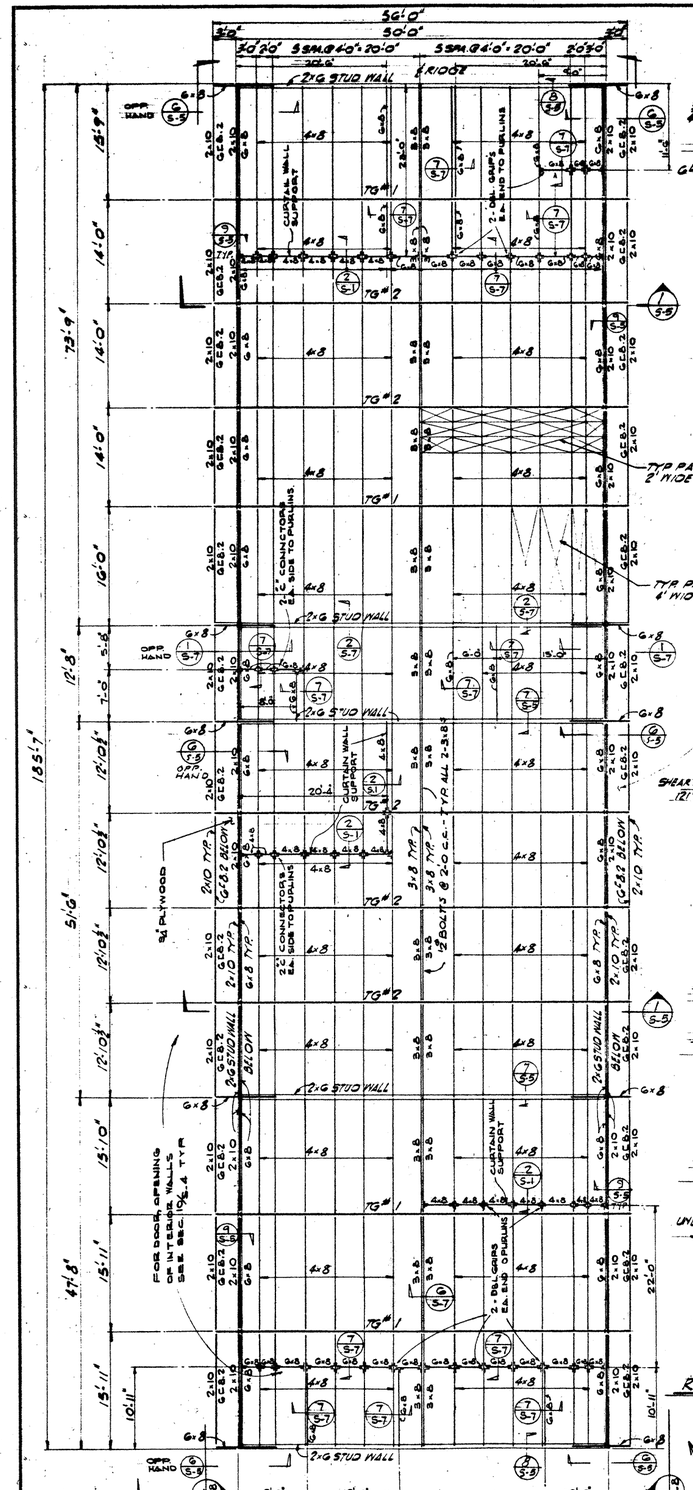
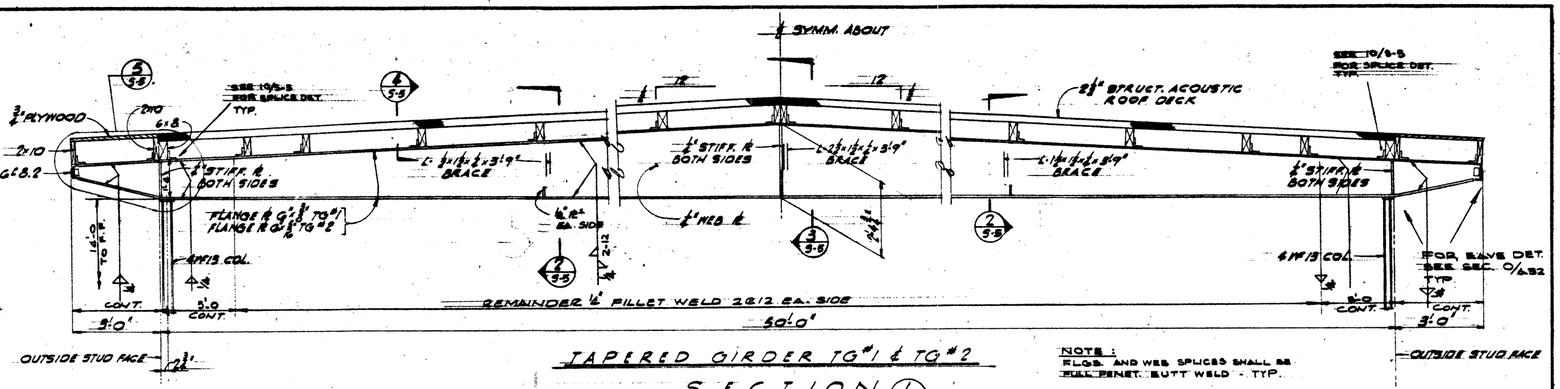


N

ROOF FRAMING PLAN

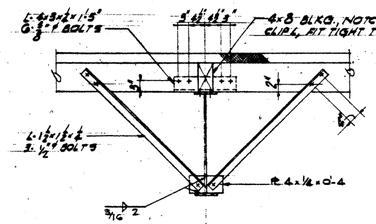
3/32" = 1'-0"



TAPERED GIRDER TG #1 & TG #2 SECTION 1/S-5

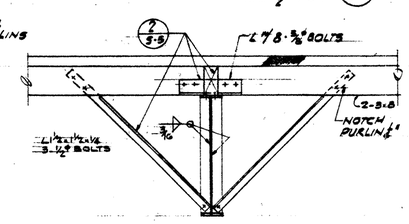
3/4"=1'-0"

NOTE:
FLGS. AND WEB SPLICES SHALL BE FULL PENET. BUTT WELD - TYP.



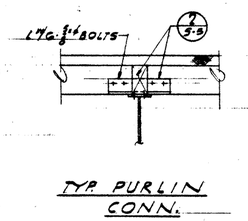
SECTION 2/S-5

1"=1'-0"



SECTION 3/S-5

1"=1'-0"

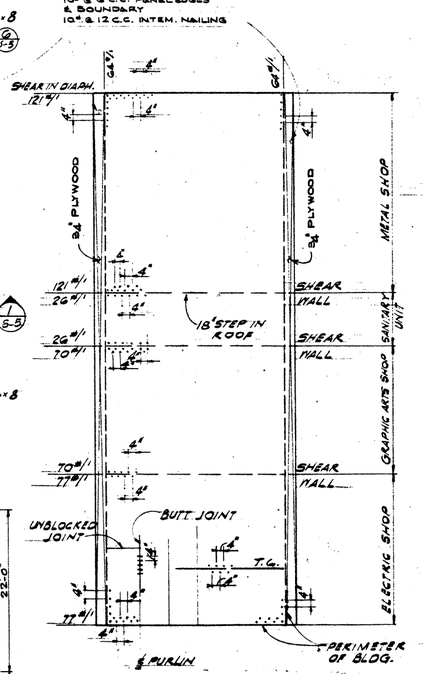


TYP. PURLIN CONN.

SECTION 4/S-5

1"=1'-0"

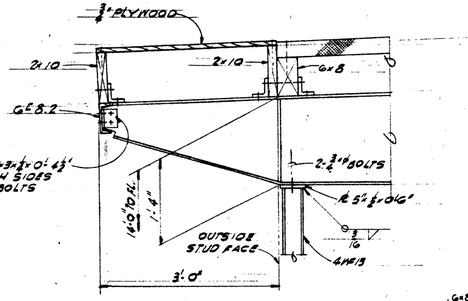
PLYWOOD NAILING:
10¢ @ 6" C.C. PANEL EDGES & BOUNDARY
10¢ & 12 C.C. INTERM. NAILING



ROOF DECKING NAILING SCHEDULE

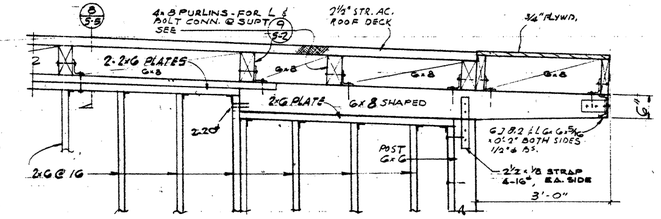
1. ROOF DECKING PARALLEL TO PURLINS
2. NAILS TO BE 8d CORK NAILS.
3. NAILS SHALL CENTER 1" FROM EDGE OF DECKING & ½" FROM EDGE OF WOOD.
4. JOINTS CENTERED ON PURLINS.

NOTE:
SEE DET. 6/S-4 FOR TYP. ROOF OPENING DETAIL.



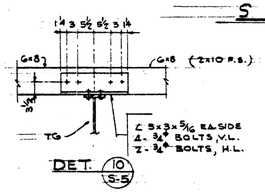
DETAIL 5/S-5

1½"=1'-0"

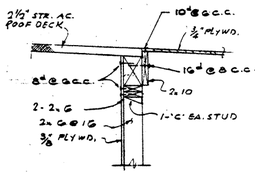


SECTION 6/S-5

3/4"=1'-0"

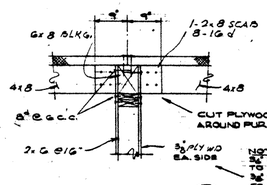


DET. 10/S-5



SECTION 9/S-5

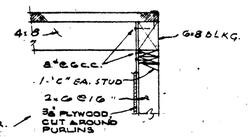
½"=1'-0"



SECTION 7/S-5

1"=1'-0"

NOTE:
⅜ PLYWOOD FLR. TO 7'-0 ABOVE FLR.
¾ PLYWOOD REM. TO ROOF, SEE FLASH TYP.



SECTION 8/S-5

1"=1'-0"

NOTE: ⅜ PLYWOOD SHALL BE OVER STUDS WITH NAILING AS NOTED IN SECTIONS AND TYP. DETAILS ON SHT. S4. ANY OTHER PLYWOOD OVER PLASTER IS FOR FINISH, SEE ARCH. DWGS.

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS — OFFICE OF ARCHITECTURAL AND ENGINEERING SERVICES
APPLICATION 25153 APPROVED DEC 29 1964
BY [signature]

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION APPROVED
NUMBER
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE

ZORAH K. SHEFFNER
STRUCTURAL ENGINEER
1006 W. 7TH STREET - LOS ANGELES 17, CALIF.
REG. NO. S.E. 1705

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
1015 W. 7TH STREET - LOS ANGELES 17, CALIF.
REG. NO. E 3699

STEPHEN T. BERKY
CONSULTING MECHANICAL ENG.
1055 S. GRAND ST. - LOS ANGELES 15, CALIF.
REG. NO. M 4486

G. SHURMAN & ASSOCIATES
SOILS ENGINEERING & GEOLOGY CONSULTANTS
1055 W. 7TH ST. - LOS ANGELES 17, CALIF.

DESIGNED [signature]
DATE DEC. 1964.
APPROVED
DATE
REVISIONS

SHEET TITLE: ROOF FRAMING PLAN & DETAILS — NEW SHOP BUILDING
NORTH HOLLYWOOD HIGH SCHOOL
5561 COLBATH AVENUE — NORTH HOLLYWOOD, CALIFORNIA
DEPARTMENT OF EDUCATION
LOS ANGELES CITY SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
8900 WILSHIRE BLVD. — BEVERLY HILLS, CALIF.

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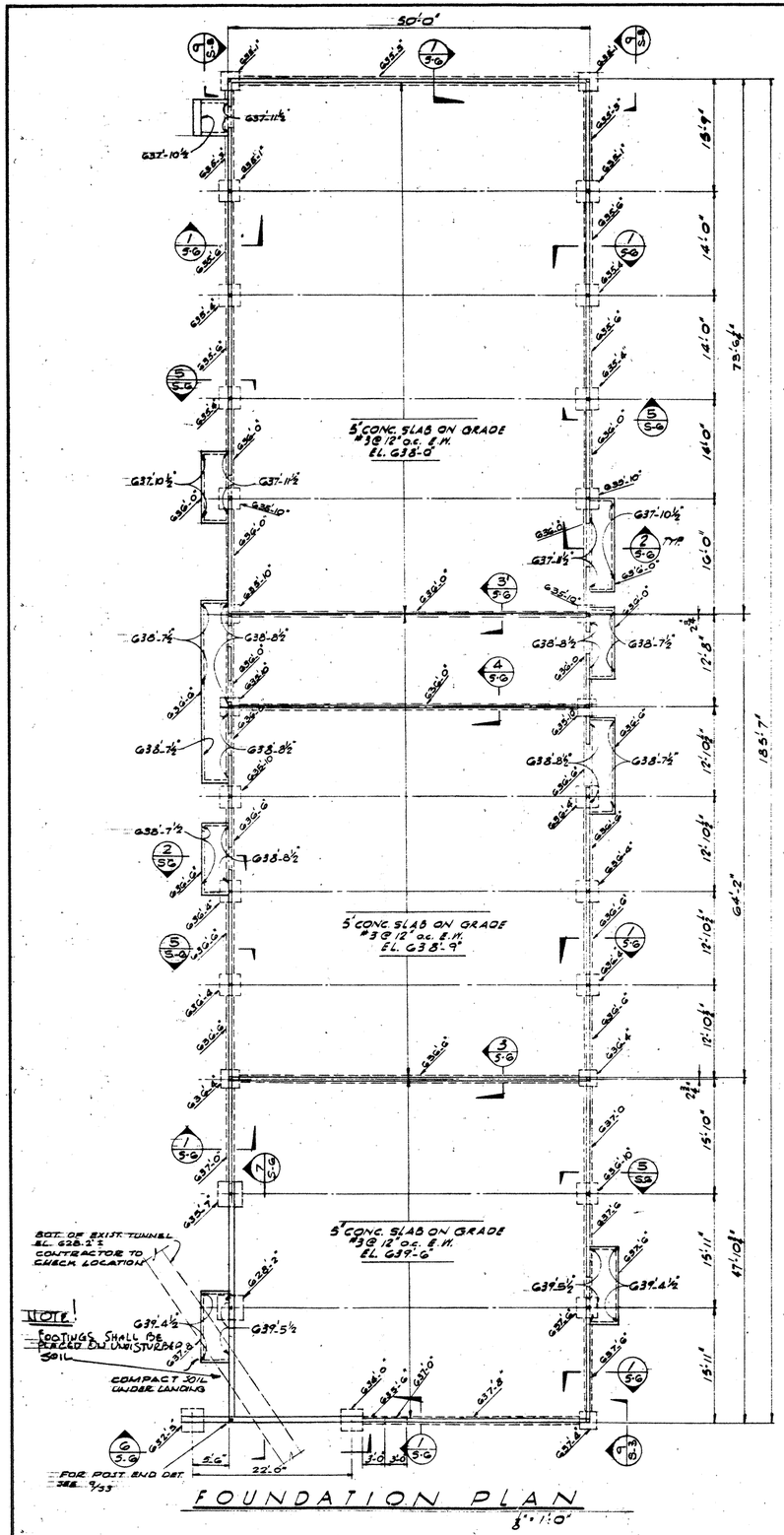
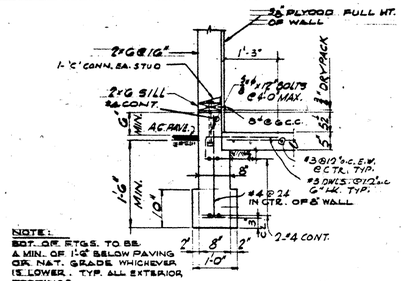
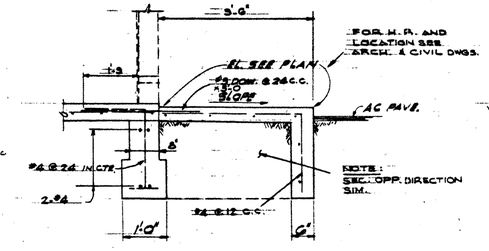
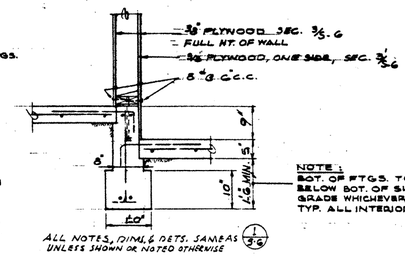




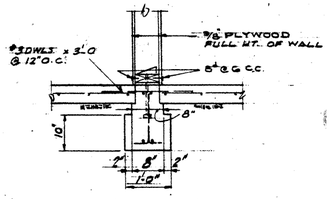
SECTION 1 / 5-G
3/4" = 1'-0"



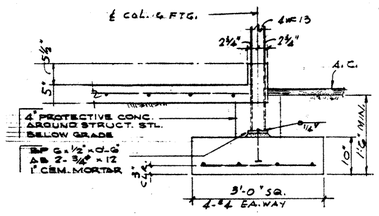
SECTION 2 / 5-G
3/4" = 1'-0"



SECTION 3 / 5-G 3' / 5-G
3/4" = 1'-0"



SECTION 4 / 5-G
1" = 1'-0"



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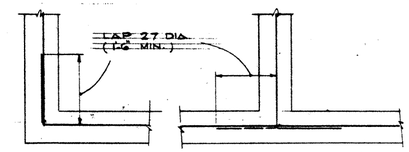
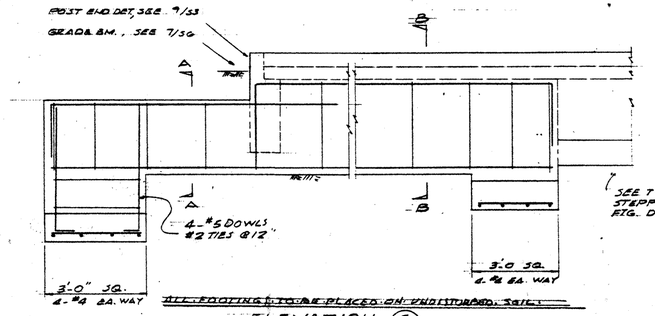
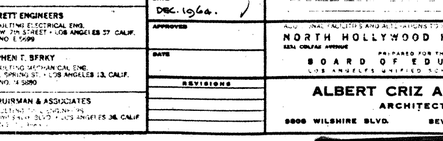


CORNER DETAIL INTERSECTION DETAIL

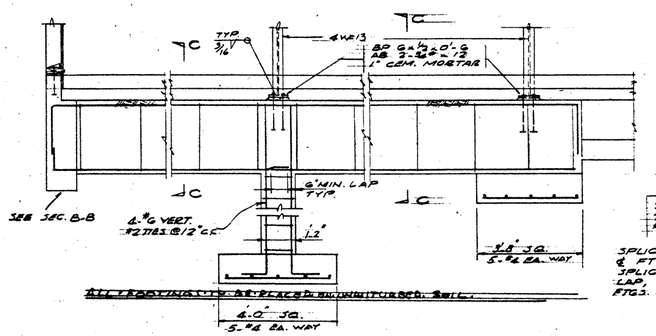
TYP. HORIZ. WALL FTG. DETAIL



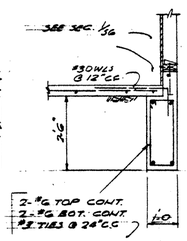
ELEVATION 6 / 5-G
1/2" = 1'-0"



SEC. A-A SEC. B-B



ELEVATION 7 / 3-G
1/2" = 1'-0"



SPLICE BOT. BARS AT ℄ FTGS. ONLY. SPLICE TOP BARS, 30 DIA. LAP, AT MID SPAN BET. FTGS. ONLY

SEC. C-C

8786.24

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
BY (PERMISSIONS STRUCTURAL & NUMBER)

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

ZORAH E. SHEFFNER — STRUCTURAL ENGINEER — 9606 WILSHIRE BLVD. — BEVERLY HILLS, CALIF. — REG. NO. S.E. 795
GARRETT ENGINEERS — CONSULTING ELECTRICAL ENG. — 2616 W. 7TH STREET — LOS ANGELES 57, CALIF. — REG. NO. E 5499
STEPHEN T. BERKY — CONSULTING MECHANICAL ENG. — 656 S. SPRING ST. — LOS ANGELES 13, CALIF. — REG. NO. M 5890
G. SHURMAN & ASSOCIATES — CONSULTING LANDSCAPE ARCHITECTS — 9606 WILSHIRE BLVD. — LOS ANGELES 35, CALIF.

ARCHITECT Albert Criz
DATE DEC. 1964.
APPROVED
DATE
REVISIONS

SHEET TITLE: FLOOR, FOUNDATION PLAN & DETAILS

ALL SPECIFICATIONS AND DETAILS PERTAINING TO THIS PROJECT ARE THE PROPERTY OF THE ARCHITECT AND ARE NOT TO BE USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE ARCHITECT.

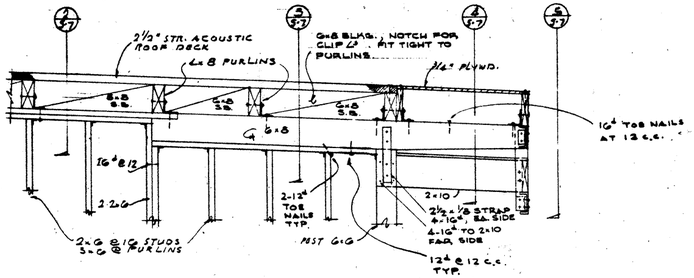
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9606 WILSHIRE BLVD. — BEVERLY HILLS, CALIF.

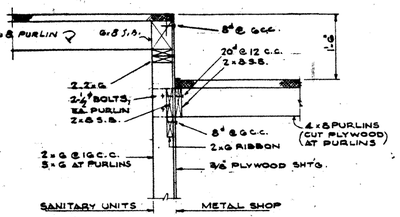
STATE OF CALIFORNIA — DEPARTMENT OF EDUCATION — DIVISION OF ARCHITECTURE
25153 APPROVED DEC 29 1964
APPLICATION NO. — BY (SIGNATURE AND TITLE)

JOB NO. 4101
SCALE AS NOTED
DRAWN BY
CHECKED BY
SHEET NO. S6 OF 10 SHEETS

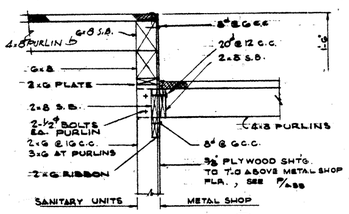
[redacted]



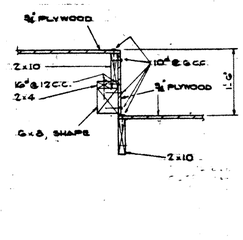
SECTION 1
¼" = 1'-0"
5-7



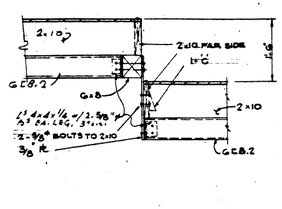
SECTION 2
¾" = 1'-0"
5-7



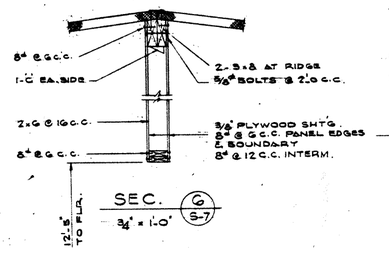
SECTION 3
¾" = 1'-0"
5-7



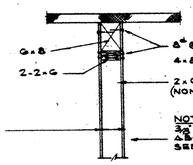
SECTION 4
¾" = 1'-0"
5-7



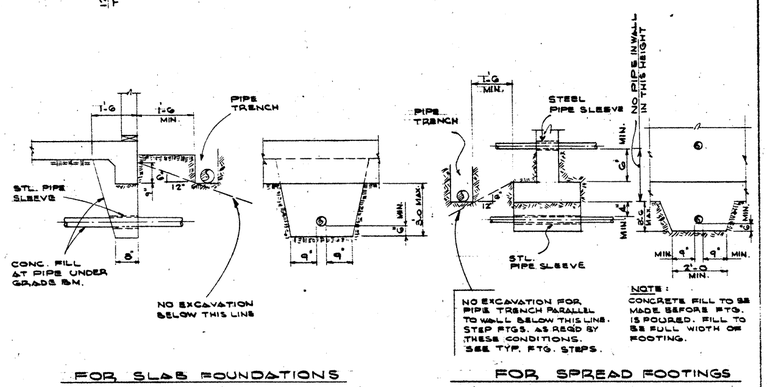
SECTION 5
½" = 1'-0"
5-7



SEC. 6
¾" = 1'-0"
5-7



SEC. 7
¾" = 1'-0"
5-7

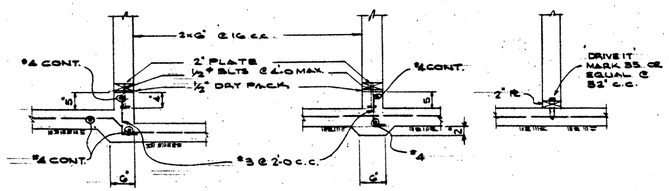


FOR SLAB FOUNDATIONS

FOR SPREAD FOOTINGS

DETAIL OF PIPES ADJACENT TO AND THROUGH FOUNDATIONS

NO SCALE



TYP. BOTTOM DETS. WOOD STUDS AT NON-BEARING PARTITIONS

NO SCALE

SCHEDULE OF MINIMUM NAILING

LOCATIONS	NO. & SIZE OF NAILS
JOISTS OR RFTS. TO SIDES OF STUDS, 8' JOISTS OR LESS	3-10d
FOR EA. ADDITIONAL 4' IN DEPTH OF JOISTS ADD	1-10d
STUDS TO BEARING, TOE NAILS EA. SIDE	2-10d
JOISTS OR RAFTERS AT ALL BEARINGS ON WOOD, TOE NAILS EA. SIDE	2-10d
BLOCKING BETWEEN JOISTS OR RAFTERS TO JOIST OR RAFTER, TOE NAILS EA. SIDE, EA. END TO JOIST OR RAFTER BEARING, TOE NAILS EA. SIDE	2-10d 2-10d
BLOCKING BETW. STUDS, TOE NAILS EA. END OR END NAILS EA.: END	2-10d 2-16d
CROSS BRIDGING BETW. JOISTS OR RAFTERS, TOE NAILS EA. END	2-8d
2"x8" CEILING STRIPPING TO UNDERSIDE OF JOIST OR RAFTER EA. BEARING 1 STRAIGHT, 1 SLANT OR 1-10" STRAIGHT STRONGHOLD NAIL EA. BEARING	2-12d
1"x4" CEILING STRIPS TO UNDERSIDE OF JOISTS PER BEARING 1 STRAIGHT, 1 SLANT STRIPS SPTS. PLASTER CLGS. SHALL BE WIRED IN PLACE ALSO, SEC. 1201(4) TITLE 21	2-8d
RIBBONS TO STUDS, TO LET INTO STUD ONE (1) INCH RIBBON TWO (2) INCH "	2-8d 2-10d
DOUBLE TOP PLATES: LOWER PLATE TO TOP OR STUD UPPER PLATE TO LOWER PLATE, STAGGERED UPPER PLATE TO LOWER PLATE AT INTERSECTION	2-20d 16d @ 16" c.c. 3-10d
MULTI STUDS, STAGGERED	16d @ 12" c.c.
DOUBLE JOISTS OR RAFTERS STAGGERED	16d @ 12" c.c.

USE 11 GA. x 1½" LARGE HEAD ROOF NAILS @ 8" CC., GYP BD. TO STRIPPING, TYP.

NOTES:
1. ALL NAILS SHALL BE COMMON WIRE NAILS, UNLESS OTHERWISE NOTED.
2. WHEREVER POSSIBLE USE FACE NAILS RATHER THAN TOE NAILS.
3. WHERE WOOD TENDS TO SPLIT AND AT JOINTS IN 2"x8" STRIPPING AND WHERE DETAILED, HOLES SHALL BE PREDRILLED OF A SIZE BETW. 60% TO 70% OF THE NAIL DIAMETER.
4. SEE SHEAR WALL DETAIL & NAILING OR STRUCTURAL PLYWOOD.

WASHER SCHEDULE

UNLESS OTHERWISE DETAILED EVERY BOLT HEAD OR NUT BEARING AGAINST WOOD SHALL BE PROVIDED WITH A WASHER OF THE SIZE SHOWN BELOW.

BOLT SIZE	STEEL PLATE	MALLEABLE IRON
½" ø	2" x ⅛" x 2"	2" ø x ⅛"
⅝" ø	2½" x ⅛" x 2½"	2½" ø x 5/16
¾" ø	2½" x 5/16" x 2½"	3" ø x ⅜"
⅞" ø	3½" x ⅜" x 3½"	3½" ø x 7/16
1" ø	3⅝" x ⅜" x 3⅝"	4" ø x ½"

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND ARCHITECT SHALL BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES.
2. PROVIDE ADEQUATE SHORING AND BRACING IN ACCORD WITH SEC. 105, TITLE 21.

FOUNDATIONS:

1. FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH REQUIREMENTS GIVEN IN REPORT OF FDN. INVESTIGATION BY MAURSETH & HOWE, FOUNDATION ENGINEERS, DATED APRIL 25, 1962.
   SPREAD FOOTINGS: SOIL PRESSURE 2,000 PSF UNDER DL+LL WITH ⅓ INCREASE FOR WIND OR SEISMIC. FOOTING DEPTH: ALL FOOTINGS MIN. 1'-6 INTO UNDISTURBED NATURAL SOIL. EXTERIOR FTGS. - MIN. 1'-6 BELOW ADJACENT FIN. GRADE, PAVING OR 1'-6 INTO NAT. SOIL, WHICHEVER IS LOWER. INTERIOR FTGS. - 1'-6 BELOW SLAB OR NAT. SOIL WHICHEVER IS LOWER.

CONCRETE & REINFORCING:

1. CONCRETE 28 DAY STRENGTH 2000 PSI.
2. REINFORCING SHALL CONFORM TO SPECIFICATIONS & A.S.T.M. A-15, DEFORMATIONS ASTM A-305
3. SPLICES IN REINFORCING UNLESS OTHERWISE DETAILED SHALL HAVE THE FOLLOWING MIN. LAP: 24 DIAMETERS BUT NOT LESS THAN 12". PARALLEL BARS SHALL HAVE A MIN. CLEAR SPACING OF 1½ BAR DIAMETER BUT NOT LESS THAN 1½". BARS SHALL BE WIRED TOGETHER AT LAPS EXCEPT AT POINTS OF SUPPORT OF MEMBERS, WHERE THEY SHALL BE SEPARATED AS REQUIRED FOR PARALLEL BARS. STAGGER LAPS IN ADJACENT BARS 2'-0" MIN. UNLESS OTHERWISE SHOWN. START HORIZONTAL WALL REINF. NOT MORE THAN 9" OR LESS THAN 2" ABOVE CONSTRUCTION JOINT.
4. PROVIDE SPACING BARS OF SUFFICIENT SIZE AND NUMBER TO ACCURATELY LOCATE AND SECURE IN PLACE ALL REINFORCING.
5. REINFORCING SHALL BE ACCURATELY PLACED WITH CENTERS OR BARS LOCATED AS DETAILED, AND WHERE POSITION OF BARS IS NOT DETAILED IT SHALL BE PLACED TO GIVE THE FOLLOWING MIN. CLEAR CONCRETE COVERAGE: CONCRETE POURED DIRECTLY IN CONTACT WITH EARTH 3", POURED AGAINST FORM 2" UNLESS OTHERWISE SHOWN.
6. CONSTRUCTION JOINTS SHALL BE SO LOCATED AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE, AND THE CONC. POURS SHALL BE PLANNED TO REDUCE THE NUMBER OF JOINTS TO A MIN. AND SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
7. PIPES OTHER THAN CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE. ANY PIPE OR CONDUIT MAY PASS THRU WALLS OR SLABS BY MEANS OF A SLEEVE SO LOCATED THAT IT DOES NOT IMPAIR THE STRENGTH OF THE STRUCTURE, SEE M&CH. PLAN FOR SLEEVE LOCATION.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL CONFORM TO A.S.T.M. A36, PIPE COLUMNS SHALL CONFORM TO A.S.T.M. DESIG. A-53 GRADE "A"
2. FABRICATION SHALL CONFORM TO A.I.S.C. SPECIFICATIONS, UNLESS OTHERWISE DETAILED.
3. WELDING SHALL COMPLY WITH SEC. 815, TITLE 21 AND CIRCULAR "G", DATED SEPT. 23 1958 OF CALIF. STATE DIV. OF ARCHITECTURE.

WOOD:

1. LUMBER GRADES SHALL CONFORM TO SPECIFICATIONS.
2. SILL PLATES SHALL BE BOLTED TO FOUNDATIONS WITH ⅝" ø x 12" BOLTS @ 4'-0 C.C. UNLESS OTHERWISE SHOWN. THERE SHALL BE ONE BOLT WITHIN 9" OF EA. END OF EA. PC. OR SILL.
3. CONNECTIONS SHOWN A, B OR C ARE TRIP-L-GRIPS.
4. WOOD CROSS BRIDGING, NOT LESS THAN 2x8, OR METAL CROSS BRIDGING OF EQUAL STRENGTH SHALL BE PLACED BETWEEN RAFTERS OVER 8" DEEP AND WHERE THE SPAN EXCEEDS 8'-0". THE DISTANCE BETWEEN BRIDGING AND SUPPORT OR LINES OF BRIDGING SHALL NOT EXCEED 8'-0
5. ALL PLYWOOD SHALL BE D.F. EXTERIOR, C.C., MARKED BY DOUG. FIR PLYWOOD ASSN.

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
25153 DIVISION OF ARCHITECTURE AND CONSTRUCTION
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
RES. NO. 93-7570

GARRETT ENGINEERS
CONSULTING CIVIL ENGINEERS
9808 WILSHIRE BLVD. - LOS ANGELES 69, CALIF.
RES. NO. 5-3679

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
648 S. BROADWAY - LOS ANGELES 13, CALIF.
RES. NO. OX 5080

G. SHURMAN & ASSOCIATES
CONSULTING ELECTRICAL ENG.
9301 WILSHIRE BLVD. - BEVERLY HILLS 38, CALIF.
RES. NO. CR 1-4161

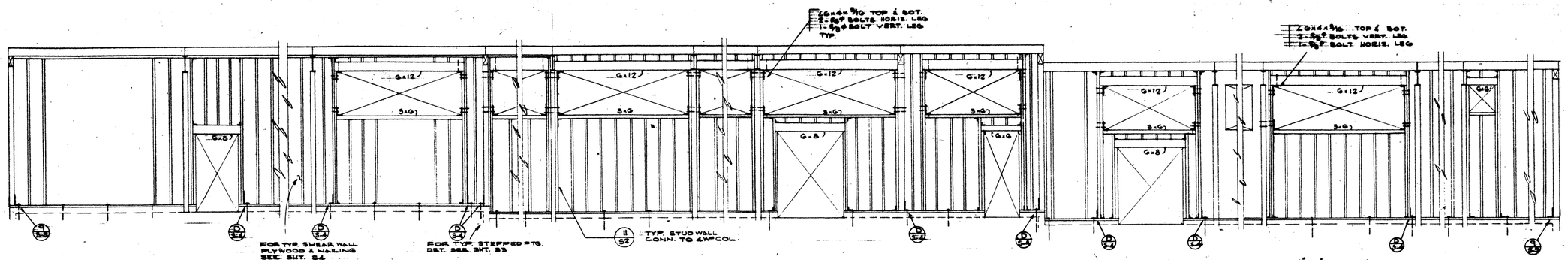
ARCHITECT
DATE DEC. 1964.
APPROVED
DATE
REVISIONS

SHEET TITLE
DETAILS
NEW SHOP BUILDING

NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
OF LOS ANGELES UNIFIED SCHOOL DISTRICT

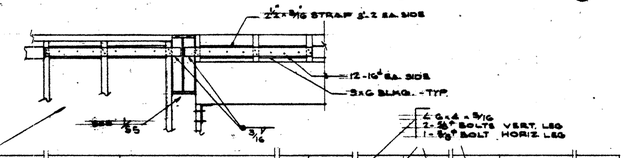
ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

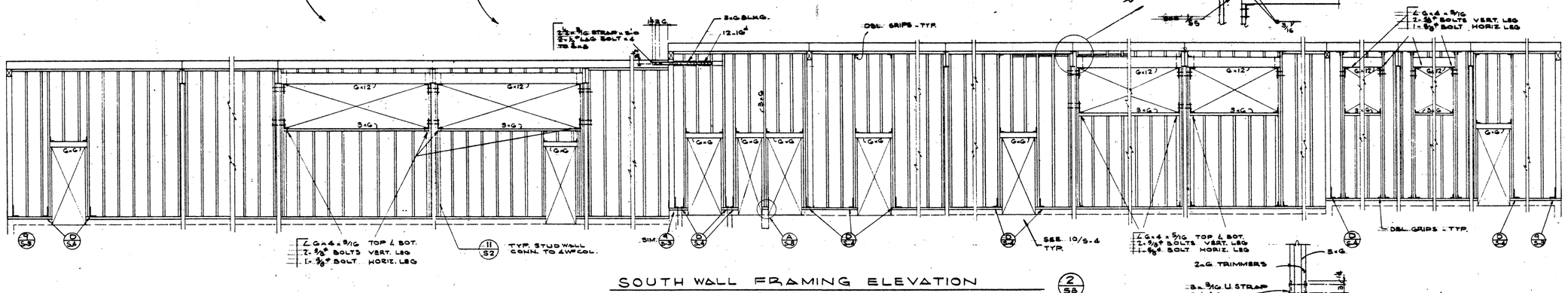
JOB NO. 6101
SCALE ¾"=1'-0"
DRAWN BY
CHECKED BY
SHEET NO. S7
OF 10 SHEETS



NORTH WALL FRAMING ELEVATION

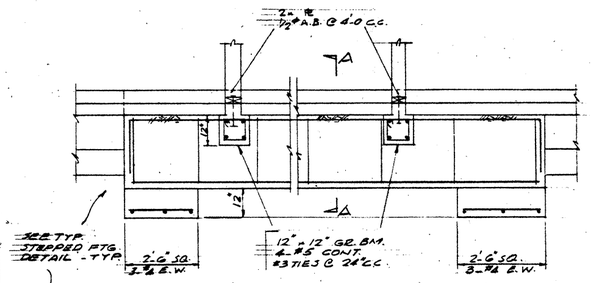
1/S5 1/2" = 1'-0"

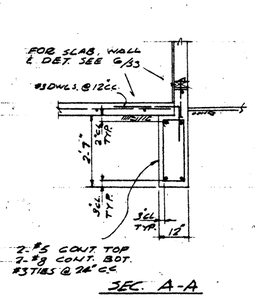




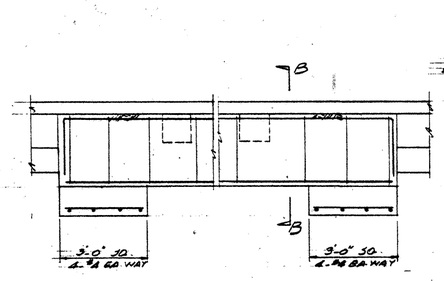
SOUTH WALL FRAMING ELEVATION

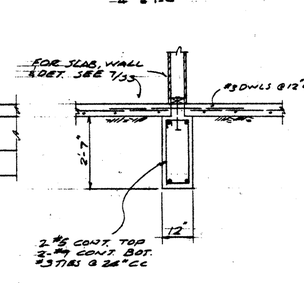
2/S8 1/2" = 1'-0"





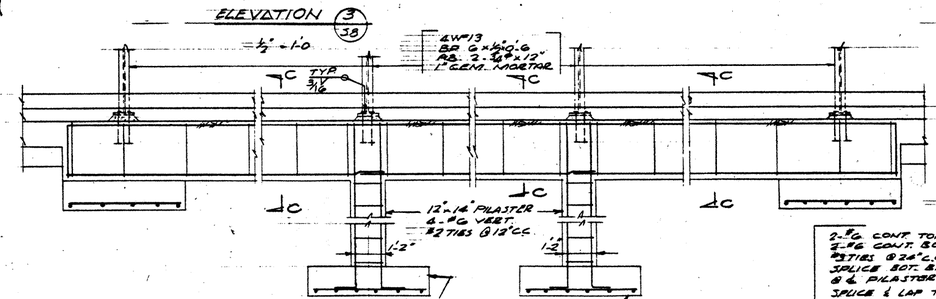
SEC. A-A





SEC. B-B

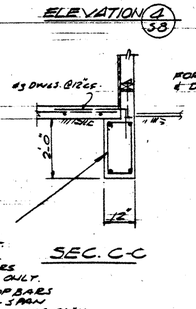
ELEVATION 3/S8 1/2" = 1'-0"



ALL FOOTINGS TO BE PLACED ON UNDISTURBED EARTH OR ON ...

ELEVATION 5/S8 1/2" = 1'-0"

ELEVATION 4/S8



SEC. C-C

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — OFFICE OF ARCHITECTURAL AND CONSTRUCTION SERVICES
APPLICATION NO. 25154 25153 APPROVED DEC 29 1964
For Ralph Hoffman Director

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING (ELECTRICAL) ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9908 WILSHIRE BLVD. BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
3435 WILSHIRE BLVD. LOS ANGELES 57, CALIF.
REG. NO. E 5699

STEPHEN T. BERKY
CONSULTING MECHANICAL ENG.
3660 WILSHIRE BLVD. LOS ANGELES 10, CALIF.
REG. NO. M 5960

G. SHURTMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
9454 WILSHIRE BLVD. LOS ANGELES 36, CALIF.
REG. NO. C 11421

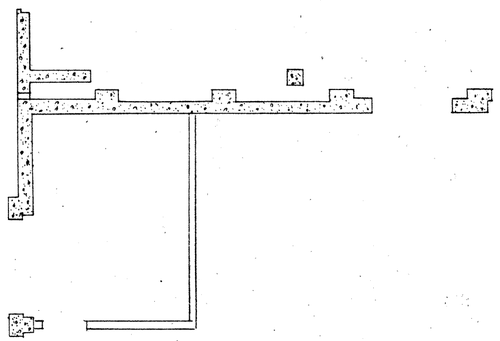
DESIGNED BY
DRAWN BY
CHECKED BY
DATE DEC. 1964.
APPROVED
DATE
REVISIONS

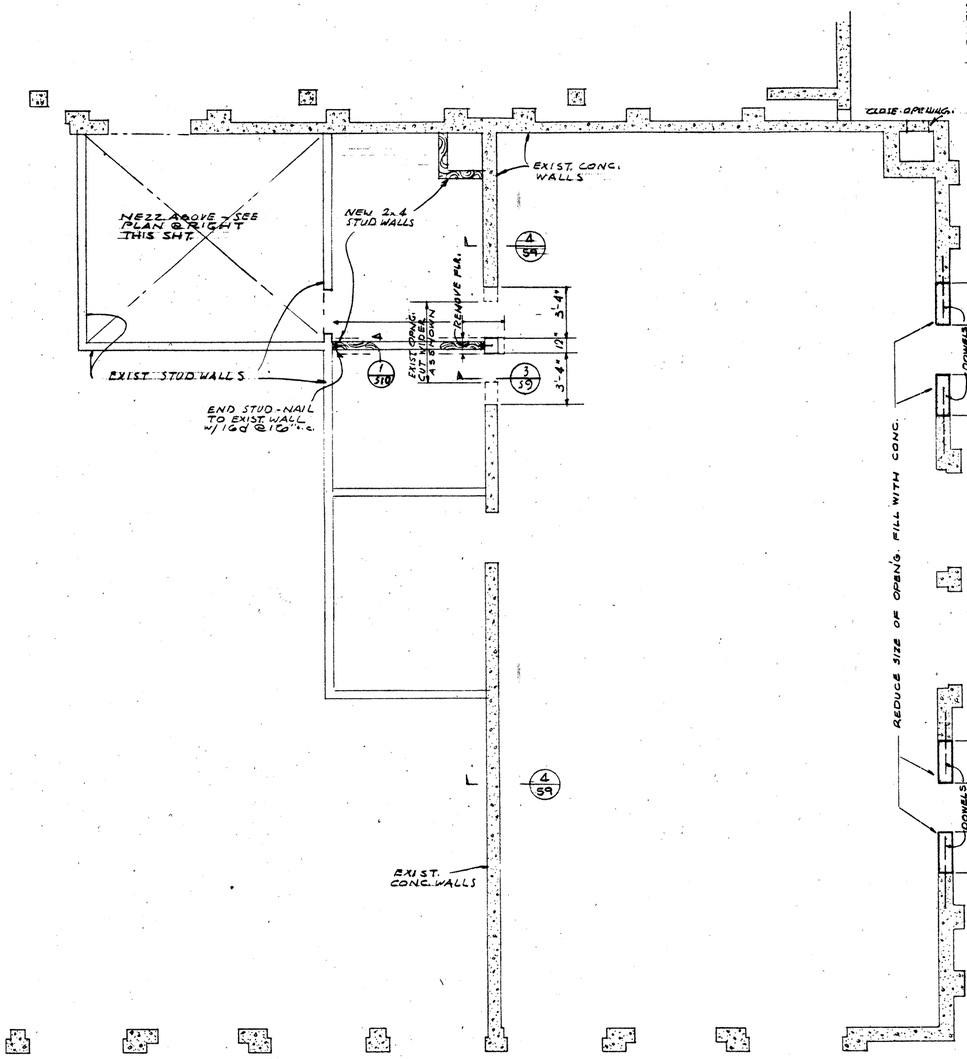
SHEET TITLE
WALL ELEVATIONS, SECTIONS & DET'S.
NEW SHOP BUILDING

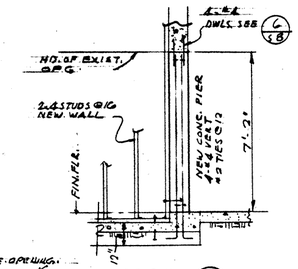
ADDITIONS TO EXISTING SHOP AND CLASSROOM BUILDINGS
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
8608 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

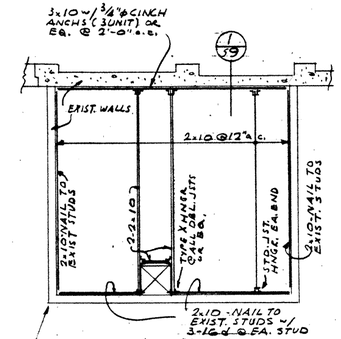
JOB NO. 6101
SCALE
SHEET NO. S 8
OF 10 SHEETS





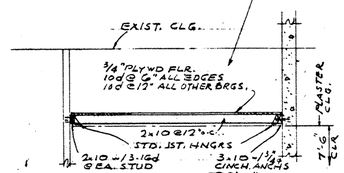


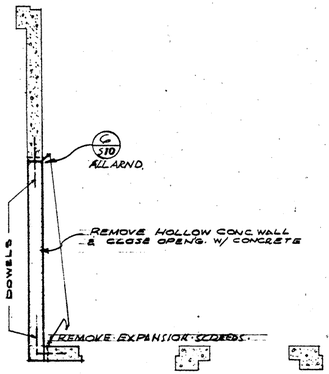
SECT. 3/S9
3/8" = 1'-0"

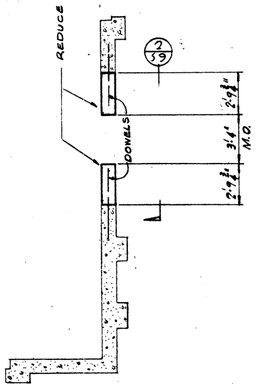


MEZZ. FRAMING PLAN
1/4" = 1'-0"

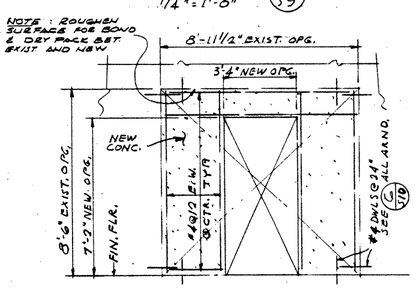
NOTE: USE BARBED NAILS EQUIVALENT TO COMMON WIRE NAILS.



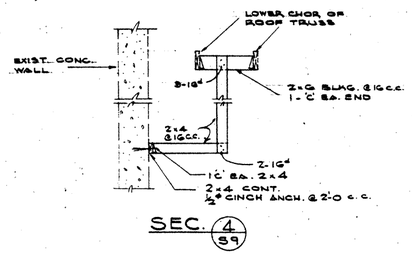




SECT. 1/S9
1/4" = 1'-0"



SECT. 2/S9
3/8" = 1'-0"



SEC. 4/S9

LEGEND
EXISTING CONCRETE
NEW CONCRETE

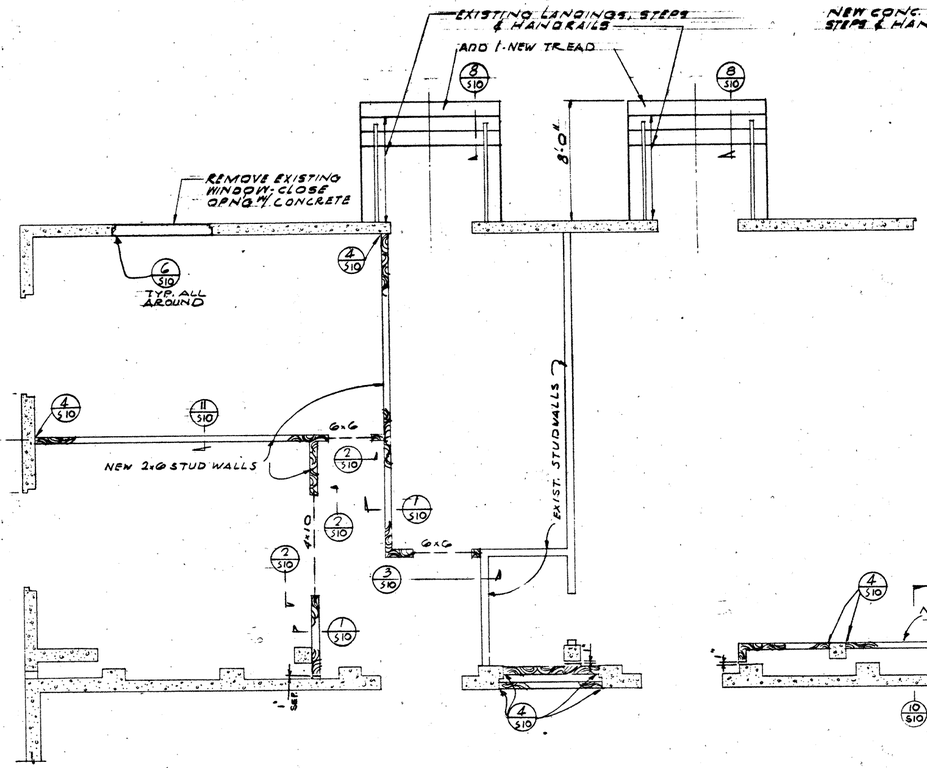
N

8786.24

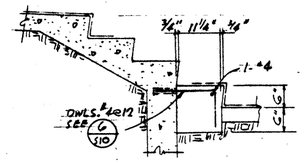
STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — OFFICE OF ARCHITECTURE AND CONSTRUCTION
APPLICATION NO. 25153 APPROVED DEC 29 1964
for Administrator

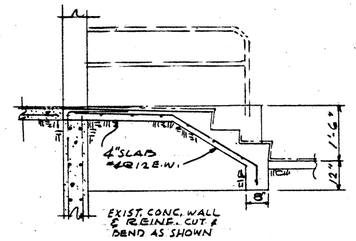
STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE APPLICATION NUMBER APPROVED DATE SUPERVISING STRUCTURAL ENGINEER	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE	ZORAH E. SHEFFNER STRUCTURAL ENGINEER 9744 WILSHIRE BLVD. BEVERLY HILLS, CALIF. REG. NO. S.E. 795 GARRETT ENGINEERS CONSULTING ELECTRICAL ENG. 2624 W. 7TH STREET - LOS ANGELES 57, CALIF. REG. NO. E. 5099 STEPHEN T. BERKY CONSULTING MECHANICAL ENG. 306 S. SPRING ST. - LOS ANGELES 13, CALIF. REG. NO. M. 5680 G. SHUIRMAN & ASSOCIATES CONSULTING CIVIL ENGINEERS 3647 WILSHIRE BLVD. - LOS ANGELES 36, CALIF. REG. NO. C. 21962	ACCEPTED Albert C. Criz DATE DEC. 1964 APPROVED DATE REVISIONS	SHEET TITLE PARTIAL PLAN & DETAILS EXISTING SHOP BUILDING NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA PREPARED FOR THE BOARD OF EDUCATION LOS ANGELES UNIFIED SCHOOL DISTRICT ALBERT CRIZ A.I.A. INC. ARCHITECT 9900 WILSHIRE BLVD. BEVERLY HILLS, CALIF.	JOB NO. 6101 SCALE AS NOTED DRAWN BY CHECKED BY SHEET NO. S9 OF 10 SHEETS

[redacted] 45 46



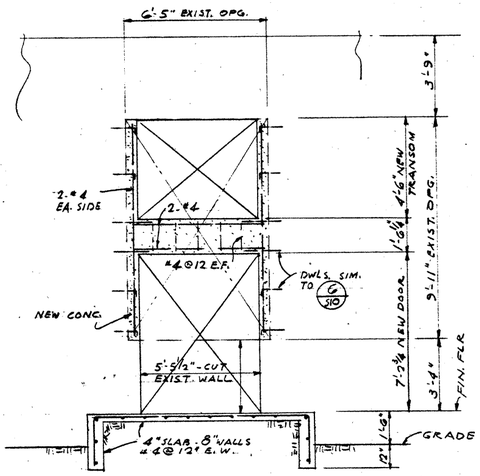
FLOOR PLAN
1/4" = 1'-0"



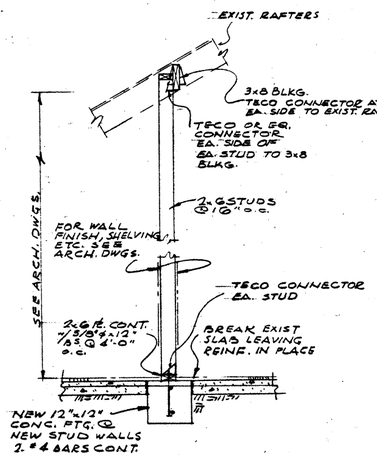


FOR DIM. & DETS. OF STAIRS & HANDRAIL SEE ARCH. DWGS. STAIRS & H.R. TO MATCH EXIST.

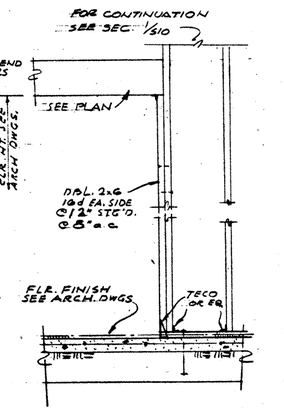
SECT. 5 / S10
1/2" = 1'-0"



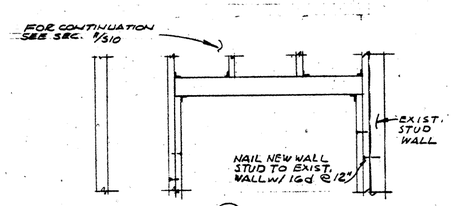
ELEVATION 7 / S10
3/8" = 1'-0"



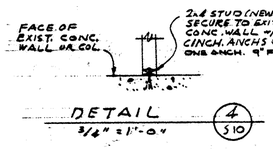
TYP. SECT. THRU NEW 2-4 STUD WALLS 1 / S10
3/4" = 1'-0"



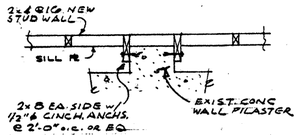
ELEVATION 2 / S10
3/4" = 1'-0"



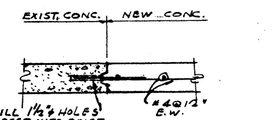
ELEVATION 3 / S10
3/4" = 1'-0"



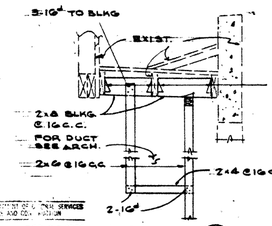
DETAIL 4 / S10
3/4" = 1'-0"



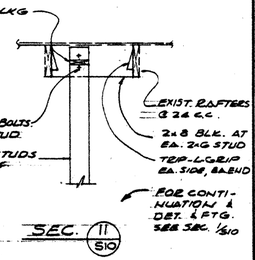
DETAIL 5 / S10
3/4" = 1'-0"



DETAIL 6 / S10
3/4" = 1'-0"



SEC. 10 / S10



SEC. 11 / S10

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — OFFICE OF ARCHITECTURE AND CONSTRUCTION
BSTB & FPA
25153
APPROVED DEC 29 1964
By

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. • BEVERLY HILLS
REG. NO. S.E. 794

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET • LOS ANGELES 57, CALIF.
REG. NO. E 5099

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. • LOS ANGELES 13, CALIF.
REG. NO. M 5883

G. SHUMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
[illegible] • LOS ANGELES 36, CALIF.

APPROVED
DATE DEC. 1964
APPROVED
DATE
REVISIONS

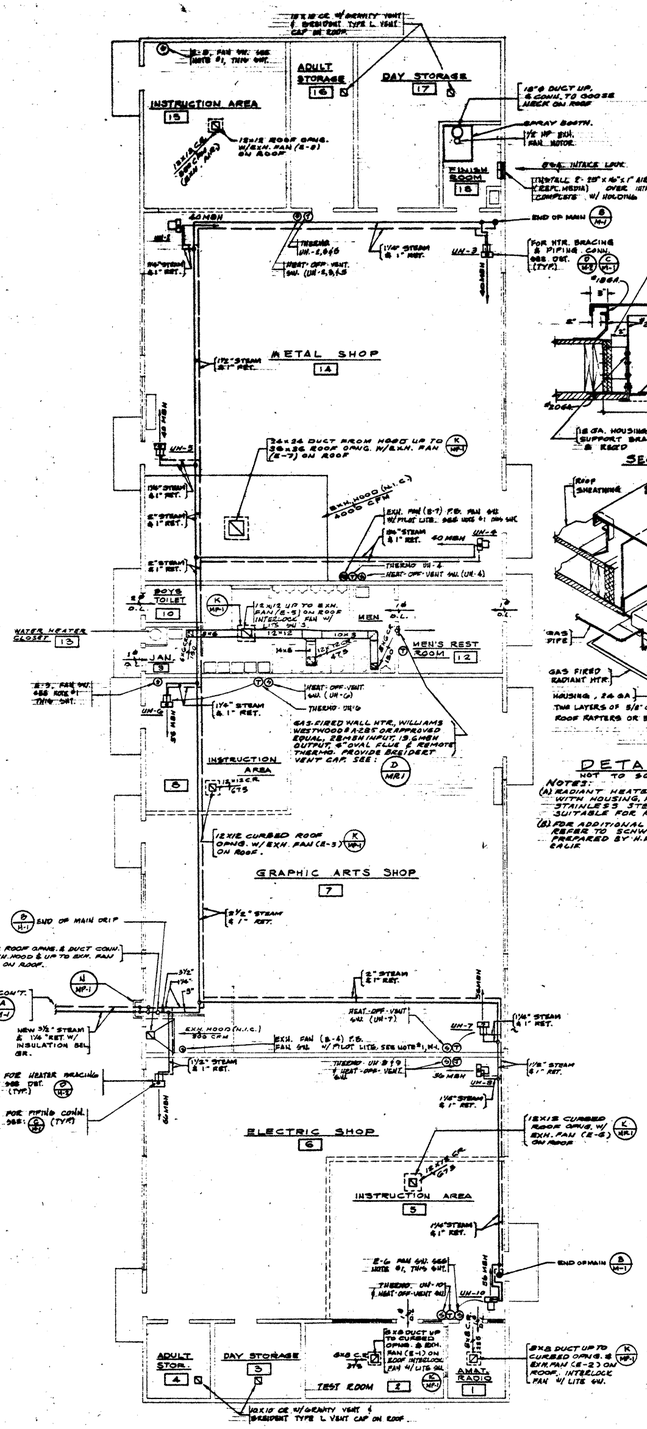
SHEET TITLE
PARTIAL PLAN & DETAILS
EXISTING SHOP BUILDING

NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE • NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES 54, CALIF.

ALBERT CRIZ A.I.A. INC.
ARCHITECT
8800 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE AS NOTED
DRAWN BY
CHECKED BY
SHEET NO. S10
OF

8786.24


ADULT STORAGE 16
DAY STORAGE 17
INSTRUCTION AREA 15
METAL SHOP 14
BOYS TOILET 10
JAN. 9
MEN 11
MEN'S REST ROOM 12
WATER HEATER CLOSET 13
GRAPHIC ARTS SHOP 7
ELECTRIC SHOP 6
INSTRUCTION AREA 5
ADULT STOR. 4
DAY STORAGE 3
TEST ROOM 2
AMAT. RADIO 1
INSTRUCTION AREA 8
40 MBH
UH-1
UH-2
UH-3
UH-4
UH-5
UH-6
UH-7
UH-8
UH-9
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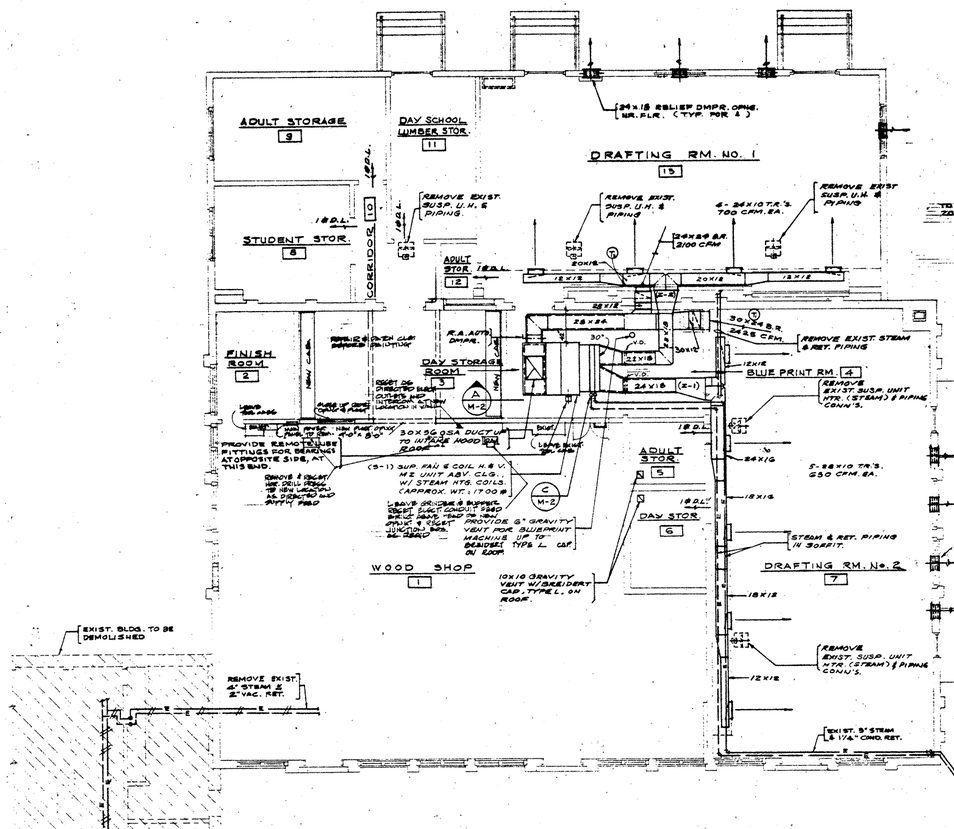
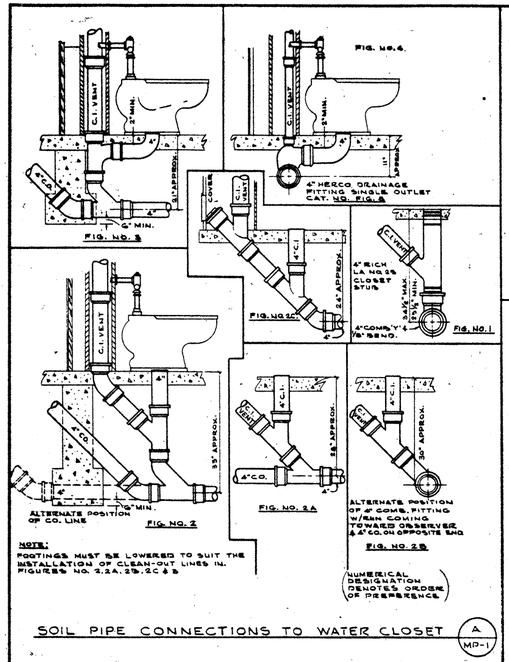
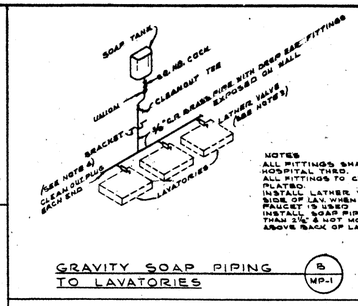
UH-40


ADULT STORAGE
9
DAY SCHOOL LUMBER STOR.
11
DRAFTING RM. NO. 1
15
STUDENT STOR.
8
CORRIDOR
10
ADULT STOR.
12
FINISH ROOM
2
DAY STORAGE ROOM
3
BLUE PRINT RM.
4
ADULT STOR.
5
DAY STOR.
6
WOOD SHOP
1
DRAFTING RM. No. 2
7
REMOVE EXIST. SUSP. U.H. & PIPING.
REMOVE EXIST. SUSP. U.H. & PIPING
REMOVE EXIST SUSP. U.H. & PIPING
REMOVE EXIST. STEAM & RET. PIPING
REMOVE EXIST. SUSP. UNIT HTR. (STEAM) & PIPING CONN'S.
(REMOVE EXIST. SUSP. UNIT HTR. (STEAM) & PIPING CONN'S.
EXIST. 3" STEAM & 1 1/4" COND. RET.
24"x18" RELIEF DMPR. OPNG. NR. FLR. (TYP. FOR 4)
4 - 24"x10" T.R.'S. 700 CFM. EA.
24"x24" R.A. 2100 CFM
30"x24" R.A. 2455 CFM.
R.A. AUTO. DMPR.
24"x16"
18"x18"
12"x12"
5 - 9"x10" T.R.'S. 230 CFM. EA.
24"x18" RELIEF OPNG. GRVL. NR. FLR. (TYP. FOR 4)
30"x20" O.A. INTAKE HOOD
30"x20" O.A. DUCT UP TO INTAKE HOOD ON ROOF
(S-1) SUP. FAN & COIL H.& V. AIR UNIT ASY. CLG., W/ STEAM HTG. COILS. (APPROX. WT. 1700 #)
PROVIDE 8" GRAVITY VENT FOR EXHAUST MACHINE UP TO RAINCAP ON ROOF.
10"x10" GRAVITY VENT W/SKEIDERT CAP, TYP. L. ON ROOF.
PROVIDE REMOVABLE FITTINGS FOR BRACINGS AT OPPOSITE SIDE, AT THIS END.
EXIST. BLDG. TO BE DEMOLISHED
REMOVE EXIST. 4" STEAM & 2" VAC. RET.
18" D.L.
12" D.L.
SEE SHT. M-1 FOR CONTROL DIAGRAM
SEE SHT. M-1 FOR DUCT LAYOUT
SEE SHT. M-1 FOR DUCT LAYOUT & NOTES

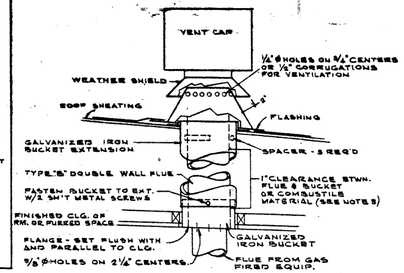


SOIL PIPE CONNECTIONS TO WATER CLOSET (A MP-1)



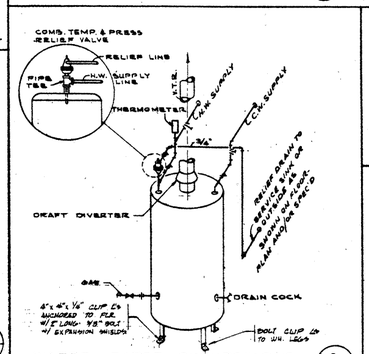
NOTES
ALL FITTINGS SHALL HAVE HOSPITAL THRD.
ALL FITTINGS TO CHROME PLATED.
INSTALL GATE VALVE ON LEFT SIDE OF LAV. WHEN SINGLE FAUCET IS USED.
INSTALL SOAP PIPE NOT LESS THAN 2½" & NOT MORE THAN 4" ABOVE BACK OF LAVS.

GRAVITY SOAP PIPING TO LAVATORIES (B MP-1)

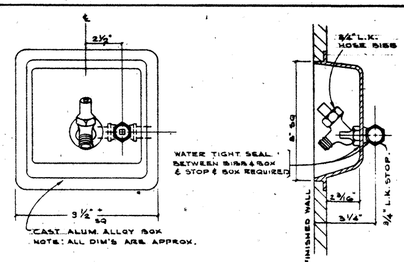


NOTES:
1 FLASHING, VENT CAP AND WEATHER SHIELD SHALL BE FIRMLY SECURED TO FLUE WITH FOUR SHEET METAL SCREWS.
2 BUCKET EXTENSION SHALL EXTEND THRU ROOF
3 ½" MINIMUM CLEARANCE MAY BE USED IN INSTALLATION OF SPACE HEATERS OF 50,000 BTU INPUT OR LESS. (1" MIN. CLEAR. OVER 50,000)
4 WHEN FLUE IS ALUMINUM, THE VENT CAP, WEATHER SHIELD AND FLASHING SHALL ALSO BE ALUMINUM.

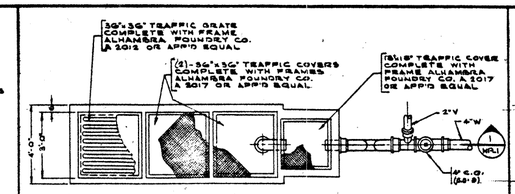
FLUE INSTALLATION FOR GAS FIRED EQUIP. (D MP-1)



WATER HEATER CONNECTIONS (C MP-1)

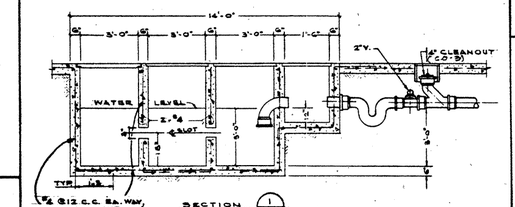


RECESSED HOSE BIBB ASSEMBLY (G MP-1)

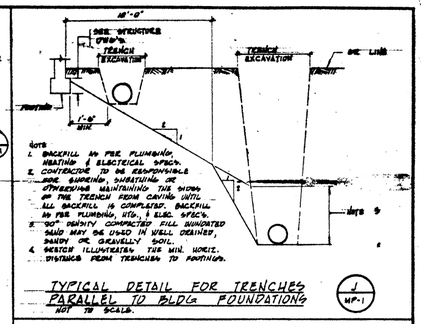


PLAN

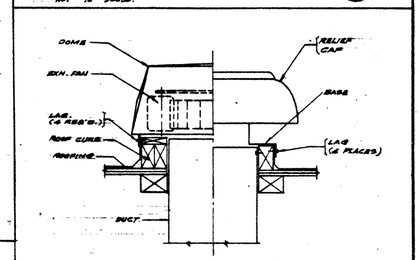
NOTE:
FURNISH ALL METAL ITEMS CONCRETE WORK BY OTHERS



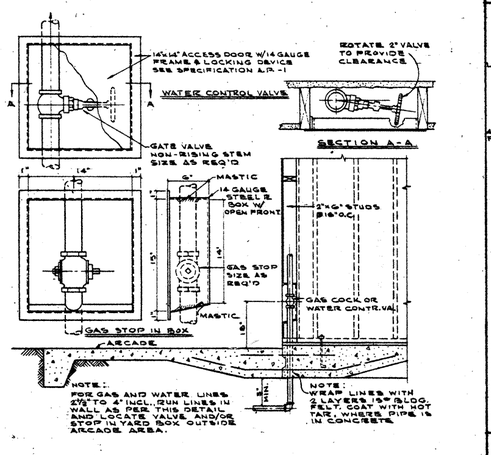
SAND & OIL INTERCEPTOR (H MP-1)
NOT TO SCALE



TYPICAL DETAIL FOR TRENCHES PARALLEL TO BLDG. FOUNDATIONS
NOT TO SCALE. (J MP-1)

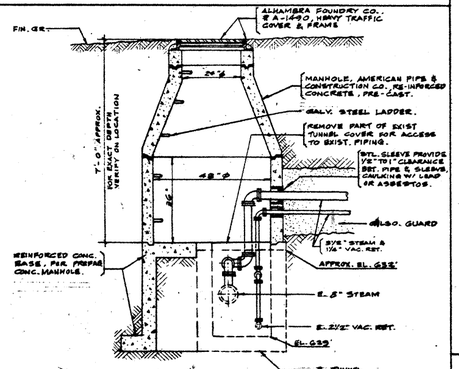


EXH. FAN & RELIEF DETAIL
NOT TO SCALE (K MP-1)

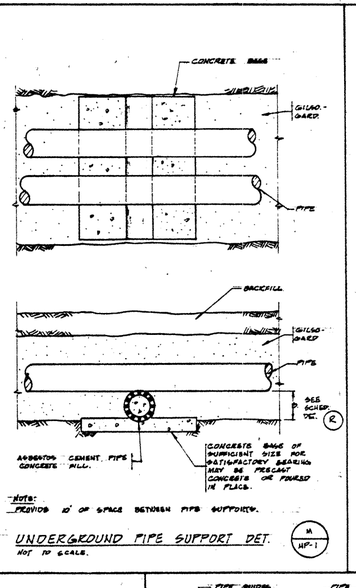


METHOD OF RUNNING 2" OR SMALLER GAS & WATER LINES INTO BLDG. FROM BELOW (E MP-1)

DETAIL OF CLEANOUT FOR URINAL BATTERIES (F MP-1)

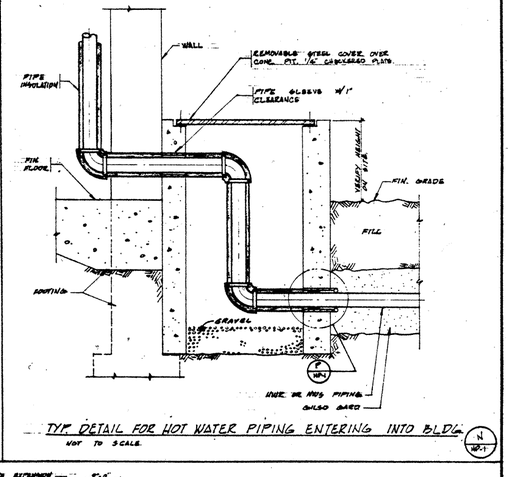


METHOD OF CONNECTION BET. MANHOLE SHAFT & E. TUNNEL (L MP-1)

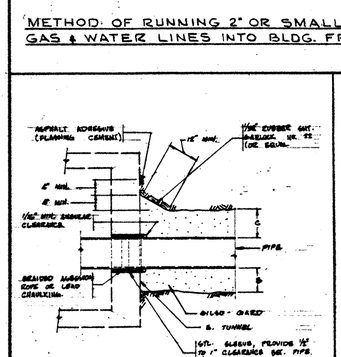


NOTE:
PROVIDE ½" OF SPACE BETWEEN PIPE SUPPORTS.

UNDERGROUND PIPE SUPPORT DET.
NOT TO SCALE. (M MP-1)



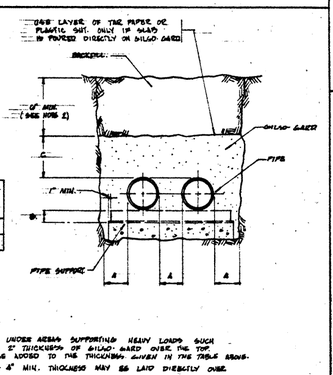
TYP. DETAIL FOR HOT WATER PIPING ENTERING INTO BLDG.
NOT TO SCALE. (N MP-1)



NOTE:
USE DIMT. "A" IN THIS SHT. FOR DIMS. OF "B" & "C".

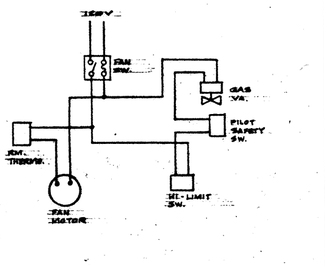
SEAL DETAIL OF PIPING AT EXIST. TUNNEL
NOT TO SCALE. (P MP-1)

ECONOMIC PIPE SIZE NO.	DIM. "A" IN.	DIM. "B" IN.	DIM. "C" IN.
1	8	5	6
2	4	3	4

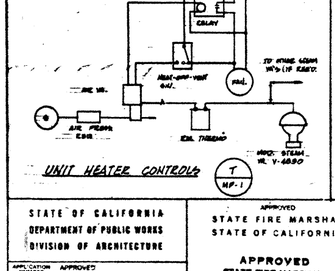


NOTES:
1. GUIDES FOR PIPES PASS UNDER ARCADE SUPPORTING HEAVY LOADS SUCH AS DRIVEWAYS AN EXTRA 2" THICKNESS OF GILSO-BOARD OVER THE TOP OF THE PIPES SHALL BE ADDED TO THE THICKNESS GIVEN IN THE TABLE ABOVE.
2. A CONCRETE SLAB OF 4" MIN. THICKNESS MAY BE LAID DIRECTLY OVER GILSO-BOARD.

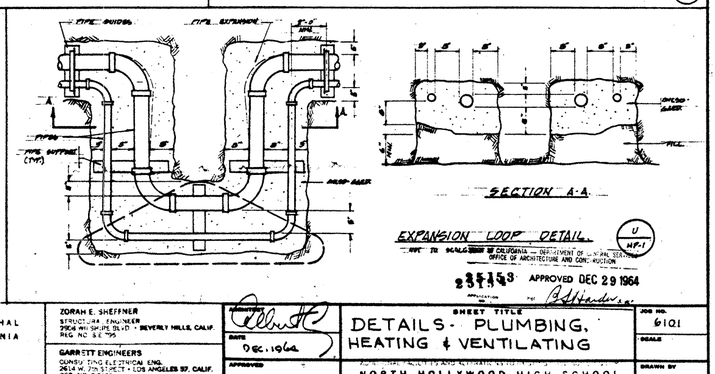
INSULATED PIPE TRENCH
NOT TO SCALE. (R MP-1)



GAS-FIRED UNIT HEATER CONTROLS (3 UH-1) (S MP-1)



UNIT HEATER CONTROLS (T MP-1)



SECTION A-A

EXPANSION LOOP DETAIL (U MP-1)
NOT TO SCALE

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER
DATE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAN E. SHEFFNER
STRUCTURAL ENGINEER
2906 NICHOLS BLVD. - BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7TH STREET - LOS ANGELES 57, CALIF.
REG. NO. E 5690

STEPHEN T. BERKY
CONSULTING CIVIL ENGINEER
8170 BEVERLY BLVD. - LOS ANGELES 48, CALIF.
REG. NO. 9 5280
Stephen T. Berky

G. SHUPMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
3355 WILSHIRE BLVD. - LOS ANGELES 5, CALIF.
REG. NO. 7 5280

Albert Criz
DEC. 1964

REVISIONS
DATE
APPROVED
DATE

SHEET TITLE
DETAILS - PLUMBING, HEATING & VENTILATING

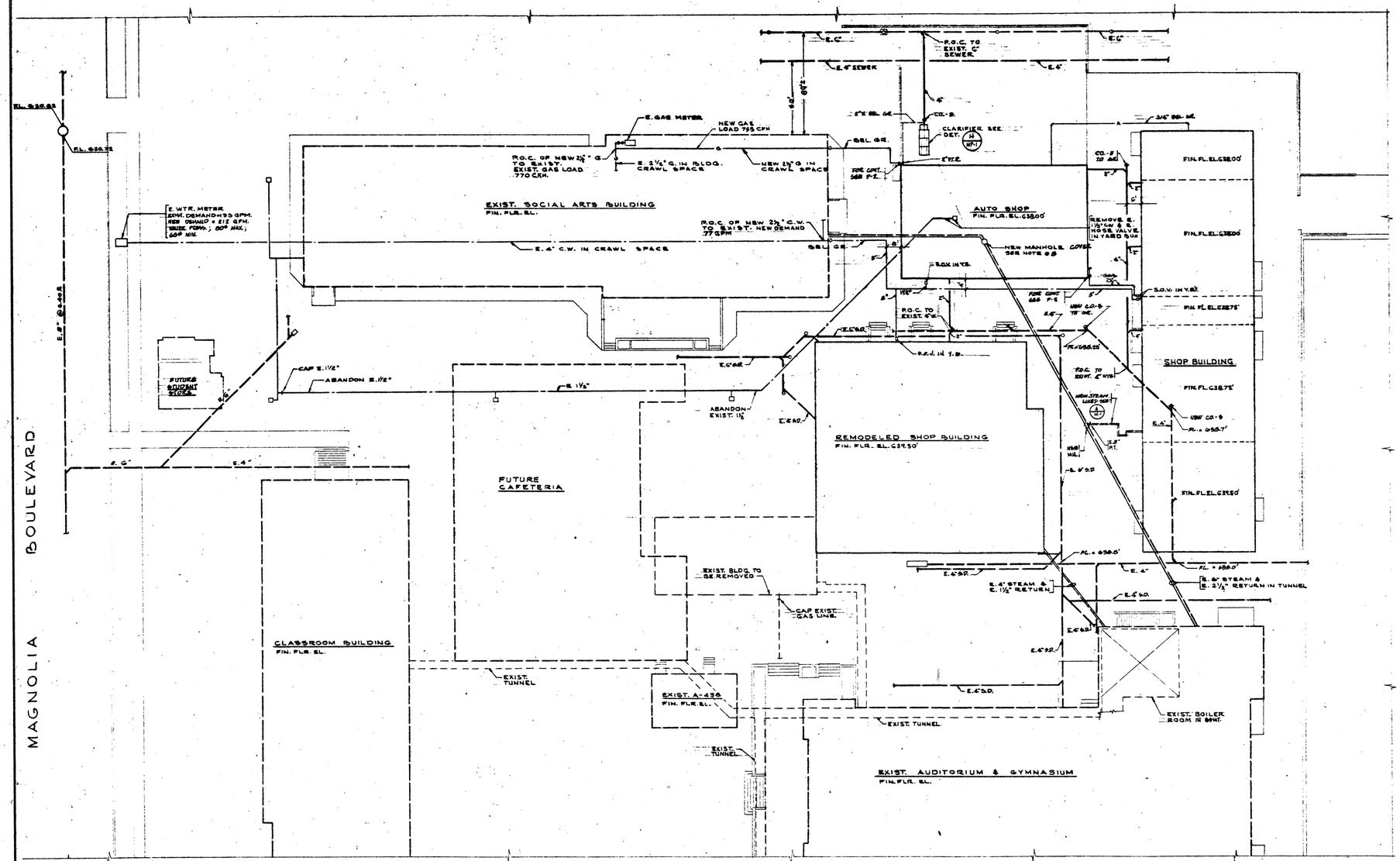
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

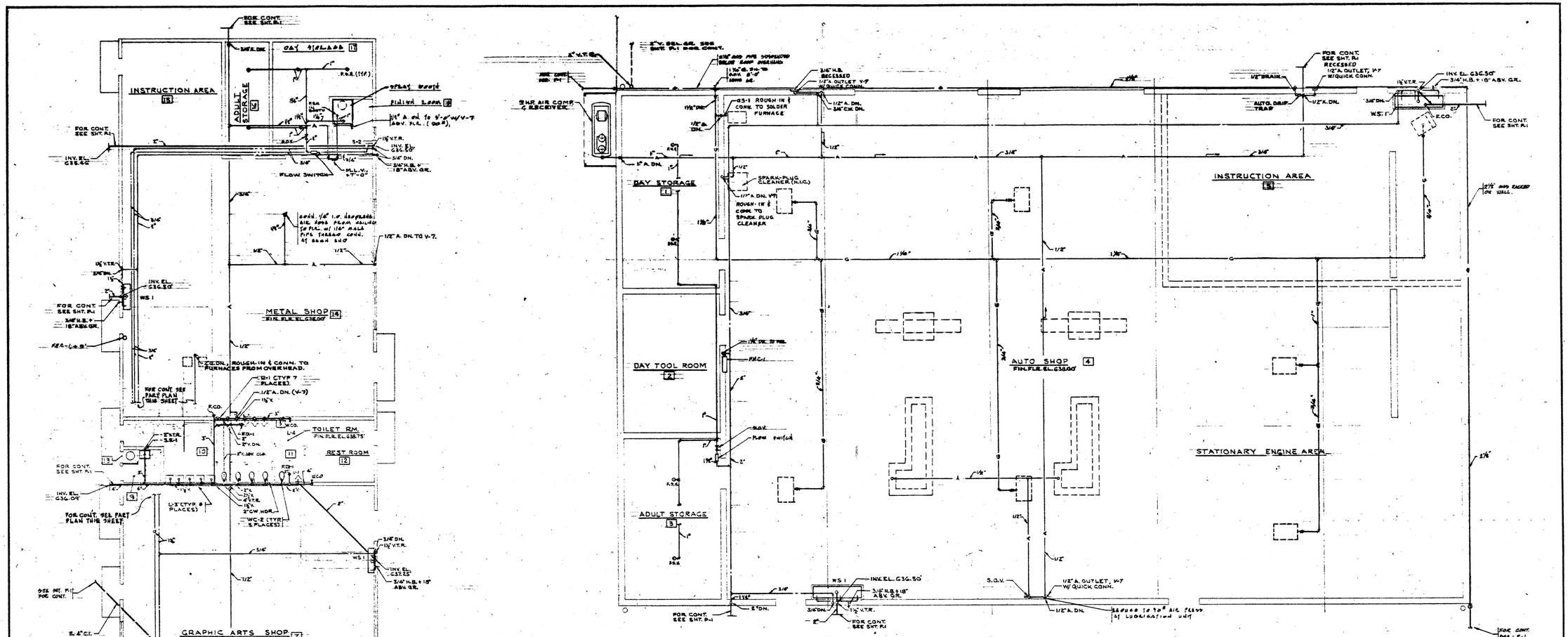
ALBERT CRIZ A.I.A. INC.
ARCHITECT
8606 WILSHIRE BLVD. — BEVERLY HILLS, CALIF.

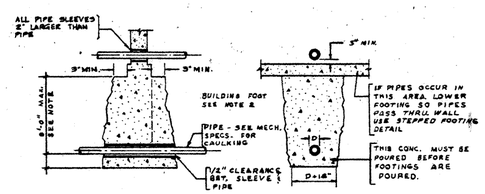
JOB NO. 6101
SCALE
DRAWN BY
CHECKED BY
SHEET NO. MP1
OF 1 SHEETS

APPROVED DEC 29 1964
BY

8786.24


MAGNOLIA BOULEVARD
EL. 936.83
F.L. 936.72
E.W.R. METER
EXIST. SOCIAL ARTS BUILDING
FIN. FLR. EL.
E. GAS METER
NEW GAS LOAD 795 CFH
R.O.C. OF NEW 2½" G. TO EXIST. EXIST. GAS LOAD 770 CFH.
E. 2½" G. IN BLDG. CRAWL SPACE
NEW 2½" G. IN CRAWL SPACE
R.O.C. OF NEW 2½" C.W. TO EXIST. NEW DEMAND 77 GPM
E. 4" C.W. IN CRAWL SPACE
FUTURE EQUIPMENT STORE
CAP E. 1½"
ABANDON E. 1½"
E. 1½"
ABANDON EXIST. 1½"
FUTURE CAFETERIA
EXIST. BLDG. TO BE REMOVED
CAP EXIST. GAS LINE
CLASSROOM BUILDING
FIN. FLR. EL.
EXIST. TUNNEL
EXIST. A-436 FIN. FLR. EL.
EXIST. TUNNEL
EXIST. TUNNEL
EXIST. AUDITORIUM & GYMNASIUM
FIN. FLR. EL.
R.O.C. TO EXIST. 6" SEWER
E. 6" SEWER
CLARIFIER SEE DET. H MP-1
AUTO SHOP
FIN. FLR. EL. 938.00
REMOVE E. 1½" C.W. & E. HOSE VALVE IN YARD BOX
NEW MANHOLE SEE NOTE #8
S.O.V. IN Y.B.
R.O.C. TO EXIST. 4" W.L.
REMODELED SHOP BUILDING
FIN. FLR. EL. 939.50
SHOP BUILDING
FIN. FL. EL. 938.75
FIN. FL. EL. 938.75
FIN. FL. EL. 938.00
FIN. FL. EL. 938.00
FIN. FL. EL. 939.50
NEW STEAM & COND. RET.
EXIST. BOILER ROOM IN BSMT.
E. 4" STEAM & E. 1½" RETURN
E. 6" STEAM & E. 2½" RETURN IN TUNNEL
FL. = 938.0'
FL. = 938.0'
FL. = 938.0'
E. 4"
E. 6" SEWER
E. 6" GAS
E. 6" SD.
E. 6" SD.
E. 6" SD.

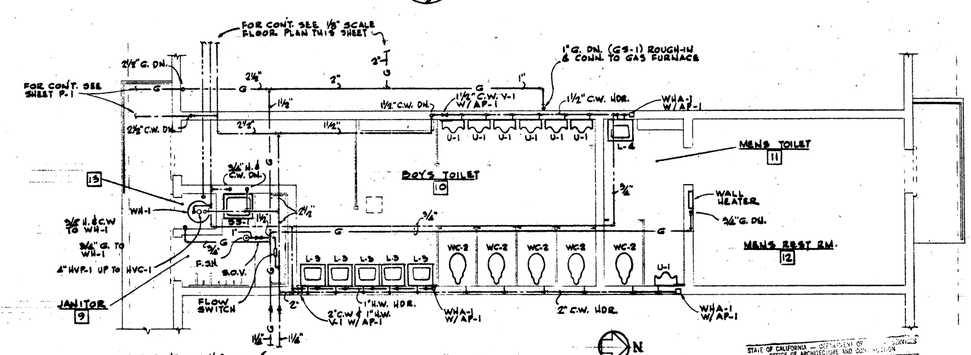




NOTES:
1. FOR PIPES MORE THAN 3'-0" BELOW BOTTOM OF FOOTINGS USE COMPACTED FILL IN TRENCH AS PER DETAIL.
2. CONTRACTOR MAY FORM ENDS OF CONC. TRENCH FILL AT HIS OPTION OR LET CONC. SLOUGH TO NATURAL SLOPE.

TYPICAL DETAIL FOR TRENCHES NOT PARALLEL TO BLDG. FOOTING
NOT TO SCALE

A P-2



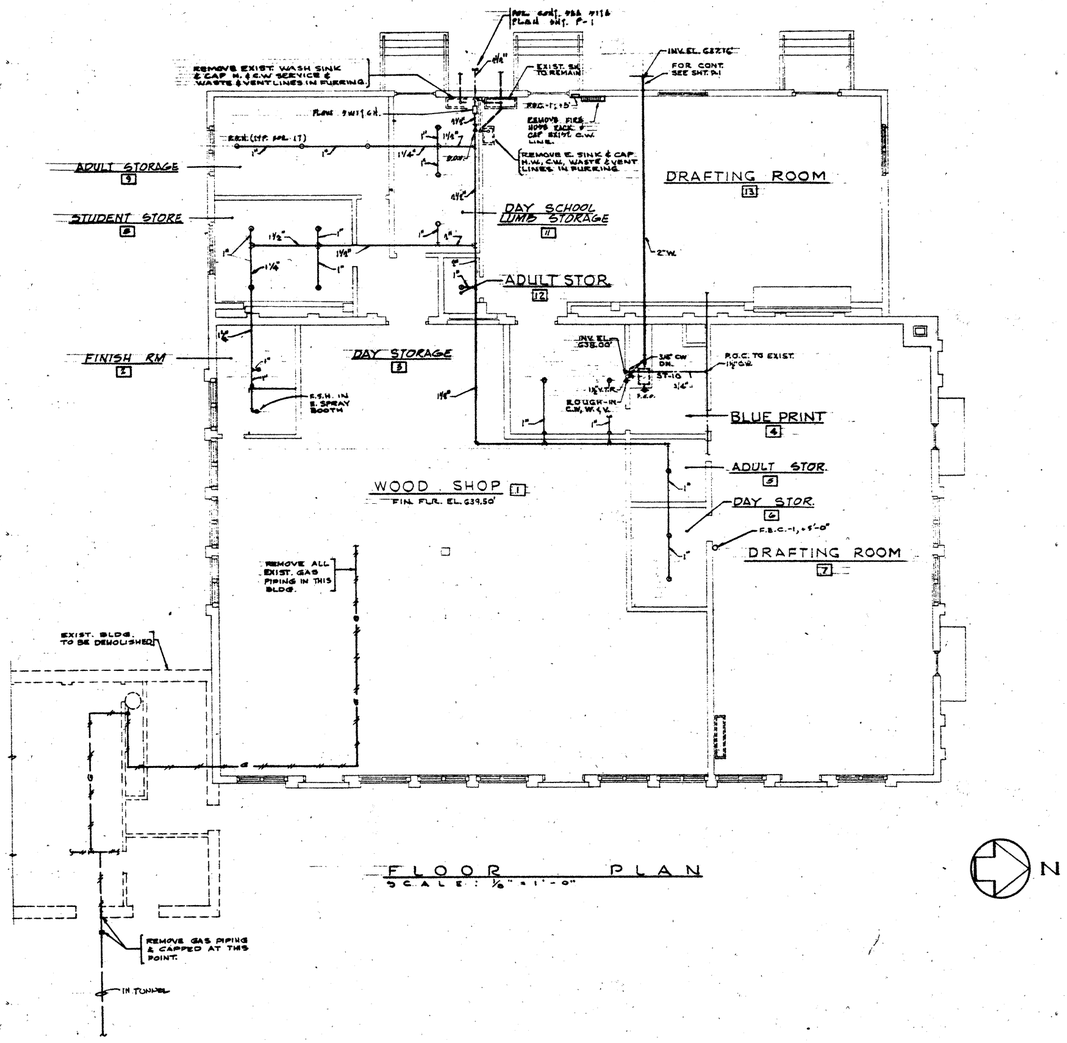
PART FLOOR PLAN
SCALE: 1/4" = 1'-0"

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS — OFFICE OF ARCHITECTURE AND CONSTRUCTION
25154 25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA	ZORAH E. SHEFFNER STRUCTURAL ENGINEER 3808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF. REG. NO. S-E 795	ARCHITECT DATE Dec. 1964	SHEET TITLE NEW SHOP BLDG. & AUTO SHOP PLUMBING	JOB NO. G101
APPLICATION NUMBER APPROVED DATE SUPERVISING STRUCTURAL ENGINEER	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE DEC 29 1964 BY [signature]	GARRETT ENGINEERS CONSULTING ELECTRICAL ENG. 2614 W. 7th STREET - LOS ANGELES 57, CALIF. REG. NO. E-5699	APPROVED DATE	NORTH HOLLYWOOD HIGH SCHOOL 1231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA BOARD OF EDUCATION LOS ANGELES UNIFIED SCHOOL DISTRICT	SCALE 1/8" = 1'-0"
	DATE	STEPHEN T. BERKY CONSULTING MECHANICAL ENG. 2108 BERKELEY BLVD. - LOS ANGELES 57, CALIF. REG. NO. M-5687 [signature]	REVISIONS	ALBERT CRIZ A.I.A. INC. ARCHITECT 8800 WILSHIRE BLVD. BEVERLY HILLS, CALIF.	DRAWN BY
		G. SHUIRMAN & ASSOCIATES CONSULTING TOTAL ENGINEERS 5657 WILSHIRE BLVD. - LOS ANGELES 36, CALIF. REG. NO. C-E 5643			CHECKED BY
					SHEET NO. P2 OF 3 SHEETS

HOLLYWOOD HIGH JOB #296 - PLUMBING - METAL-GRAPHIC AUTO SHOP [redacted]



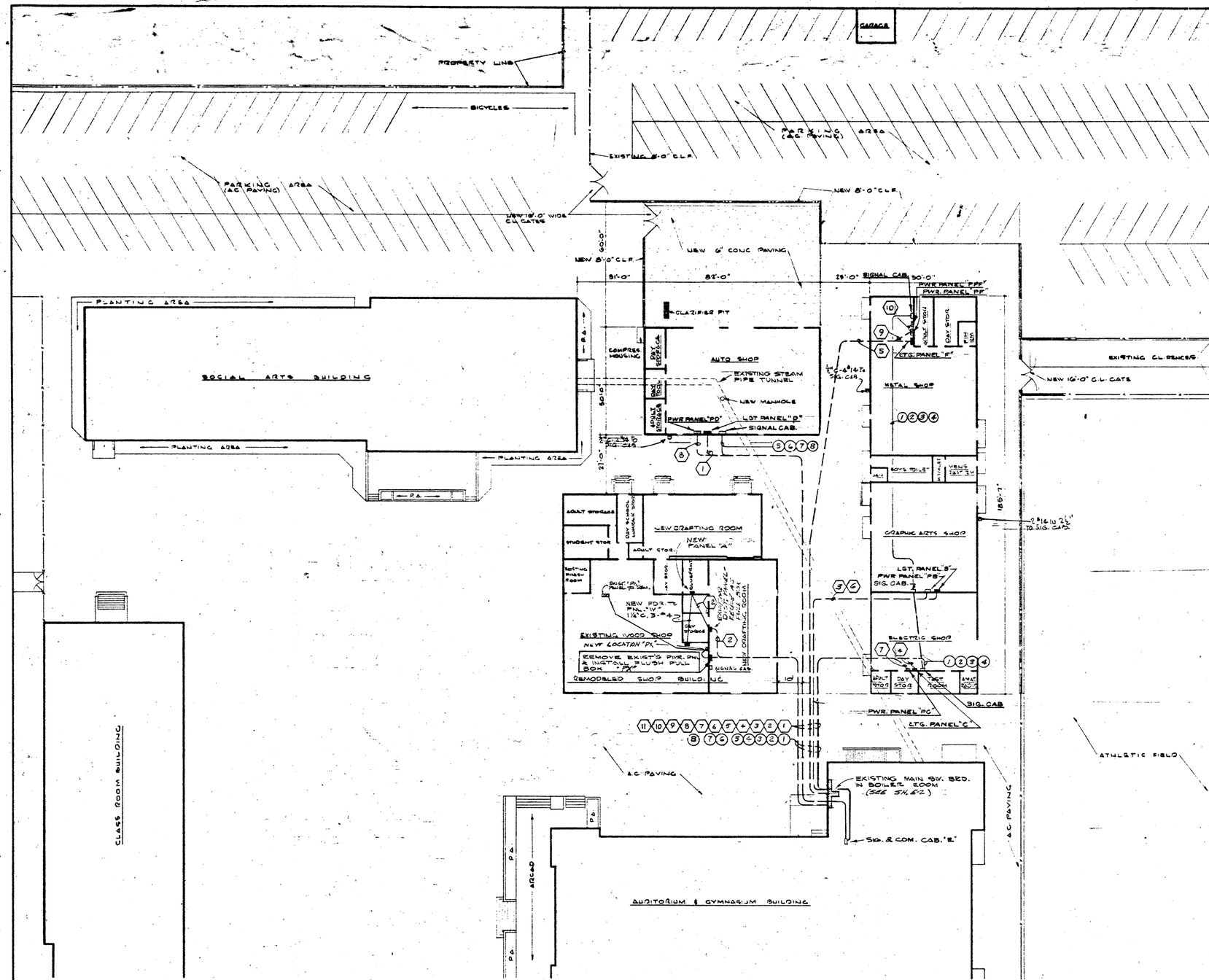
FLOOR PLAN
SCALE: 1/8" = 1'-0"

8786.24

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
OFFICE OF ARCHITECTURE AND CONSTRUCTION
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA	ZORAH E. SHEFFNER STRUCTURAL ENGINEER 9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF. REG. NO. S.E. 795	ARCHITECT DATE DEC. 1964	SHEET TITLE EXISTING SHOP BUILDING PLUMBING	JOB NO. G101 SCALE 1/8"=1'-0"
APPLICATION NUMBER APPROVED DATE SUPERVISING STRUCTURAL ENGINEER	APPROVED STATE FIRE MARSHAL STATE OF CALIFORNIA DATE DEC 29 1964 BY [signature] DATE	GARRETT ENGINEERS CONSULTING ELECTRICAL ENG. 2614 W. 7th STREET - LOS ANGELES 57, CALIF. REG. NO. E-1489	APPROVED DATE	ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE NORTH HOLLYWOOD, CALIFORNIA PREPARED FOR THE BOARD OF EDUCATION LOS ANGELES UNIFIED SCHOOL DISTRICT	DRAWN BY CHECKED BY
		STEPHEN T. BERRY CONSULTING MECHANICAL ENG. 2110 BEVERLY BLVD. LOS ANGELES 57, CALIF. REG. NO. M-5860 [signature]	REVISIONS 12-31-66 M.G.	ALBERT CRIZ A.I.A. INC. ARCHITECT 9800 WILSHIRE BLVD. BEVERLY HILLS, CALIF.	SHEET NO. P3 OF 3 SHEETS
		G. SHUIRMAN & ASSOCIATES CONSULTING CIVIL ENGINEERS 5657 WILSHIRE BLVD. - LOS ANGELES 36, CALIF. REG. NO. C.E. 9653			

HOLLYWOOD HIGH JOB #296 - PLUMBING - WOODSHOP - DRAFT. ROOM [redacted]



CONDUIT SCHEDULE

COND. NO.	SIZE	WIRE	FROM	TO	SERVICE
1	1"C	4 #12	CABINET "E"	ELEC. SHOP	BELL & FA
2		2 #12			P.A.
3		3 #12			TEL.
4		3 #12			CLOCK
5		4 #12		AUTO SHOP	BELL & FA
6		2 #12			P.A.
7		3 #12			TEL.
8		3 #12			CLOCK

ELECTRICAL PARTIAL SITE PLAN

1" = 20'-0"

N

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
OFFICE OF ARCHITECTURE AND CONSTRUCTION
25154
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

REGISTERED PROFESSIONAL ENGINEER
ROBERT E. GARRETT
No. 5899
ELECTRICAL
STATE OF CALIFORNIA

GARRETT ENGINEERS
ELECTRICAL ENGINEER
REGISTRATION NUMBER 5899

ARCHITECT
DATE DEC. 1964
APPROVED
DATE
REVISIONS
AS BUILT 12-31-66 NS

SHEET TITLE
PARTIAL SITE PLAN
ELECTRICAL

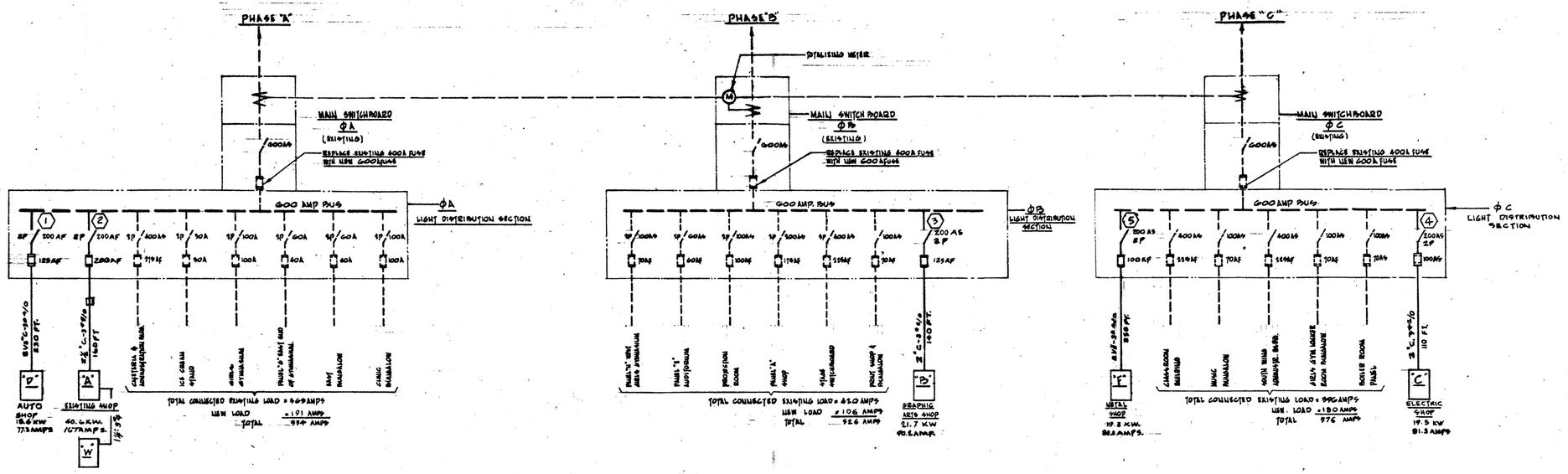
JOB NO. 6101
SCALE 1"=20'
DRAWN BY MS
CHECKED BY

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9608 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

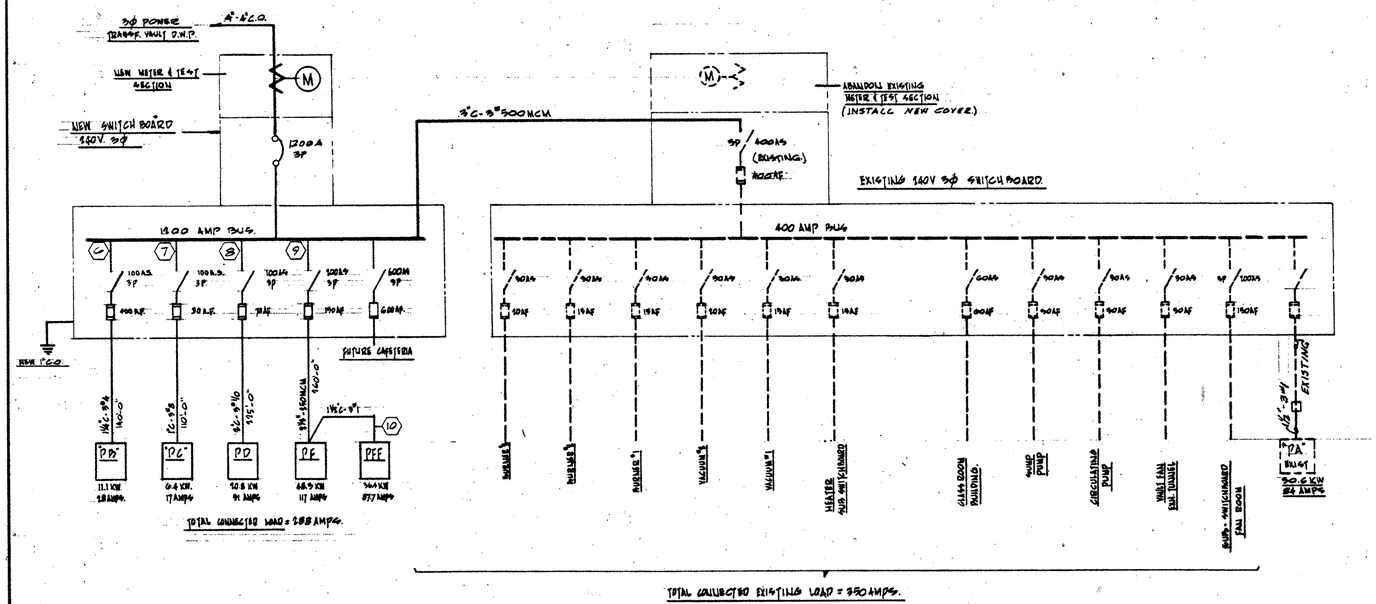
SHEET NO. E-1
OF 11 SHEETS

8786.24

53



SINGLE LINE DIAGRAM 120/240V 1Φ SERVICE



SINGLE LINE DIAGRAM 240V 3Φ POWER

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS — DIVISION OF ARCHITECTURE
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7TH STREET • LOS ANGELES 57, CALIF.
REG. NO. E 5699

STEPHEN T. BERKY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. • LOS ANGELES 13, CALIF.
REG. NO. M-5880

G. SHUIRMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
5657 WILSHIRE BLVD. • LOS ANGELES 36, CALIF.
REG. NO. C.E. 9-83

SHEET TITLE
SINGLE LINE DIAGRAM

JOB NO. 6101

DATE Dec. 1964

NORTH HOLLYWOOD HIGH SCHOOL
5701 COLFAX AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION

GARRETT ENGINEERS
ELECTRICAL ENGINEER
REGISTRATION NUMBER 5699
2614 W. 7TH ST. LOS ANGELES 57

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

SHEET NO. E-2 OF 11 SHEETS

8786.24

FIXTURE SCHEDULE

TYPE	MANUFACTURE	CATALOG NO.	SURFACE	RECESSED	PENDANT	WATTS	LAMPS	REMARKS
A	SEE SPEC.	SL-282			●	400	2	F072W FLUORESCENT
A-1	SEE SPEC.	SL-282			●	150	2	
C	HOLOPHANE	413-LA	●					EXTERIOR WALL BRACKET
D	SEE SPEC.				●	200	1	CAST VAPORPROOF INTERIOR
F					●	200	1	" " " EXTERIOR
F-1	SEE SPEC		●			200	1	CAST VAPOR - BOX MOUNT.
G	SMOOT HOLLMAN	666C-LA	●			300		SURF. GLOBE
G-1	" "	666C-LA	●			500		" " "
G-2	SMOOT HOLLMAN	666C-LA	●			300		SURF. GLOBE
H	RUSSEL & STOLL	ELJ 40 AG	●			150		FINISH RM. - E.P.
J	SMOOT HOLLMAN	LH-1115	●					CEILING DRUM
K	SUNBEAM	Solid PB		●				FLUSH INC. SQUARE
L	SEE SPEC.				●	300		RLM DOME - PEND
L-1	SEE SPEC.		●			500		RLM DOME - PEND
M	SUNBEAM	# 81	●					DISPLAY CASE
P	SEE SPEC.		●			100		PORC. RECT.
R	SMOOT HOLLMAN	N.D. 286			●	200		PND. FLUORESCENT.
R-1	SMOOT HOLLMAN	N.D. 142			●	100		PND. FLUORESCENT.
V	SEE SPEC.		●			150		

LEGEND

- FLUORESCENT FIXTURE & OUTLET
- FLUORESCENT FIXTURE & OUTLET (CORNICE, CANOPY OR CASE)
- INCANDESCENT FIXTURE & OUTLET SURFACE OR PENDANT
- INCANDESCENT FIXTURE & OUTLET WALL MTD.
- INCANDESCENT FIXTURE & OUTLET RECESSED
- EXIT LIGHT FIXTURE & OUTLET
- FLOODLIGHT
- SPECIAL FIXTURE
- CONVENIENCE DUPLEX RECEPTACLE
- SPECIAL OUTLET
- FLOOR RECEPTACLE
- JUNCTION BOX
- CLOCK OUTLET
- PUBLIC TELEPHONE - WALL OUTLET Mt. at + 12"
- PUBLIC TELEPHONE OUTLET
- INTERCOMMUNICATION OUTLET Mt. at + 12".
- FLOOR CONDUIT OUTLET
- TELEVISION OUTLET
- SPEAKER OUTLET
- CLOCK
- BELL SYSTEM SWITCH - Mt. at + 54"
- DIMMER "
- 3 WAY "
- 4 WAY "
- MOTOR & CUBICLE SWITCH
- KEY LOCK SWITCH
- WIRE GUARD & PILOT LIGHT W.P. PROTECTION
- BATTERY UNIT - RECESSED
- BATTERY UNIT - SURFACE
- CIRCUIT BREAKER
- CLOCK
- WIND SWITCH
- ZIPPER SWITCH
- SWITCH TYPE - 1 MOMENTARY CONTACTS
- " " - 2 " "
- MOTOR
- RECEPTACLE PIN CONFIGURATION
- PLUG PIN - 15A 125 VOLTS AC
- SPEAKER
- BELL
- WEATHER PROOF
- RACEWAY IN WALL OR CEILING
- RACEWAY IN OR UNDER FLOOR, UNDERGROUND OR IN WALL
- RACEWAY EXPOSED
- FLOOR DUCT & JUNCTION BOX
- CONDUIT PANEL
- 1/2" C. - 3/4"E
- 1/2" C. - 1"E
- 3/4" C. - 1"E
- 3/4" C. - 1 1/4"E
- 1" C. - 1 1/2"E
- FIRE ALARM BREAK GLASS STATION
- RESLITE

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
DIVISION OF ARCHITECTURE AND CONSTRUCTION
~~25124~~
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER
DATE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY
DATE

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
3808 WILSHIRE BLVD - BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7TH ST. - LOS ANGELES 57, CALIF.
REG. NO. E 5699

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
444 S. SPRING ST. - LOS ANGELES 13, CALIF.
REG. NO. M-3690

G. SHUIRMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
5657 WILSHIRE BLVD. - LOS ANGELES 36, CALIF.
REG. NO. C 5781

DESIGNED
DATE DEC. 1964
APPROVED
DATE
REVISIONS

SHEET TITLE: SYMBOLS & SCHEDULE

JOB NO. 6101
SCALE
DRAWN BY
CHECKED BY
SHEET NO. E-3
OF 11 SHEETS

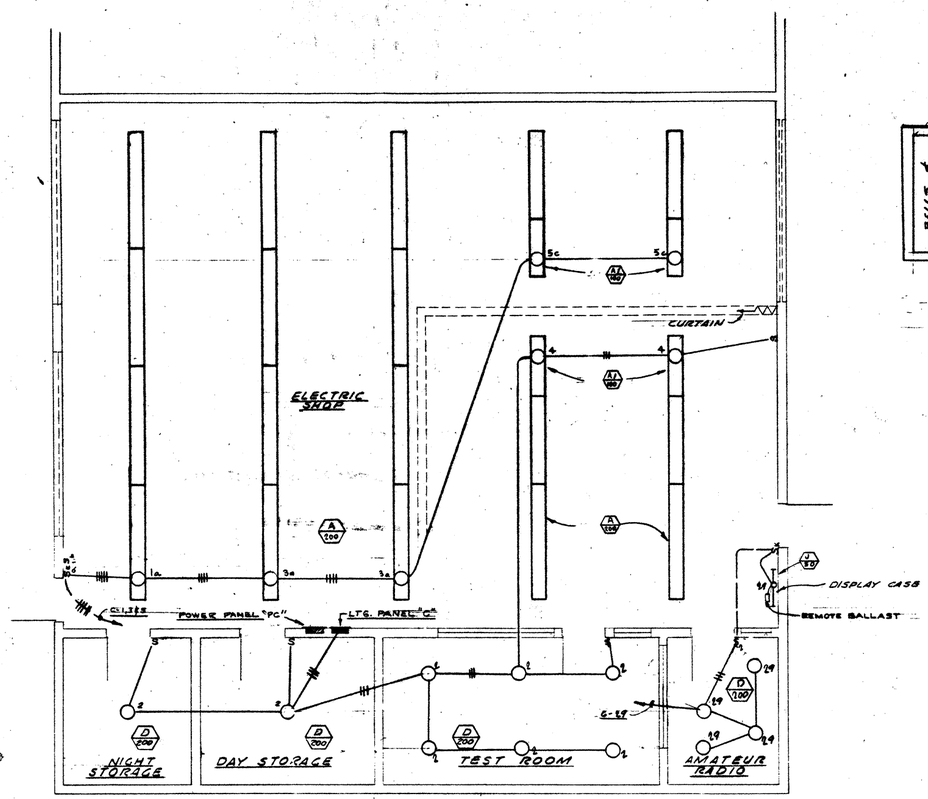
NORTH HOLLYWOOD HIGH SCHOOL
LANKERSHIM AVENUE
NORTH HOLLYWOOD, CALIFORNIA
BOARD OF EDUCATION

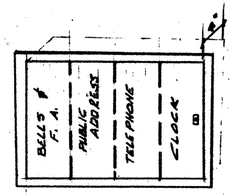
ALBERT CRIZ A.I.A. INC.
ARCHITECT
8808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

REGISTERED PROFESSIONAL ENGINEER
ROBERT E. GARRETT
No. 5699
ELECTRICAL
STATE OF CALIFORNIA

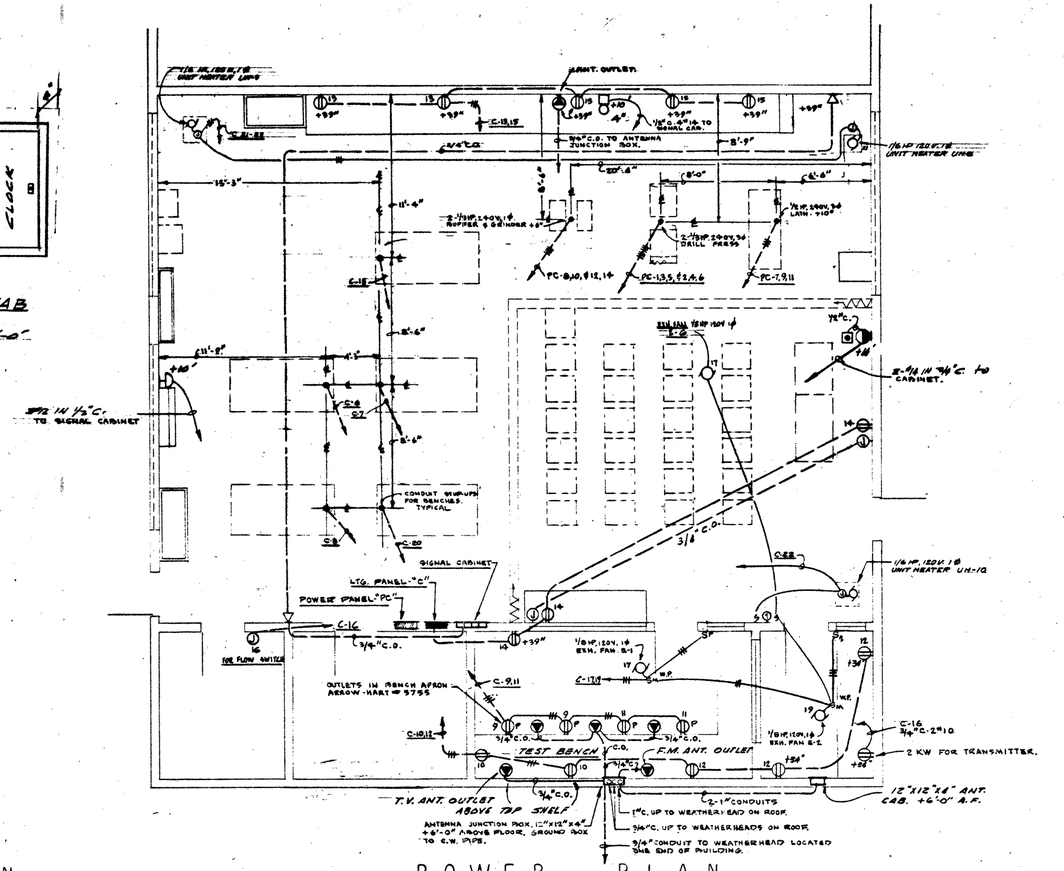
GARRETT ENGINEERS
ELECTRICAL ENGINEER
REGISTRATION NUMBER 5498
2614 W. 7TH ST. LOS ANGELES 57
DU 8-2161

8786 24





SIGNAL CAB DETAIL
SCALE: 1" = 1'-0"



LIGHTING PLAN

N

POWER PLAN

ELECTRIC SHOP

SCALE 1/4" = 1'0"

ELECTRIC SHOP PANEL C

CKT	WIRE	BKR	REMARKS	WATTS
1	12	20 A	ELECT. SHOP	800
2		B	STOR, TEST,	1680
3		C	ELECT. SHOP	1600
4		G		1000
5		4		600
6				1080
7				1080
8				1080
9		2	TEST ROOM	360
10		2		360
11		2		360
12		2	RADIO AM	540
13		2	ELECT SHOP	360
14		2	ELECT SHOP	540
15	12	2	ELECT SHOP	540
16	10	30	TRANSMITTER	2000
17	12	20	1/6 H.P. EXH. FAN E-1	650
18			ELECT. SHOP	1080
19			1/6 H.P. EXH. FAN E-2	350
20			ELECT SHOP	1080
21			1/6 H.P. EXH. FAN UH-8	530
22			1/6 H.P. EXH. FAN UH-10	530
23			1/6 H.P. EXH. FAN UH-9	530
24		20	SPARE	—
25		20	SPARE	—
26		20	SPARE	—
27		20	SPARE	—
28		20	SPARE	—
29	12	20	RADIO RM & DISPL. CASE	1160
30			SPARE	

TOTAL WATTS 19,510 • • TOTAL K. W. = 19.5 • • •

81.3 AMPERES @ 120/240 VOLTS • 1 PHASE • 60 CYCLES 3 W. S. N.

COND. W/ # CABLES • LOC.

MAIN 100A 2P MOUNT FLUSH

Ⓓ - DENOTES CIRCUIT BREAKER HANDLE LOCKOUT DEVICE

PANEL PC

CKT	WIRE	BKR	REMARKS	WATTS
1	12	20	7½HP, 240V, 3Ø	233
2	12	20	7½HP, 240V, 3Ø	235
3	—	—	SEE CKT # 1	235
4	—	—	" " 2	235
5	—	—	" " 1	235
6	—	—	" " 2	235
7	12	20	10HP, 240V, 3Ø	320
8	12	20	10HP, 240V, 1Ø	350
9	—	—	SEE CKT # 7	320
10	—	—	" " 8	320
11	—	—	" " 7	320
12	12	20	7½HP, 240V, 1Ø	350
13	12	20	SPARE	1000
14	—	—	SEE CKT # 12	350
15	—	—	SEE CKT # 13	1000
16	—	—	SPARE	
17	—	—	SEE CKT # 13	1000
18	12	20	SPARE	
19	12	20		
20	—	—		
21	—	—		
22	12	20		
23	12	20		
24	—	—		
25	—	—		
26	—	—		
27	—	—		
28	—	—		
29	—	—		
30	—	—	SPARE	

TOTAL WATTS 6480 • • • TOTAL K. W. • • •

17 AMPERES @ 240 VOLTS • 3 PHASE • 60 CYCLES 3 W. S. N.

COND. W/ # CABLES • LOC.

MAIN 175A 3P MOUNT FLUSH

Ⓓ - DENOTES CIRCUIT BREAKER HANDLE LOCKOUT DEVICE

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE AND CONSTRUCTION
APPLICATION 25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAH E. SNEDEKER
CIVIL ENGINEER
9808 WILSHIRE BLVD. · BEVERLY HILLS CALIF.
HOS NO. S & M

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2514 W. 7TH STREET · LOS ANGELES 57, CALIF.
REG NO. E 5689

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
600 S. JOHN HILL ST. · LOS ANGELES 13, CALIF.
REG NO. M 10060

G. SHUHMAN & ASSOCIATES
CONSULTING STRUCTURAL ENGS.
8687 W. OLYMPIC BLVD. · LOS ANGELES 35, CALIF.
REG NO.

REGISTERED PROFESSIONAL ENGINEER ROBERT E. GARRETT No. 5689 ELECTRICAL STATE OF CALIFORNIA

GARRETT ENGINEERS
ELECTRICAL ENGINEER
REGISTRATION NUMBER 5689
2514 W. 7TH ST. LOS ANGELES 57

ARCHITECT
DATE Dec. 1964
APPROVED
DATE
REVISIONS

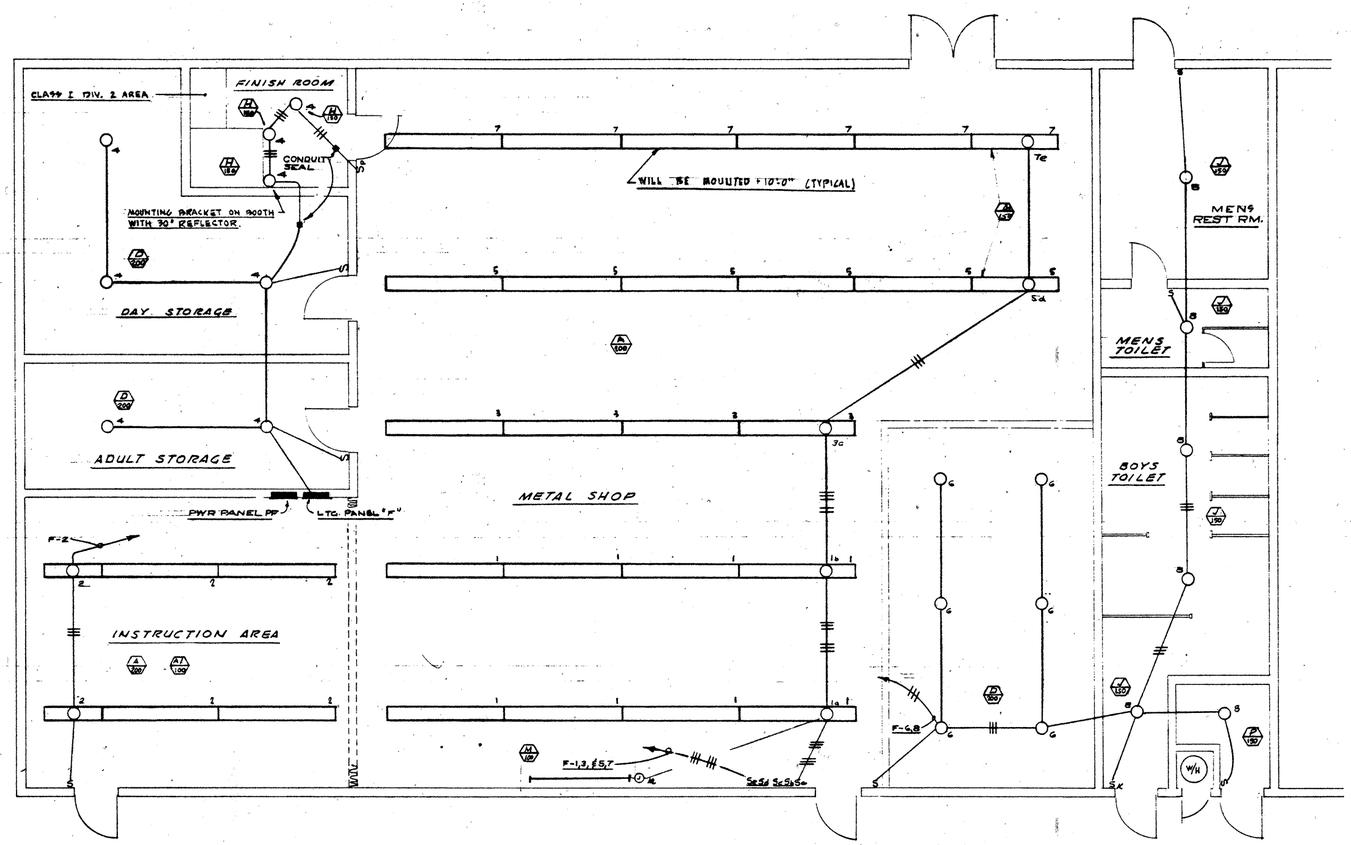
SHEET TITLE: LIGHTING & POWER PLANS ELECTRIC SHOP
JOB NO. 6101
SCALE 1/4"=1'-0"
DRAWN BY
CHECKED BY
SHEET NO. E-4
OF 11 SHEETS

NORTH HOLLYWOOD HIGH SCHOOL
NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
OF THE CITY OF LOS ANGELES

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

8786:24

[redacted]3.24



L I G H T I N G P L A N

N

M E T A L S H O P & T O I L E T S

METAL SHOP PANEL "F"

CIR. NO.	CIR. BRKR POLE	CIR. BRKR AMP.	OUTLETS LTS.	OUTLETS REC.	OUTLETS MISC.	REMARKS	WATTS L-1	WATTS L-2	WATTS L-3
1	1	20	8			METAL SHOP	1600		
2			6			INSTRUCTION AREA	1000		
3			4			METAL SHOP		800	
4			8			STORAGE ROOM		1600	
5			6			METAL SHOP	1200		
6			6			METAL SHOP	1200		
7			6			METAL SHOP		1200	
8			6			TOILET		1200	
9				4		METAL SHOP	720		
10				1			1000		
11				5				900	
12				1				1000	
13					1	1/2 HP, 120 V 1 ϕ FORGE	800		
14					2	1/6 HP, EXH. FANS, E-6 & E-8	700		
15					1	1/2 HP 120 V 1 ϕ CRUCIBLE		800	
16					1	1/6 HP, EXH. FAN, E-5		350	
17					2	1/10 HP, UNIT HTRS, UH-3, UH-4	600		
18						SPARE	1000		
19					2	1/10 HP, UNIT HTRS, UH-2, UH-5		600	
20	1	20				SPARE		1000	
21						SPARE			
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									

TOTAL WATTS 19,270 = A TOTAL C.W. 19.3 . . .
80.3 AMPERES @ 120/240 VOLTS = 1 PHASE = 60 CYCLES 3 W. & N.
= CONG. W/ 4 CABLES = LOC.
MAIN 100A-2P MOUNT FLUSH, 100A, BUS

⊖ - DENOTES CIRCUIT BREAKER HANDLE LOCKOUT TYPE

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

DATE

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
3408 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
REG. NO. S-5795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET • LOS ANGELES 57, CALIF.
REG. NO. E-5699

STEPHEN T. BERKY
CONSULTING MECHANICAL ENG.
456 S. SPRING ST. • LOS ANGELES 13, CALIF.
REG. NO. M-5880

G. SHUIRMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
5657 W. SHIRE BLVD. • LOS ANGELES 36, CALIF.
REG. NO. C-6963

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
25153 APPROVED DEC 29 1964
BY

ARCHITECT
DATE DEC. 19/64
APPROVED
DATE
REVISIONS

SHEET TITLE
LIGHTING PLAN
METAL SHOP & TOILETS

NORTH HOLLYWOOD HIGH SCHOOL
PREPARED FOR THE
BOARD OF EDUCATION

ALBERT CRIZ A.I.A. INC.
ARCHITECT
3408 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE 1/4" = 1'-0"
DRAWN BY
CHECKED BY
SHEET NO. E-5
OF 11 SHEETS

GARRETT ENGINEERS
ELECTRICAL ENGINEER
REGISTRATION NUMBER 3693
2614 W. 7th ST. LOS ANGELES 57
DU 8-2341

8786.24

[redacted]

METAL SHOP PANEL "PF"

CKT. NO.	POLE	AMP	OUTLETS LTS.	OUTLETS REC.	OUTLETS MISC.	REMARKS	WATTS L1	WATTS L2	WATTS L3
1	3	20			1	¾ HP 240V 3Ø SHAPER	400		
2	3	20			1	¾ HP 240V 3Ø GRINDER	400		
3	—	—				SEE CKT #1		400	
4	—	—				" #2			400
5	—	—				" #1	400		
6	—	—				" #2		400	
7	3	20			1	1HP 240V 3Ø MILLING MACH	500		
8	3	20			1	1HP 240V 3Ø SAW	500		
9	—	—				SEE CKT #7		500	
10	—	—				" #8		500	
11	—	—				" #7	500		
12	—	—				" #8		500	
13	3	20			1	½ HP 240V 3Ø DRILL PRESS	225		
14	3	20			1	¾ HP 240V 3Ø DRILL PRESS	400		
15	—	—				SEE CKT #13		225	
16	—	—				" #14	400		
17	—	—				" #13		225	
18	—	—				" #14		400	
19	3	20			1	½ HP 240V 3Ø GRINDER	225		
20	3	20			1	1 HP 240V 3Ø GRINDER	500		
21	—	—				SEE CKT #19		225	
22	—	—				" #20	500		
23	—	—				" #19		225	
24	—	—				" #20		500	
25	3	20			1	1HP 240V 3Ø BUFFER	500		
26	3	20			1	1HP 240V 3Ø LATHE	500		
27	—	—				SEE CKT #25		500	
28	—	—				" #26		500	
29	—	—				" #25	500		
30	—	—				" #26		500	
31	3	20			1	1HP 240V 3Ø LATHE	500		
32	3	20				SPARE BREAKER	1000		
33	—	—				SEE CKT #31		500	
34	—	—				" #36		1000	
35	—	—				" #31	500		
36	—	—				" #32		1000	
37	3	90			1	SUB-FEED "PFF"	11700Ⓓ		
38	3	50				SPARE			
39	—	—				SEE CKT #37		11700	
40	—	—				SPARE			
41	—	—				SEE CKT #37		7500	
42	—	—				SPARE			

TOTAL WATTS 48,810 — TOTAL K.W. 48.8

FIXTURES @ 240 — VOLTS 3 — PHASE 60 CYCLES — 3 W.I.R.

COND. W/ # — CABLES + LOC.

MAIN 225A SP — MOUNT FLUSH — BUS A. BUS

Ⓓ - DENOTES CIRCUIT BREAKER HANDLE LOCKOUT DEVICE

METAL SHOP PANEL "PFF"

CKT. NO.	POLE	AMP	OUTLETS LTS.	OUTLETS REC.	OUTLETS MISC.	REMARKS	WATTS L1	WATTS L2	WATTS L3
1	3	20			1	1HP 240V 3Ø LATHE	500		
2	3	20			1	1HP 240V 3Ø LATHE	500		
3	—	—				SEE CKT #1		500	
4	—	—				" #2		500	
5	—	—				" #1	500		
6	—	—				" #2		500	
7	3	40			1	240V 3Ø ARC WELDER	4500		
8	3	70			1	240V 1Ø SPOT WELDER	5900		
9	—	—				SEE CKT #7		4500	
10	—	—				" #8		5900	
11	—	—				" #7	4500		
12	—	—				SPARE	1600		
13	3	20			1	1½HP 240V 3Ø SPRAY BOOTH	350		
14	3	20				SPARE	1500		
15	—	—				SEE CKT #13		350	
16	—	—				" #14		1500	
17	—	—				" #13	550		
18	—	—				" #14		1500	
19	2	20			1	1/3HP EXH. FAN E-1	250		
20	3	30				SPARE			
21	—	—				SEE CKT #19	250		
22	—	—				SPARE			250

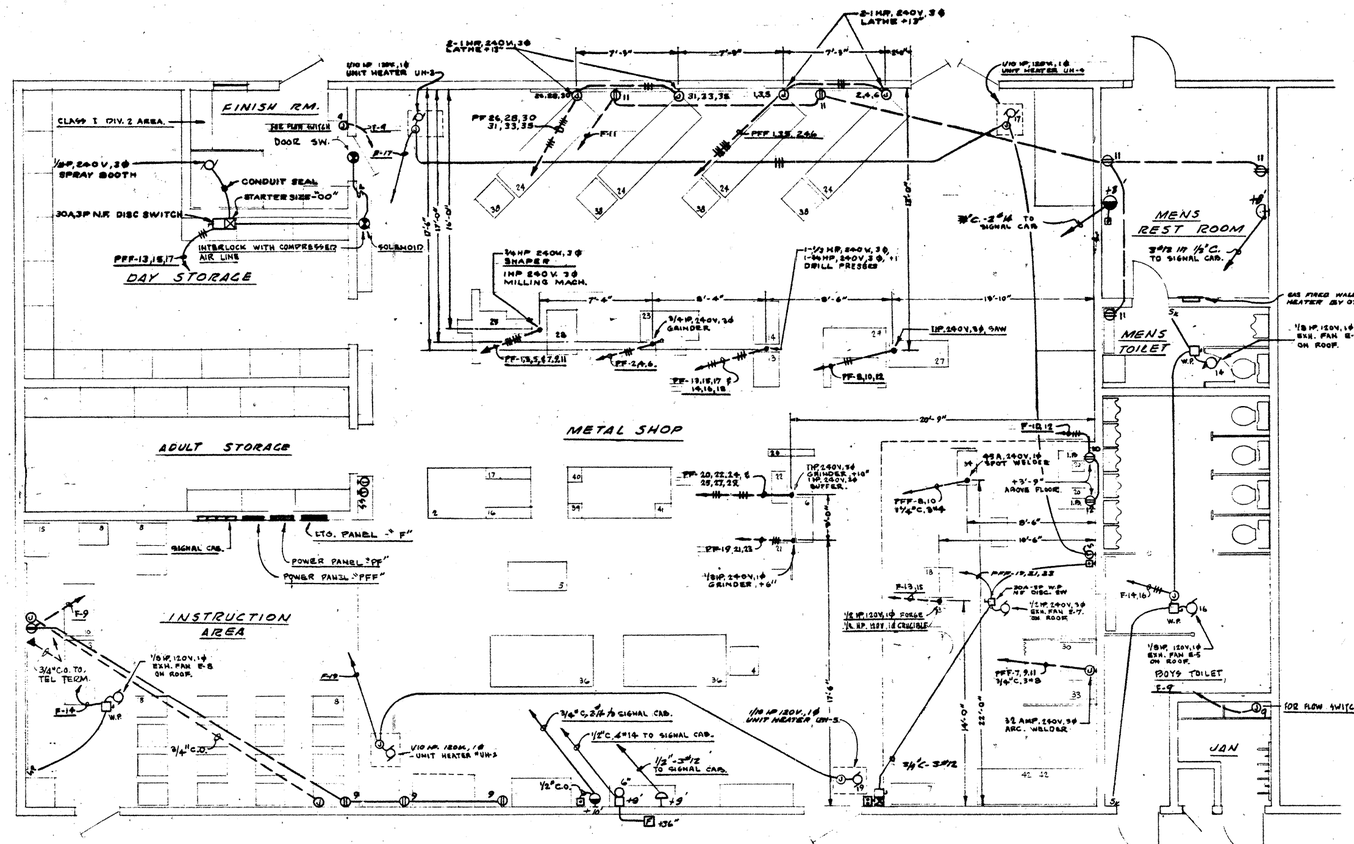
TOTAL WATTS 36400 — TOTAL K.W. 36.4

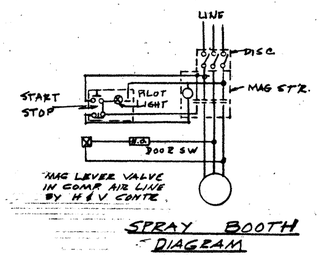
87.7 AMPERES @ 240 — VOLTS 3 — PHASE 60 CYCLES — 3 W.I.R.

COND. W/ # — CABLES + LOC.

MAIN 100A SP — MOUNT FLUSH — BUS A. BUS

Ⓓ - DENOTES CIRCUIT BREAKER HANDLE LOCKOUT DEVICE





SPRAY BOOTH DIAGRAM

N

POWER PLAN

METAL SHOP & TOILETS

SCALE 1/8" = 1'-0"

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES — DIVISION OF ARCHITECTURE AND CONSTRUCTION
2515 & 25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER
DATE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. - BEVERLY HILLS, CALIF.
REG. NO. S.E. 1745

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET - LOS ANGELES 57, CALIF.
REG. NO. E 5699

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
656 S. SPRING ST. - LOS ANGELES 13, CALIF.
REG. NO. M 5680

B. SHURMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
5657 WILSHIRE BLVD. - LOS ANGELES 36, CALIF.
REG. NO. C.E. 9681

DRAWN Robert Criz
DATE DEC. 19/64
APPROVED
DATE
REVISIONS

SHEET TITLE
POWER PLAN
METAL SHOP & TOILETS

JOB NO. 6101
SCALE 1/4"=1'-0"
DRAWN BY
CHECKED BY
SHEET NO. E-6
OF 11 SHEETS

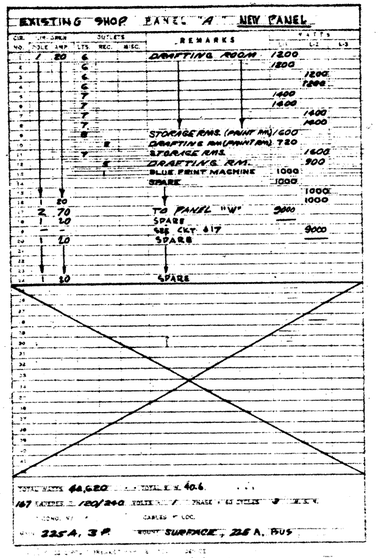
ADDITIONS, ALTERATIONS AND ALTERATIONS TO EXISTING SHOP BUILDING FOR
NORTH HOLLYWOOD HIGH SCHOOL
5231 CLESS AVENUE — NORTH HOLLYWOOD, CALIFORNIA
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES CITY UNIFIED SCHOOL DISTRICT

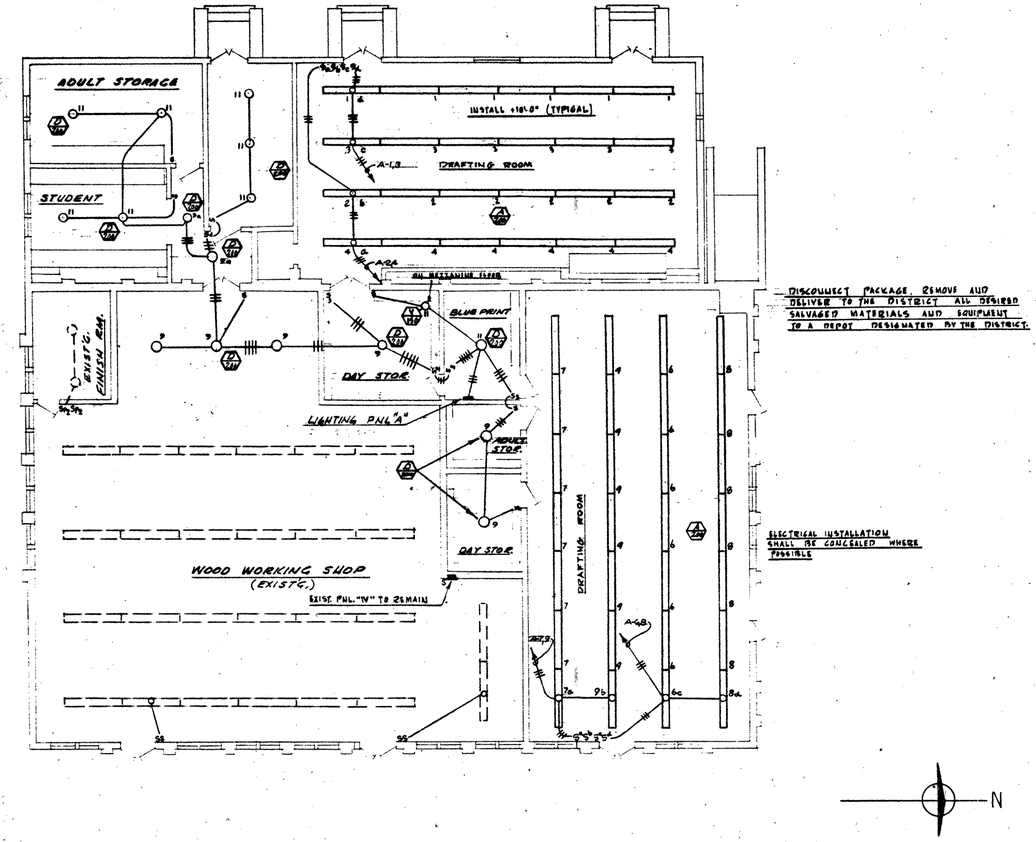
ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

REGISTERED PROFESSIONAL ENGINEER — ROBERT E. GARRETT — 5699 — ELECTRICAL — STATE OF CALIFORNIA

GARRETT ENGINEERS
ELECTRICAL ENGINEER
REGISTRATION NUMBER 5699
2614 W. 7TH ST. LOS ANGELES 57
DU 8-2241

8786.24





L I G H T I N G P L A N

SCALE 1/8" = 1'-0"

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
25154
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
REG. NO. 5-5-58

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7th STREET • LOS ANGELES 57, CALIF.
REG. NO. E-5699

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. • LOS ANGELES 13, CALIF.
REG. NO. M-1880

G. SHURMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
5601 WILSHIRE BLVD. • LOS ANGELES 36, CALIF.
REG. NO. C-E 1632

ARCHITECT
DATE DEC. 10 1964
APPROVED
DATE
REVISIONS

SHEET TITLE
LIGHTING PLAN
EXISTING SHOP BLDG.

NORTH HOLLYWOOD HIGH SCHOOL
BOARD OF EDUCATION

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE 1/8" = 1'-0"
DRAWN BY
CHECKED BY
SHEET NO. E-7
OF 11 SHEETS

REGISTERED PROFESSIONAL ENGINEER
ROBERT E. GARRETT
No. 5699
ELECTRICAL
STATE OF CALIFORNIA

GARRETT ENGINEERS
ELECTRICAL ENGINEER
CORPORATION NUMBER 5699
2614 W. 7TH ST. LOS ANGELES 57
DU 5-2341

8786.24

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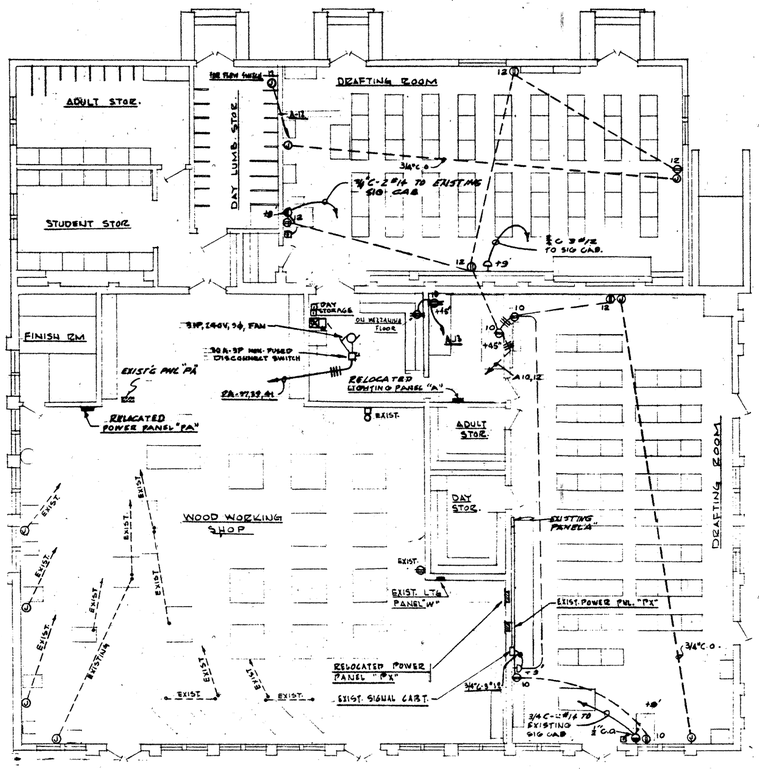


P O W E R P L A N

SCALE 1/8"-1'-0"

EXISTING PANEL "PA"

CIR. NO.	CIR. BRKR. POLE	SW.	TS	OUTLETS REC.	MISC.	REMARKS	WATTS L1	WATTS L2
1	EXISTING					1½ HP RADIAL	600	
2						½ HP MORTISER	920	
3						SEE CKT # 1		600
4						" # 2		920
5						" # 1		600
6						" # 2		920
7						¾ HP DRILL PRESS	400	
8						5 HP CIRCULAR SAW	2000	
9						SEE CKT # 7		400
10						" # 8		2000
11						" # 7		400
12						" # 8		2000
13						5 HP JOINER	1200	
14						5 HP BAND SAW	1200	
15						SEE CKT # 13		1200
16						" # 14		1200
17						" # 13		1200
18						" # 14		1200
19						5 HP PLANER	2000	
20						½ HP LATHE	920	
21						SEE CKT # 19		2000
22						" # 20		920
23						" # 19		2000
24						" # 20		920
25						½ HP LATHE	920	
26						½ HP LATHE	920	
27						SEE CKT # 25		920
28						" # 26		920
29						" # 25		920
30						" # 26		920
31						½ HP LATHE	920	
32						SPACE		
33						SEE CKT # 31		920
34						SPACE		
35						SEE CKT # 31		920
36	EXISTING					SPACE		
37	3 30			1		NEW 5 HP, 208 V, 3Ø FAN	1200	
38	3 30					SPACE		
39	— —					SEE CKT # 37		1200
40						SPACE		
41	— —					SEE CKT # 37		1200
42						SPACE		

EXISTING / NEW

TOTAL WATTS 30,600 TOTAL CONN. W 306 ...

84 AMPERES 3 240 VOLTS 3 PHASE - 60 CYCLES 3 W. S. N.

CONDUIT W/ # CABLES # USE

MAIN 225A 3P MOUNT SURFACE

⊖ - DENOTES CIRCUIT BREAKER HANDLE LOCKOUT DEVICE

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPLICATION NUMBER APPROVED

DATE

SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

DATE

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9908 WILSHIRE BLVD. • BEVERLY HILLS CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7TH STREET • LOS ANGELES 57 CALIF.
REG. NO. E 5695

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
466 S. SPRING ST. • LOS ANGELES 12, CALIF.
REG. NO. M-5880

G. SHUIRMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
5657 WILSHIRE BLVD. • LOS ANGELES 36, CALIF.
REG. NO. C.E. 4483

25153 APPROVED DEC 29 1964

ARCHITECT
DATE DEC. 1964

APPROVED

DATE

REVISIONS

SHEET TITLE
POWER PLAN
EXISTING SHOP BLDG.

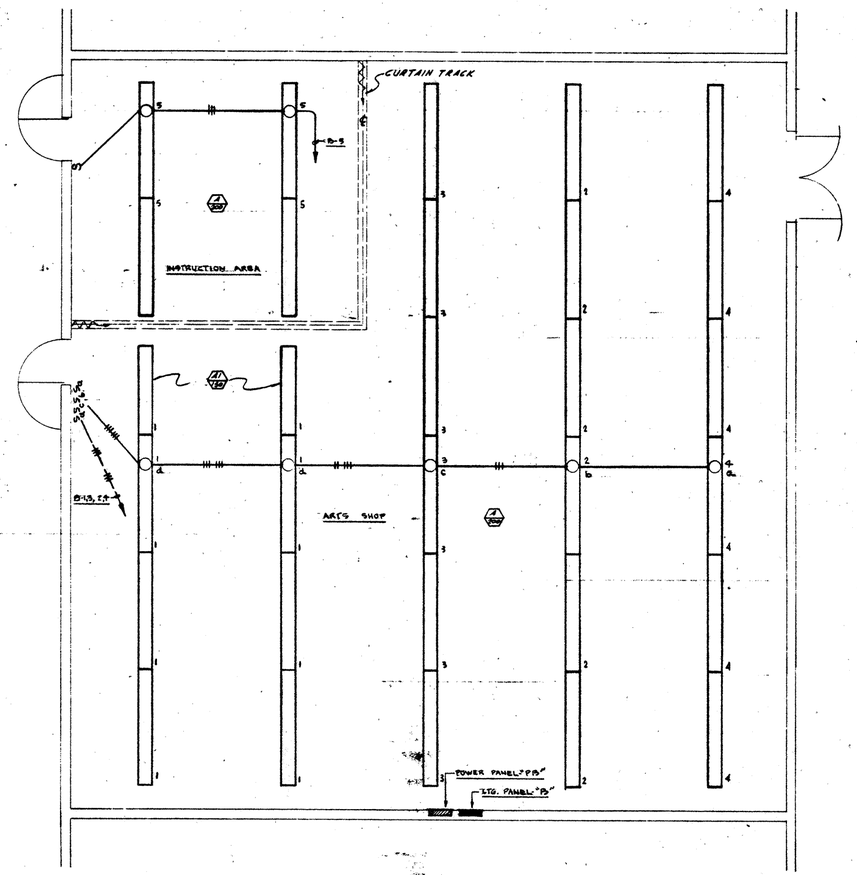
ADDITIONAL FACILITIES AND ALTERATIONS TO EXISTING SHOP BUILDING FOR
NORTH HOLLYWOOD HIGH SCHOOL
PREPARED FOR THE
BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE 1/8"-1'-0"
DRAWN BY
CHECKED BY
SHEET NO. E-8
OF 11 SHEETS

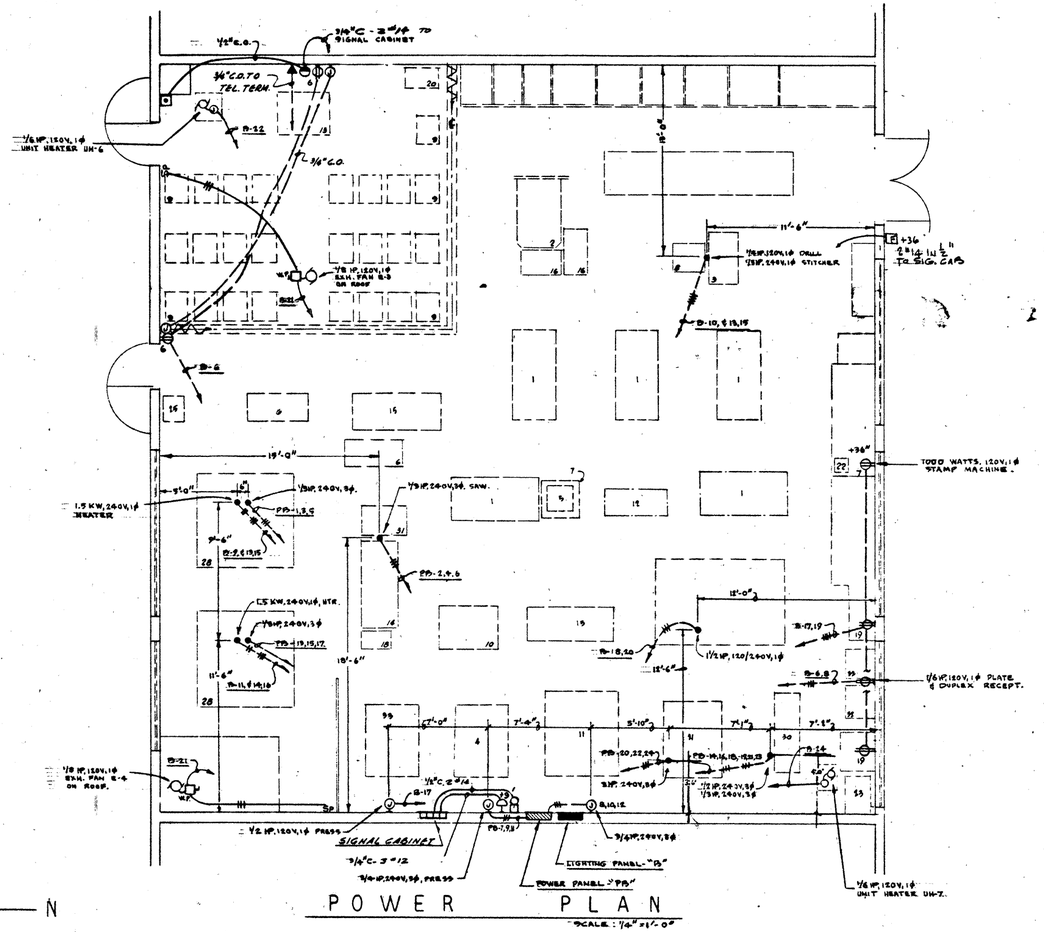
GARRETT ENGINEERS
ELECTRICAL ENGINEER
REGISTRATION NUMBER 5695
2614 W. 7TH ST. LOS ANGELES 57
DU 8-2361

8786.24



LIGHTING PLAN

SCALE: 1/4"=1'-0"



POWER PLAN

SCALE: 1/4"=1'-0"

N

GRAPHIC ARTS

GRAPHIC ARTS PANEL "PB"

CKT. NO.	POLE	AMP	LTS.	REC.	MISC.	REMARKS	WATTS L1	WATTS L2	WATTS L3
1	3	50			B	ARTS SHOP	1750		
2					C		1200		
3					C			1200	
4					C				1200
5						INSTRUCTION AREA	800		
6					B	ARTS SHOP		540	
7					1	STAMP MACHINE	1000		
8					1	1/6 HP, 120V, 1φ	400		
9	—	—			1	ART SHOP	1000		
10	—	—			1	1/6 HP, 120V, 1φ	600		
11	—	—			L	ART SHOP		1000	
12	—	—				SPARE		1000	
13	2	20			1	1.5 KW [illegible]	750		
14	2	20			1	1.5 KW [illegible] 1φ	750		
15	—	—				SEE CKT #13	750		
16	—	—				SEE CKT #13	750		
17	1	20			1	1/3 HP, 120V, 1φ PRESS	800		
18	2	20			1	1/2 HP, 120/240V, 1φ	1200		
19	1	20		C		DUPLEX RECEPT.		1000	
20	—	—				SEE CKT. #15		1200	
21	1	20		C		7/8 HP, EXH. FAN B-9 & E-9	700		
22	1	20			1	1/6 HP, UNIT HTR. UH-6	950		
23		20				SPARE		1000	
24	1	20				7/8 HP. UNIT HTR. UH-7		950	
25		20							
26									
27									
28									
29		20				SPARE			

TOTAL WATTS 21,650 • • TOTAL K. V. A. 21.7 • • •

AMPERES @ 120/240 VOLTS • 1 PHASE • 60 CYCLES • 3 W. S. N.

COND. W/ 4 CABLES • LOC.

MAIN 100 A SR MOUNT FLUSH 225 A. BUS

① - DENOTES CIRCUIT BREAKER WITH LOCK-OUT DEVICE

GRAPHIC ARTS PANEL "PD"

CKT. NO.	POLE	AMP	LTS.	REC.	MISC.	REMARKS	WATTS L1	WATTS L2	WATTS L3
1	3	20			1	1/3 HP, 240V, 3φ	525		
2	3	20			1	1/3 HP, 240V, 3φ	525		
3	—	—				SEE CKT #1		365	
4	—	—				#2		525	
5	—	—				#2			525
6	3	20			1	1/6 HP, 240V, 3φ PRESS	400		
7	3	20			1	1/6 HP, 240V, 3φ	400		
8	—	—				SEE CKT. #7		400	
9	—	—				#8		400	
10	—	—				#8			400
11	—	—				#7			400
12	—	—				#8			400
13	3	20			1	1/3 HP, 240V, 3φ	315		
14	3	20			1	7/8 HP, 240V, 3φ	525		
15	—	—				SEE CKT #15		315	
16	—	—				#16		525	
17	—	—				#15			315
18	—	—				#16			525
19	3	20			1	1/2 HP, 240V, 3φ	600		
20	3	20			1	3HP, 240V, 3φ	1400		
21	—	—				SEE CKT #10		400	
22	—	—				#19		1200	
23						#19			400
24						#20			1200
25						SPARE			
26									
27									
28									
29									
30									
31									
32									
33									
34									
35									
36						SPARE			

TOTAL WATTS 38,100 • • TOTAL K. V. A. 41 • • •

28 AMPERES @ 240 VOLTS • 3 PHASE • 60 CYCLES 3 W. •

COND. W/ 4 CABLES • LOC.

MAIN 100 A SF MOUNT FLUSH, 100 A. BUS

STATE OF CALIFORNIA — DEPARTMENT OF GENERAL SERVICES
OFFICE OF ARCHITECTURE AND CONSTRUCTION
25154
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NUMBER APPROVED
DATE
SUPERVISING STRUCTURAL ENGINEER

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZORAH E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
2614 W. 7TH ST. • LOS ANGELES 57, CALIF.
REG. NO. E 5699

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
668 S. LAFAYETTE PARK PL. • LOS ANGELES 57, CALIF.
REG. NO. M 4340

G. SHUIRMAN & ASSOCIATES
CONSULTING CIVIL ENGINEERS
7657 MONTEVIDEO TERR. • LOS ANGELES 35, CALIF.
REG. NO. C 13643

8786.24

REGISTERED PROFESSIONAL ENGINEER — ROBERT E. GARRETT — NO. 5699 — ELECTRICAL — STATE OF CALIFORNIA

GARRETT ENGINEERS
ELECTRICAL ENGINEER
REGISTRATION NUMBER 5699
2614 W. 7TH ST. LOS ANGELES 57
DU 8-2341

DATE DEC 14/64

APPROVED
DATE

REVISIONS

SHEET TITLE
LIGHTING & POWER PLANS
GRAPHIC ARTS SHOP

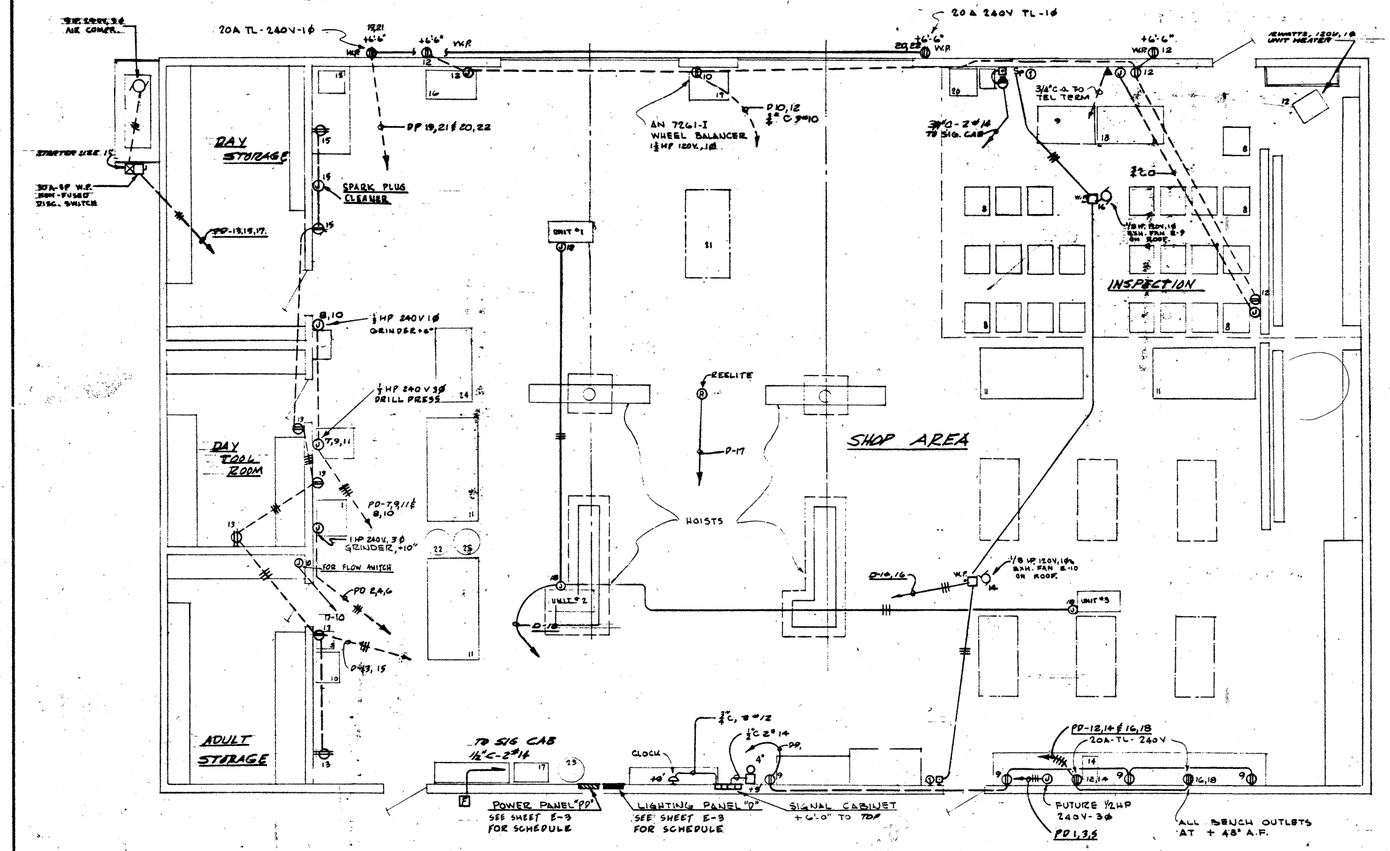
JOB NO. 6101
SCALE 1/4"= 1'-0"
DRAWN BY
CHECKED BY
SHEET NO. E-9

NORTH HOLLYWOOD HIGH SCHOOL
BOARD OF EDUCATION

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	UNIT	HP	VOLT	Ø	AMP
1	GRINDER, 10"	1	1	230	3	
2	DISTRIBUTOR TESTER	1		110		
3	DRILL PRESS, 1/2"	1	1/3	230	3	
4	CHAIR, 18"	2	-	-	-	-
5	CHARGER, BATTERY	1		110		
6	GRINDER, 6"	1	1/3	230	1	
7	LOCKERS	93	-	-	-	-
8	CHAIR, TABLET ARM	25	-	-	-	-
9	DESK, TEACHERS	1	-	-	-	-
10	TRUCK, CYLINDER, WELDING	2				
11	BENCH, WORK	4	-	-	-	-
12	FURNACE, SOLDERING	1				
13	GRINDER, VALVE REFACER	1		110		
14	PRESS, ARBOR	1				
15	SPARK PLUG CLEANER	1		110		
16	TANK, PARTS CLEANING	1		110		
17	CABINET, STORAGE, PAINT	1	-	-	-	-
18	BENCH, TEACHERS DEMO.	1	-	-	-	-
19	BALANCER, WHEEL, PORTABLE	1	1 1/2	120	1	
20	FILING CABINET	1	-	-	-	-
21	CRANE HOIST	1				
22	DISPENCER, GEAR OIL	1	-	-	-	-
23	DRAIN, OIL, PORTABLE	1	-	-	-	-
24	LIFT, END	1	-	-	-	-
25	LUBRICATOR, CHASSIS	1	-	-	-	-



AUTO SHOP
SCALE 1/4" = 1'-0"
POWER PLAN

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF ARCHITECTURE
25153 APPROVED DEC 29 1964

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

ZOHAN E. SHEFFNER
STRUCTURAL ENGINEER
9808 WILSHIRE BLVD. • BEVERLY HILLS, CALIF.
REG. NO. S.E. 795

GARRETT ENGINEERS
CONSULTING ELECTRICAL ENG.
1514 W. 7th STREET • LOS ANGELES 57, CALIF.
REG. NO. E-5699

STEPHEN T. BERRY
CONSULTING MECHANICAL ENG.
1515 S. SPRING ST. • LOS ANGELES 13, CALIF.
REG. NO. M-5680

G. SHUIRMAN & ASSOCIATES
CONSULTING ENGINEERS
9857 WILSHIRE BLVD. • LOS ANGELES 36, CALIF.
REG. NO. S.E. 8[illegible]

8786.24

REGISTERED PROFESSIONAL ENGINEER
ROBERT E. GARRETT
No. 5699
ELECTRICAL
STATE OF CALIFORNIA

GARRETT ENGINEERS
ELECTRICAL ENGINEER
REGISTRATION NUMBER 5699
1514 W. 7th ST. LOS ANGELES 57
DU 5-2341

ARCHITECT
DATE DEC. 1964
APPROVED
DATE
REVISIONS

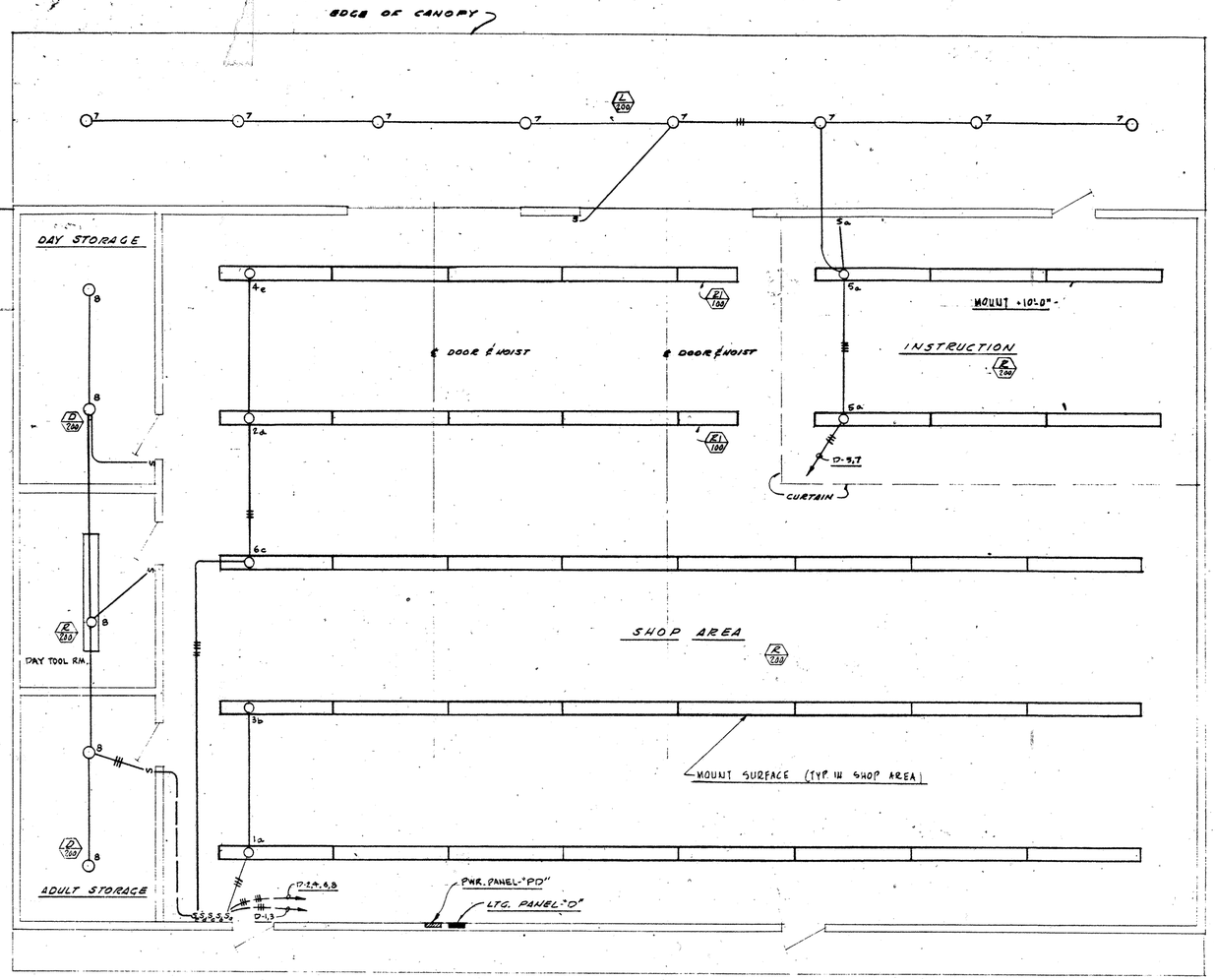
SHEET TITLE
POWER PLAN
AUTO SHOP

NORTH HOLLYWOOD HIGH SCHOOL
NORTH HOLLYWOOD, CALIFORNIA
BOARD OF EDUCATION

ALBERT CRIZ A.I.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

JOB NO. 6101
SCALE 1/4" = 1'-0"
DRAWN BY
CHECKED BY
SHEET NO. E-10
OF 11 SHEETS

63



AUTO SHOP LIGHTING PLAN

SCALE 1/4"=1'-0"

N

AUTO SHOP PANEL PD

3	20		1	PUT. 1/2HP, 240V, 3Ø	320			
3	20		1	1HP, 240V, 3Ø GRINDER	500			
—	—			SEE CKT. #1		320		
—	—			#2		500		
—	—			#1			320	
—	—			#2			500	
3	20		1	1/3HP, 240V, 3Ø GRINDER	235			
2	20		1	1/3HP, 240V, 1Ø DRILL PRESS	350			
—	—			SEE CKT. #7		235		
—	—			#8		350		
—	—			#7			235	
2	20	1		240V, 1Ø RECEPT.			1000	
3	40		1	5HP, 240V, 3Ø AIR COMPR	2000			
—	—			SEE CKT. #12	1000			
—	—			SEE CKT. #13		2000		
2	20	1		240V, 1Ø RECEPT		1000		
—	—			SEE CKT. #13			2000	
—	—			SEE CKT. #16			1000	
2	20	1		240V, 1Ø RECEPT	1000			
2	20	1		240V, 1Ø RECEPT	1000			
—	—			SEE CKT. #19		1000		
—	—			SEE CKT. #20		1000		
3	20			SPARE			1000	
3	20							
—	—				1000			
—	—					1000		
3	30							
3	30							
				SPARE				

20,865 20.9

240 3 90 CYCLES 3

100A 3P FLUSH, 100A. BUS

AUTO SHOP PANEL D

1	20	8		SHOP AREA	1600			
		5			900			
		5				1600		
		5				900		
		6		INSTRUCTION	1200			
		8		SHOP AREA	1600			
		8		CANOPY		1600		
		9		DAY TOOLS, STOR.		1000		
	20	4		SHOP AREA	720			
	40		1	1/2 HP, 120V, 1Ø EXH. FAN	2200			
	20			SPARE		1000		
		4	2	SHOP AREA UNIT HTR. UH-1		1080		
		5		TOOL ROOM	900			
			1	1/8HP, EXH. FAN E-10	350			
		2	1	SHOP AREA		540		
			1	1/8HP, EXH. FAN E-9				
		1		SHOP AREA	1000			
			3	RADIANT HEATERS #1,2,&3	360			
				SPARE				
	20			SPARE				
	20							

18,550 18.6

120/240 1 3

100A 2P FLUSH, 100A. BUS.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE

STATE FIRE MARSHAL
STATE OF CALIFORNIA

APPROVED
STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE DEC 29 1964
BY

GARRETT ENGINEERS
MILLER ST. CALIF.

G. SHURMAN & ASSOCIATES

8786.24

REGISTERED PROFESSIONAL ENGINEER
ROBERT E. GARRETT
ELECTRICAL
STATE OF CALIFORNIA

GARRETT ENGINEERS
ELECTRICAL ENGINEER
REGISTRATION NUMBER 5099

ARCHITECT
DATE DEC. 1964
APPROVED
DATE
REVISIONS

SHEET TITLE
LIGHTING PLAN
AUTO SHOP

JOB NO. 6101
SCALE 1/4" = 1'-0"
DRAWN BY
CHECKED BY

ALBERT CRIZ A.I.A. INC.
ARCHITECT
9808 WILSHIRE BLVD. BEVERLY HILLS, CALIF.

SHEET NO. E-11
OF 11 SHEETS

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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD982037855	1	800-785-7225	00454249 6 FLE

GENERATOR

5. Generator's Name and Mailing Address
LAUSD-N Hollywood HS
333 S Beaudry Ave 27th Floor
Los Angeles CA 90017
Generator's Phone: 818 753-6200

Generator's Site Address (if different than mailing address)
5231 Colfax Ave
North Hollywood CA 91601

6. Transporter 1 Company Name: Advanced Chemical Transport — U.S. EPA ID Number: CAR000070540

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Evergreen Oil, Inc. (Carson)
16604 South San Pedro St
Carson, CA 90746
Facility's Phone: 310-769-0022
U.S. EPA ID Number: CAD981696420

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		
	1. Non RCRA Hazardous Waste Liquid (Oil)	2	DM	79	G	221		
	2. Non RCRA Hazardous Waste Solid (Used Oil Filters)	1	DM	90	P	~~221~~	352	
	3. Non RCRA Hazardous Waste Liquid (Antifreeze)	1	DM	4	G	~~221~~	134	
	4.							

14. Special Handling Instructions and Additional Information
1) 10005410; NOE- 902/55 NOE-904/55 2) 10005411; NOE- 903/55 3) 10005412;
Project Number: LA-3576

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: Al Jimenez — Signature — Month 6 Day 8 Year 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Stegall — Signature — Month 6 Day 8 Year 11

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

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

ENTERED

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	H141	H141	

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: Brian Julius — Signature — Month 6 Day 16 Year 11

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: CAD982037855
2. Page 1 of 1
3. Emergency Response Phone:
4. Manifest Tracking Number: 007937583 JJK

49

5. Generator's Name and Mailing Address
LAUSD/NORTH HOLLYWOOD HIGH
333 S BEAUDRY AVE 27TH FL
LOS ANGELES CA 90017
Generator's Phone: 213 241-3899

Att: SOE AUNG

Generator's Site Address (if different than mailing address)
LAUSD/NORTH HOLLYWOOD HIGH
5231 COLFAX AVE
NORTH HOLLYWOOD CA 91601

6. Transporter 1 Company Name: ECOLOGY CONTROL INDUSTRIES (MONTCLAIR)
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: CAD029409019

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		
	1. Non-RCRA, Hazardous Waste, Liquid (OIL)	2	Dm	100	G	221		
	2. ~~Non-RCRA, Hazardous Waste, Liquid (ETH-LENE GLYCOL WATER)~~	—	—	—	G	~~345~~		
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Wear proper safety equipment. 1) 2 x 55 #12225 2) ___ x ___ #30248
ECI Job# 24-1439

D43949

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: Al Jimenez
Signature: [signature]
Month 2 Day 9 Year 11

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: Sergio A. Sepulveda
Signature: [signature]
Month 02 Day 10 Year 11

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

THE REFERENCED WASTE WAS RECEIVED, HANDLED AND STORED FOR SUBSEQUENT OFFSITE DISPOSAL, TREATMENT OR REUSE. CROSBY & OVERTON, INC. OPERATES THE FACILITY UNDER PERMITS GRANTED TO THEM, BY THE DEPARTMENT OF TOXIC SUBSTANCE CONTROL, TOGETHER WITH THE ENVIRONMENTAL PROTECTION AGENCY IN ACCORDANCE WITH THE PROVISIONS OF THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976 TOGETHER WITH APPLICABLE FEDERAL AND STATE REGULATIONS, CROSBY & OVERTON HAS ALL OF THE NECESSARY PERMITS TO ACCEPT THE REFERENCED WASTE AND ALL THE WASTE HAS BEEN HANDLED ACCORDINGLY.

Manifest Reference Number:

18b. Alternate Facility (or Generator)
Facility's Phone:
U.S. EPA ID Number:

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.
H141			

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: L Vicuna
Signature: [signature]
Month 02 Day 16 Year 11

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAD982037055
2. Page 1 of 1
3. Emergency Response Phone:
4. Manifest Tracking Number: 007937583 JJK

5. Generator's Name and Mailing Address: LAUSD/NORTH HOLLYWOOD HIGH, 332 S BEAUDRY AVE 27TH FL, LOS ANGELES CA 90017 — Att: SOE AUNO
Generator's Site Address (if different than mailing address): LAUSD/NORTH HOLLYWOOD HIGH, 5231 COLFAX AVE, NORTH HOLLYWOOD CA 91601
Generator's Phone: 213 241-3899

6. Transporter 1 Company Name: ECOLOGY CONTROL INDUSTRIES (MONTCLAIR) — 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 — U.S. EPA ID Number: CAD028409019
Facility's Phone: 562 432-5445

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
	1. Non-RCRA, Hazardous Waste, Liquid (OIL)	2	Dry	100	G	221
	2. ~~Non-RCRA, Hazardous Waste, Liquid (ETHYLENE GLYCOL WATER)~~	-	-		G	~~343~~
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Wear proper safety equipment. 1) 2 x 55 $12228 2) ___ x ___ $30248
DCI Job# 24-1439
D43949

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: Al Jimenez — Signature: [signature] — Month 2 Day 9 Year 11

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ____ Date leaving U.S.:
Transporter signature (for exports only):

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Cecilio M. Sanchez — Signature: [signature] — Month 02 Day 16 Year 11
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. H141 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: L Vicuña — Signature: [signature] — Month 02 Day 16 Year 11

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD982037865	1	714-620-4606	010469034 JJK

GENERATOR

5. Generator's Name and Mailing Address
Los Angeles Unified School District - OEHS
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)
N. Hollywood H.S. 5231 Colfax
North Hollywood, CA 91601

6. Transporter 1 Company Name: Earthwise Services L.L.C. (714)620-4606
U.S. EPA ID Number: CAR000152058

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
AZUSA LAND RECLAMATION
1211 W. Gladstone
Azusa, CA 91702
Facility's Phone: 626-224-9127
U.S. EPA ID Number: CAD009007820

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		
	1. ~~RQ, ASBESTOS, 9, NA2212, PGIII~~ RQ NA2212, ASBESTOS, 9, PG III	16	SW BA	1	Y	151		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
24HR Emergency contact Earthwise Services L.L.C. (714) 620-4606. SCAQMD 21865 E. Copley Dr Diamond Bar CA 91765
Use of Personal Safety Equipment is required. Asbestos removal requirement 40CFR61 (Bagged, Sealed, Labeled)
AIR. Profile 104969CA

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: Jim McFarland
Signature: Jim McFarland
Month 12 Day 27 Year 12

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: SCOTT WALLACE
Signature: Scott Wallace
Month 12 Day 27 Year 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

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.
H132			

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: Claudia Felix
Signature
Month Day Year 12 27 12

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

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: CAD982037855
2. Page 1 of 1
3. Emergency Response Phone: 310 3549999
4. Manifest Tracking Number: 008624555 JJK

5. Generator's Name and Mailing Address: LAUSD, 333 S. Beaudry Ave 28th Floor, Los Angeles, CA 90017 213-241-3199 — Attn: Joe Aurig
Generator's Phone:
Generator's Site Address (if different than mailing address): North Hollywood H.S, 5231 Colfax Ave, North Hollywood, CA 91606

6. Transporter 1 Company Name: Ecology Control Ind. — 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 — U.S. EPA ID Number: CAD028409019
Facility's Phone: 562-432-5445

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
	1. WASTE FLAMMABLE LIQUID, N.O.S., 3, UN1993, III (LAB PACK) ERG#128	1	DM	150 EST.	P	D001	F003	551
	2. NON RCRA HAZARDOUS WASTE LIQUID (LAB PACK)	1	DM	200 EST.	P	NA	NA	551
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1) 1 x 55 DM, LP1
2) 1 x 55 DM, LP2 — LP28041 — D65784

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: Horacio Godina — Signature: [signature] — Month 6 Day 1 Year 12

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: Feliciano [signature] — Signature: [signature] — Month 6 Day 1 Year 12
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:

THE REFERENCED WASTE WAS RECEIVED, HANDLED AND STORED FOR SUBSEQUENT OFFSITE DISPOSAL, TREATMENT OR REUSE. CROSBY & OVERTON, INC. OPERATES THE FACILITY UNDER PERMITS GRANTED TO THEM, BY THE DEPARTMENT OF TOXIC SUBSTANCE CONTROL, TOGETHER WITH THE ENVIRONMENTAL PROTECTION AGENCY IN ACCORDANCE WITH THE PROVISIONS OF THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976 TOGETHER WITH APPLICABLE FEDERAL AND STATE REGULATIONS, CROSBY & OVERTON HAS ALL OF THE NECESSARY PERMITS TO ACCEPT THE REFERENCED WASTE AND ALL THE WASTE HAS BEEN HANDLED ACCORDINGLY.

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. H141 2. H141 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] — Signature: [signature] — Month 06 Day 07 Year 12

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

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: CAD982037055
2. Page 1 of 1
3. Emergency Response Phone: 714-620-4686
4. Manifest Tracking Number: 008652761 JJK

5. Generator's Name and Mailing Address
Los Angeles Unified School District - EHS
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)
North Hollywood High 5231 Colfax Ave.
North Hollywood, CA 91601

6. Transporter 1 Company Name: Earthwise Services L.L.C.
U.S. EPA ID Number: CAR000152058

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
AZUSA LAND RECLAMATION
1211 W. Gladstone
Azusa, CA 91702
Facility's Phone: 626-334-0719
U.S. EPA ID Number: CAD009007626

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
	1. RQ, ASBESTOS, 9, NA2212, PGIII	1	CM	40	Y	151
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
24HR Emergency Contact Earthwise Services L.L.C. (714) 620-4686. SCAQMD 21865 E. Copley Dr Diamond Bar CA 91775. Use of personal Safety equipment is required. Asbestos removal requirement 40CFR61 (Bagged, Labeled, Sealed)

ACE 104969 CA

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 (ON BEHALF OF): Horacio Godina
Signature:
Month 03 Day 23 Year 12

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: SCOTT WALLACE
Signature: Scott Wallace
Month 03 Day 23 Year 12

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)
ENTERED 151
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.
H132			

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: Jamell
Signature:
Month 3 Day 23 Year 12

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD982037955	1	909-625-0645	008626559 JJK

GENERATOR

5. Generator's Name and Mailing Address
LAUSD
333 S. BEAUDRY AVE 27TH FL
LOS ANGELES CA 90017
Attn: SOE AUNG
Generator's Phone: 213 241-3890

Generator's Site Address (if different than mailing address)
LAUSD/NORTH HOLLYWOOD HS
5231 COLFAX AVE
NORTH HOLLYWOOD CA 91601

6. Transporter 1 Company Name
ECOLOGY CONTROL INDUSTRIES (MONTCLAIR)
U.S. EPA ID Number
CAD982030173

7. Transporter 2 Company Name
Industrial Waste Utilization
U.S. EPA ID Number
CAD980585293

8. Designated Facility Name and Site Address
AA SYDCOL, LLC
1925 S. FACTOR AVE.
YUMA AZ 85365
Facility's Phone: 928 783-3670
U.S. EPA ID Number
AZR000501510

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		
	1. Non-RCRA, Hazardous Waste, Liquid (OIL & WATER)	2	DM	90	G	223		
	2. Non-RCRA, Hazardous Waste, Liquid (ANTIFREEZE)	1	DM	35	G	135		
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Wear proper safety equipment.
ECI Job# 24-1547
1) 2 x 55 # L20405-LL1
2) 1 x 55# L20406-LL

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: Al Jimenez
Signature:
Month: 3 Day: 15 Year: 12

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: RAFAEL GONZALEZ
Signature: Rafael Gonzalez
Month: 3 Day: 15 Year: 12

Transporter 2 Printed/Typed Name: Ronald Albright
Signature: Ronald Albright
Month: 3 Day: 23 Year: 12

DESIGNATED FACILITY

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.
H141	H141		

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: Dennis M. Koehler
Signature:
Month: 3 Day: 31 Year: 12

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. **DESIGNATED FACILITY TO GENERATOR**

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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD982037855	1	(800) 451-8346	010202792 JJK

GENERATOR

5. Generator's Name and Mailing Address
LOS ANGELES UNIFIED SCHOOL DISTRICT-OEHS
333 S. BEAUDRY AVE. 20TH FLOOR
LOS ANGELES, CA 90017
Generator's Phone: (213) 241-3199CONTACT: SOE AUNG

Generator's Site Address (if different than mailing address)
NORTH HOLLYWOOD H.S.
5231 COLFAX AVENUE
NORTH HOLLYWOOD, CA 91601

6. Transporter 1 Company Name
BDC SPECIAL WASTE SERVICES
U.S. EPA ID Number
CAR000181891

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
AZUSA LAND RECLAMATION
1211 W. GLADSTONE
AZUSA, CA 91702
Facility's Phone: (626) 224-9127
U.S. EPA ID Number
CAD009007626

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. NA2212, ASBESTOS, 9, PGIII, RQ	5	BA	1	Y	151		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
BDC SPECIAL WASTE SERVICES 1211 W. GLADSTONE AVE. AZUSA, CA 91702 (626)969-1384
3E Contract #9026 Profile#CA3044450,
(ERG#171) SCAQMD 21865 E. COPLEY DR. DIAMOND BAR, CA. 91789 (909)396-2000
ASBESTOS REMOVAL REQUITREMENT 40 CFR 61 (BAGGED SEALED & LABELED) NATIONALDEMO

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: JOHN CHAMBERS
Signature:
Month: 7 Day: 19 Year: 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ROGELIO RODRIGUEZ
Signature:
Month: 07 Day: 19 Year: 13

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

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:

ENTERED

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

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: 07 Day: 19 Year: 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) DRUM # 14412 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAD 982 037 855	1 of 1	(310) 345-6714	002152971 GBF

GENERATOR

5. Generator's Name and Mailing Address

LAUSD/North Hollywood High School
333 S. Beaudry Ave., 28th Floor
Los Angeles, CA 90017

Generator's Phone: (213) 763-3060

Generator's Site Address (if different than mailing address)

52311 Colfax Ave
North Hollywood, CA 91601

6. Transporter 1 Company Name: T & D Environmental — U.S. EPA ID Number: CAR 000 164 327

7. Transporter 2 Company Name: LIGHTING RESOURCES, LLC — U.S. EPA ID Number: CAR000150125

8. Designated Facility Name and Site Address

Lighting Resources-Phoenix
1522 E. Victory St. #4
Phoenix, AZ 85040

Facility's Phone: (602) 276-4276

U.S. EPA ID Number: AZD 983 478 680

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
	1. RQ, UN2315, Polychlorinated Biphenyls, Liquid, 9, PGII (PCB Ballasts)	01	DM0180	P		731
	2. ~~RQ, UN2315, Polychlorinated Biphenyls, Liquid, 9, PGII (PCB Ballasts)~~					~~731~~
	3.					
	4.					

14. Special Handling Instructions and Additional Information

Bill: Clear Blue Environmental -PO#-NHHS-416-070814
Emergency Contact - Rafael Arellano (310) 345-6714
Wear Appropriate PPE (Gloves and Safety Glasses)

9b. 1 ERG: 171
10 DAY IN TRANSIT FACILITY
LIGHTING RESOURCES LLC
905 E. FRANCIS ST. ONTARIO, CA.
EPA ID# CAR000150125

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: Michael DeSimone — Signature: Michael DeSimone — Month: 7 — Day: 14 — Year: 14

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rogelio Rios — Signature: — Month: 07 — Day: 14 — Year: 14

Transporter 2 Printed/Typed Name: Bryant Arenas — Signature: — Month: 07 — Day: 21 — Year: 14

DESIGNATED FACILITY

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

ENTERED

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040			

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: Dana Blackwell — Signature: — Month: 07 — Day: 29 — Year: 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Manif # 14412 Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAD 982 037 855	1 of 1	(310) 345-6714	002152971 GBF

GENERATOR

5. Generator's Name and Mailing Address

LAUSD/North Hollywood High School
333 S. Beaudry Ave., 28th Floor
Los Angeles, CA 90017

Generator's Phone: (213) 763-3050

Generator's Site Address (if different than mailing address)

5231 Colfax Ave
North Hollywood, CA 91601

6. Transporter 1 Company Name: T & R Environmental — U.S. EPA ID Number: CAR 000 164 327

7. Transporter 2 Company Name: LIGHTING Resources, LLC — U.S. EPA ID Number: CAD000156125

8. Designated Facility Name and Site Address

Lighting Resources-Phoenix
1522 E. Victory St. #4
Phoenix, AZ 85040

Facility's Phone: (602) 276-4278

U.S. EPA ID Number: AZD 983 476 680

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		
	1. RQ, UN2315, Polychlorinated Biphenyls, Liquid, 9, PGII (PCB Ballasts)	01	DM	0180	P	~~731~~		
	2. ~~RQ, UN2315, Polychlorinated Biphenyls, Liquid, 9, PGII (PCB Ballasts)~~					~~731~~		
	3.							
	4.							

14. Special Handling Instructions and Additional Information

Bill: Clear Blue Environmental -PO#-NHHS-416-070814
Emergency Contact - Rafael Arellano (310) 345-6714
Wear Appropriate PPE (Gloves and Safety Glasses)

9b.1 10 DAY IN TRANSIT FACILITY LIGHTING RESOURCES LLC 805 E. FRANCIS ST. ONTARIO, CA. EPA ID# CAD 000 156 125

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: Michael DeSimone — Signature: Michael DeSimone — Month: 7 — Day: 14 — Year: 14

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Rogelio Rios — Signature: Rogelio Rios — Month: 07 — Day: 14 — Year: 14

Transporter 2 Printed/Typed Name: Bryant Arreola — Signature: — Month: 07 — Day: 21 — Year: 14

DESIGNATED FACILITY

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.
H040			

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: Dana Blackwell — Signature: Dana Blackwell — Month: 07 — Day: 29 — Year: 14

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

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: CAD 982 037 855

22. Page 2 of 2

23. Manifest Tracking Number: 00215297 1 GBF

24. Generator's Name: LAUSD/NORTH HOLLYWOOD HIGH SCHOOL
333 S. BEAUDRY AVE., 28th FLOOR
LOS ANGELES, CA. 90017

25. Transporter 3 Company Name: Lighting Resources, LLC. U.S. EPA ID Number: AZD 983 476 680

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

FOR TRANSPORTATION USE ONLY!

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: Rockie Holston Signature: Rockie Holston Month: 07 Day: 28 Year: 19

34. Transporter ____ Acknowledgment of Receipt of Materials
Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR 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: CAD 982 037 855

22. Page 2 of 2

23. Manifest Tracking Number: 002152971 GBF

24. Generator's Name: LAUSD/NORTH HOLLYWOOD HIGH SCHOOL
333 S. BEAUDRY AVE., 28th FLOOR
LOS ANGELES, CA. 90017

25. Transporter 3 Company Name: Lighting Resources, LLC.
U.S. EPA ID Number: AZD 983 476 690

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

FOR TRANSPORTATION USE ONLY

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: Rockie Holston
Signature: Rockie Holston
Month: 07 Day: 28 Year: 14

34. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

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: CAD 982 057 855

22. Page 2 of 2

23. Manifest Tracking Number: 002152971 KBF

24. Generator's Name: LAUSD/NORTH HOLLYWOOD HIGH SCHOOL
333 S. BEAUDRY AVE. 28th FLOOR
LOS ANGELES CA. 90017

25. Transporter 3 Company Name: Lighting Resources, LLC.

U.S. EPA ID Number: AZD 173476620

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

FOR TRANSPORTATION USE ONLY

32. Special Handling Instructions and Additional Information

TRANSPORTER

33. Transporter 3 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

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

EPA Form 8700-22A (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

Appendix B

Site Reconnaissance Photographs



Photo 1: View of North Hollywood High School (Site) looking from the intersection of Magnolia Boulevard and Colfax Avenue



Photo 2: View of Site looking west across Colfax Avenue



Photo 3: View of staff parking lot looking north



Photo 4: View of hallway in the Administration/Classroom building



Photo 5: View of one of the laboratories/chemical storage rooms



Photo 6: View of flammable liquids locker and lab pack ready for pick up in one of the laboratories/chemical storage rooms



Photo 7: View of chillers located on the roof of the Administration/Classroom building



Photo 8: View of reservoir for the elevator located in the machine shop on the north end of the Administration/Classroom building



Photo 9: View of the Auditorium basement



Photo 10: View of asbestos abatement located in the basement of the Auditorium



Photo 11: View of sump located in the basement of the Auditorium by boilers



Photo 12: View of suspect brick-lined incinerator located in the basement of the Auditorium



Photo 13: View of locked door potentially leading to transformers. There was no access at the time of the Site reconnaissance.



Photo 14: View of Auto Shop looking south-southeast



Photo 15: View of Auto Shop interior



Photo 16: View of one of three hydraulic lift controls located inside of the Auto Shop



Photo 17: View of hydraulic cylinder/oil reservoir within a hydraulic lift pit located inside of the Auto Shop



Photo 18: View of piston within a hydraulic lift pit located inside of the Auto Shop. Staining observed beneath the piston.



Photo 19: View of three-stage clarifier located outdoors by the southwest corner of the Auto Shop building



Photo 20: View of two 55-gallon drums (one labeled, one unlabeled) with rusted tops stored outdoors by the northwest corner of the Auto Shop building



Photo 21: View Wood Shop building looking west-northwest



Photo 22: View of small industrial-sized cyclone located outdoors along the east wall of the Wood Shop building within a caged area. Two steel drums are observed beneath the cyclone for collection



Photo 23: View of Wood Shop interior



Photo 24: View of workbench located inside of Wood Shop. Containers, less than 1 gallon, of finishing chemicals and paints are observed.



Photo 25: Bungalows located on the western portion of the Site



Photo 26: View of East Gym interior looking south-southeast



Photo 27: View of air conditioning unit located inside of the East Gym



Photo 28: View of Locker Room interior



Photo 29: View of West Gym looking south



Photo 30: View of boiler room for the West Gym



Photo 31: View of West Gym interior



Photo 32: View of boiler system for the West Gym



Photo 33: View of Cafeteria looking southeast



Photo 34: View of Cafeteria's kitchen



Photo 35: View of fan room for the Cafeteria. The only operable unit located inside is the water heater



Photo 36: View of classroom interior in Classroom 1 building



Photo 37: View of wall-mounted air conditioning unit for classroom in Classroom 1 and Classroom 2 buildings



Photo 38: View of the track and field looking southeast



Photo 39: View of residential homes across Magnolia Boulevard looking south



Photo 40: View of residential homes across Colfax Avenue looking northeast



Photo 41: View of multi-family residential homes across Chandler Boulevard looking north-northwest

Appendix C

Documents from Site Reconnaissance

(Documents not provided at time of Site Reconnaissance.)

Appendix D

Historical Sources

NORTH HOLLYWOOD HIGH SCHOOL
5231 Colfax Ave
North Hollywood, CA 91601

Inquiry Number: 4633410.9
June 01, 2016

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

06/01/16

Site Name:

NORTH HOLLYWOOD HIGH S
5231 Colfax Ave
North Hollywood, CA 91601
EDR Inquiry # 4633410.9

Client Name:

E2 Managetech Solutions
5001 Airport Plaza Drive
Long Beach, CA 90815
Contact: KEVIN LIN

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	USGS
1994	1"=500'	Acquisition Date: May, 31 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August, 22 1989	USGS
1977	1"=500'	Flight Date: April, 25 1977	EDR Proprietary Brewster Pacific
1970	1"=500'	Flight Date: February, 08 1970	EDR Proprietary Brewster Pacific
1964	1"=500'	Flight Date: July, 28 1964	USGS
1954	1"=500'	Flight Date: July, 06 1954	USGS
1952	1"=500'	Flight Date: July, 10 1952	USGS
1940	1"=500'	Flight Date: January, 01 1940	Fairchild
1938	1"=500'	Flight Date: July, 24 1938	USGS
1928	1"=500'	Flight Date: January, 01 1928	USGS

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INQUIRY #: 4633410.9

YEAR: 2012

= 500'

N

EDR


INQUIRY #: 4633410.9
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 4633410.9
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 4633410.9
YEAR: 2005
= 500'
N
EDR



INQUIRY #: 4633410.9

YEAR: 2002

= 500'

N

EDR



INQUIRY #: 4633410.9

YEAR: 1994

= 500'

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EDR


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YEAR: 1989
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EDR


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YEAR: 1977
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EDR


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YEAR: 1970
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EDR



INQUIRY #: 4633410.9

YEAR: 1964

= 500'

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EDR



INQUIRY #: 4633410.9

YEAR: 1954

= 500'

N

EDR



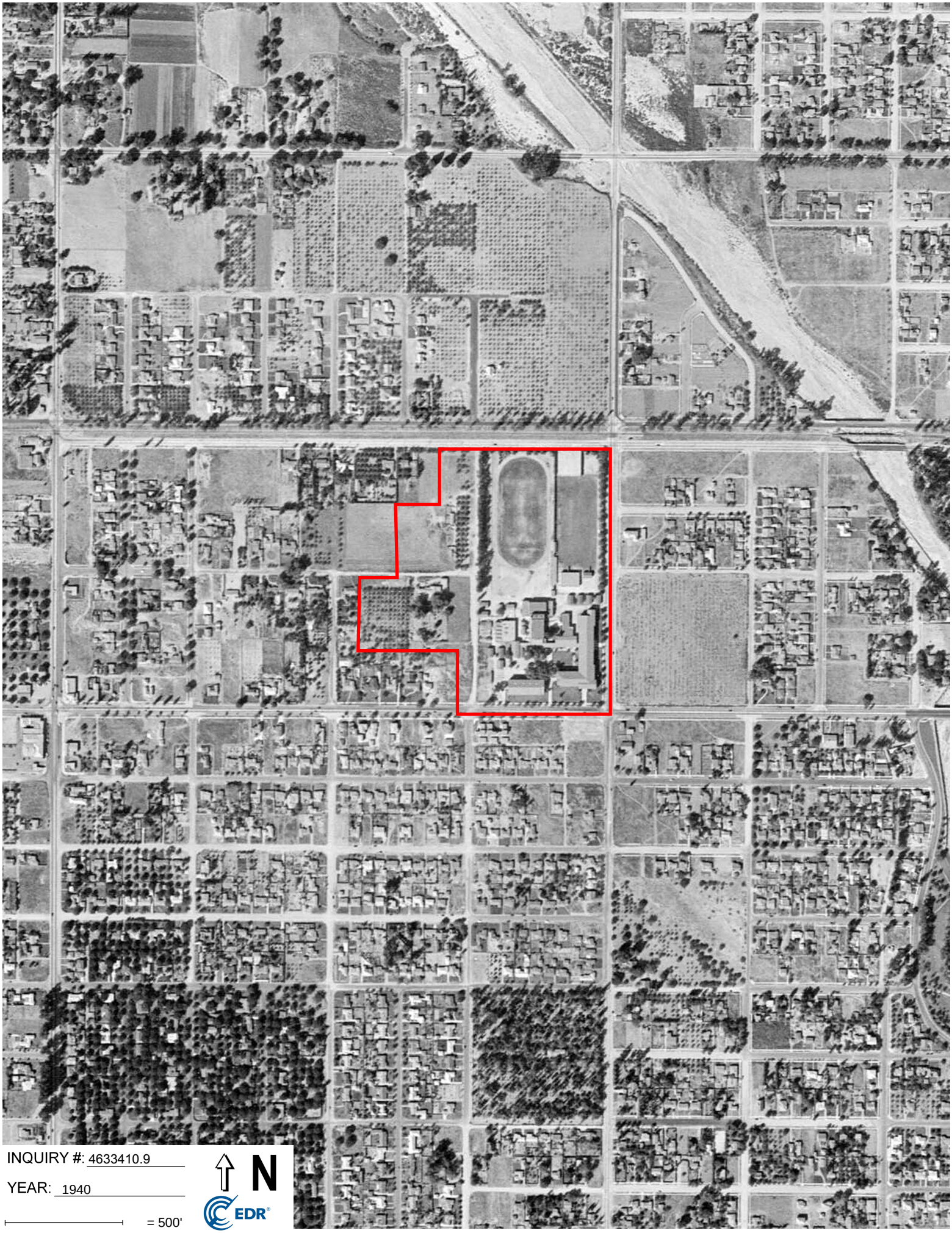
INQUIRY #: 4633410.9

YEAR: 1952

= 500'

N

EDR



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YEAR: 1940

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EDR


INQUIRY #: 4633410.9
YEAR: 1938
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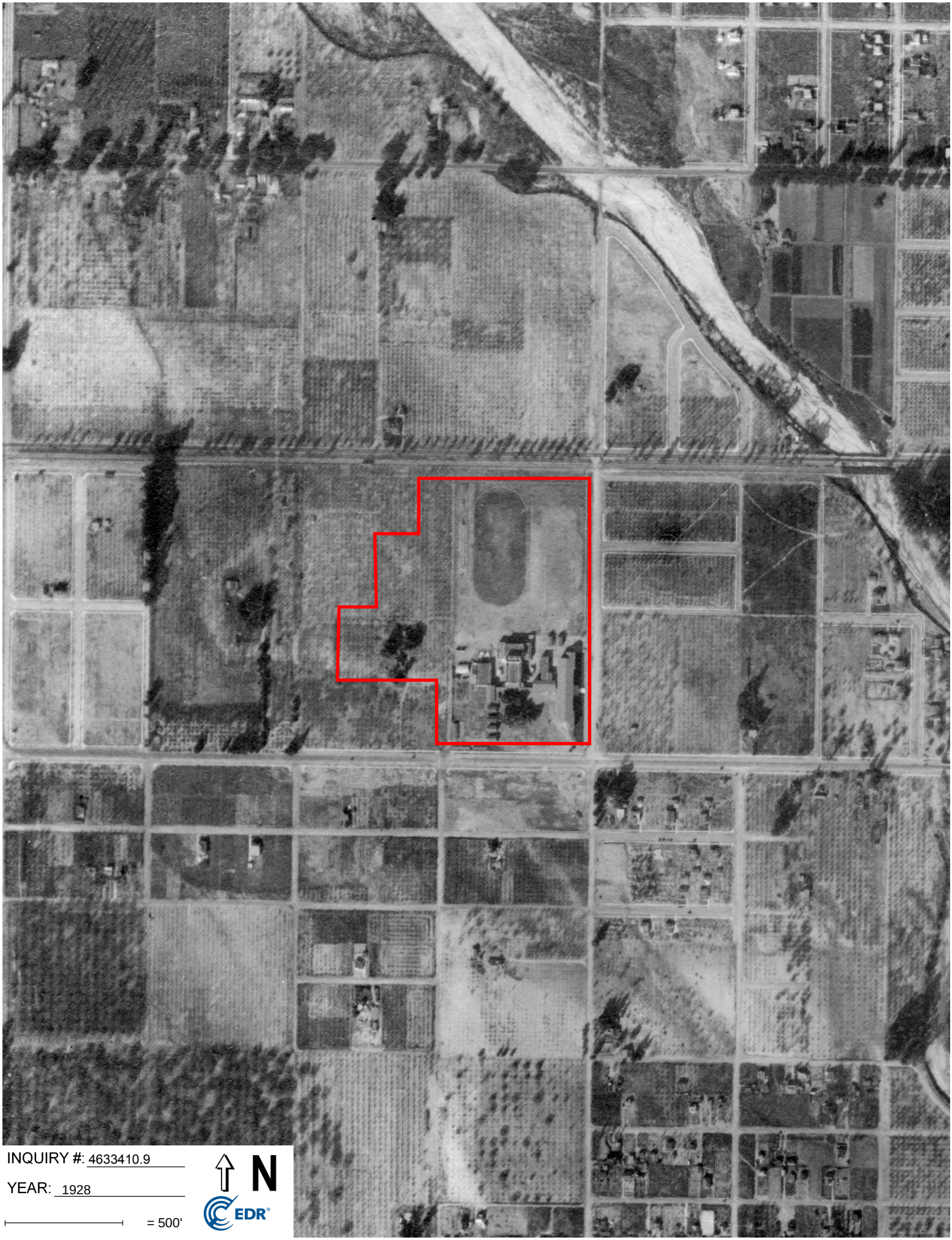
EDR



INQUIRY #: 4633410.9

YEAR: 1928

= 500'

N

EDR

NORTH HOLLYWOOD HIGH SCHOOL
5231 Colfax Ave
North Hollywood, CA 91601

Inquiry Number: 4633410.4
May 31, 2016

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

05/31/16

Site Name:

NORTH HOLLYWOOD HIGH S
5231 Colfax Ave
North Hollywood, CA 91601
EDR Inquiry # 4633410.4

Client Name:

E2 Managetech Solutions
5001 Airport Plaza Drive
Long Beach, CA 90815
Contact: KEVIN LIN

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by E2 Managetech Solutions 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:

P.O.# NA
Project: LAUSD - N Hollywood HS - Ph

Coordinates:

Latitude:	34.166657 34° 10' 0" North
Longitude:	-118.389465 -118° 23' 22" West
UTM Zone:	Zone 11 North
UTM X Meters:	371932.37
UTM Y Meters:	3781507.02
Elevation:	643.10' above sea level

Maps Provided:

2012	1900
1972	1898
1966	1896
1953	1894
1948	
1926	
1921	
1902	

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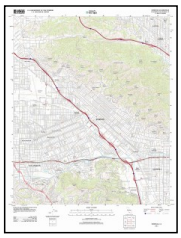
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

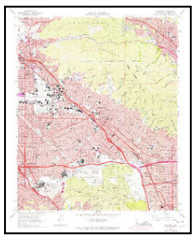


Van Nuys
2012
7.5-minute, 24000



Burbank
2012
7.5-minute, 24000

1972 Source Sheets

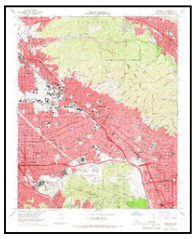


Burbank
1972
7.5-minute, 24000
Photo Revised 1972
Aerial Photo Revised 1972



Van Nuys
1972
7.5-minute, 24000
Photo Revised 1972
Aerial Photo Revised 1972

1966 Source Sheets



Burbank
1966
7.5-minute, 24000
Aerial Photo Revised 1964

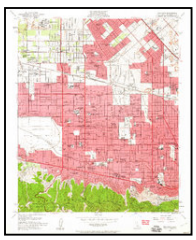


Van Nuys
1966
7.5-minute, 24000
Aerial Photo Revised 1964
Edited 1953

1953 Source Sheets



Burbank
1953
7.5-minute, 24000
Aerial Photo Revised 1952



Van Nuys
1953
7.5-minute, 24000
Aerial Photo Revised 1952

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1948 Source Sheets



Burbank
1948
7.5-minute, 24000
Edited 1945

1926 Source Sheets



Van Nuys
1926
7.5-minute, 24000



Burbank
1926
7.5-minute, 24000

1921 Source Sheets



Santa Monica
1921
15-minute, 62500
Edited 1920

1902 Source Sheets

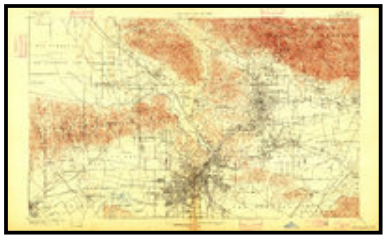


Santa Monica
1902
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1900 Source Sheets



Los Angeles
1900
15-minute, 62500

1898 Source Sheets



Santa Monica
1898
15-minute, 62500

1896 Source Sheets



Santa Monica
1896
15-minute, 62500

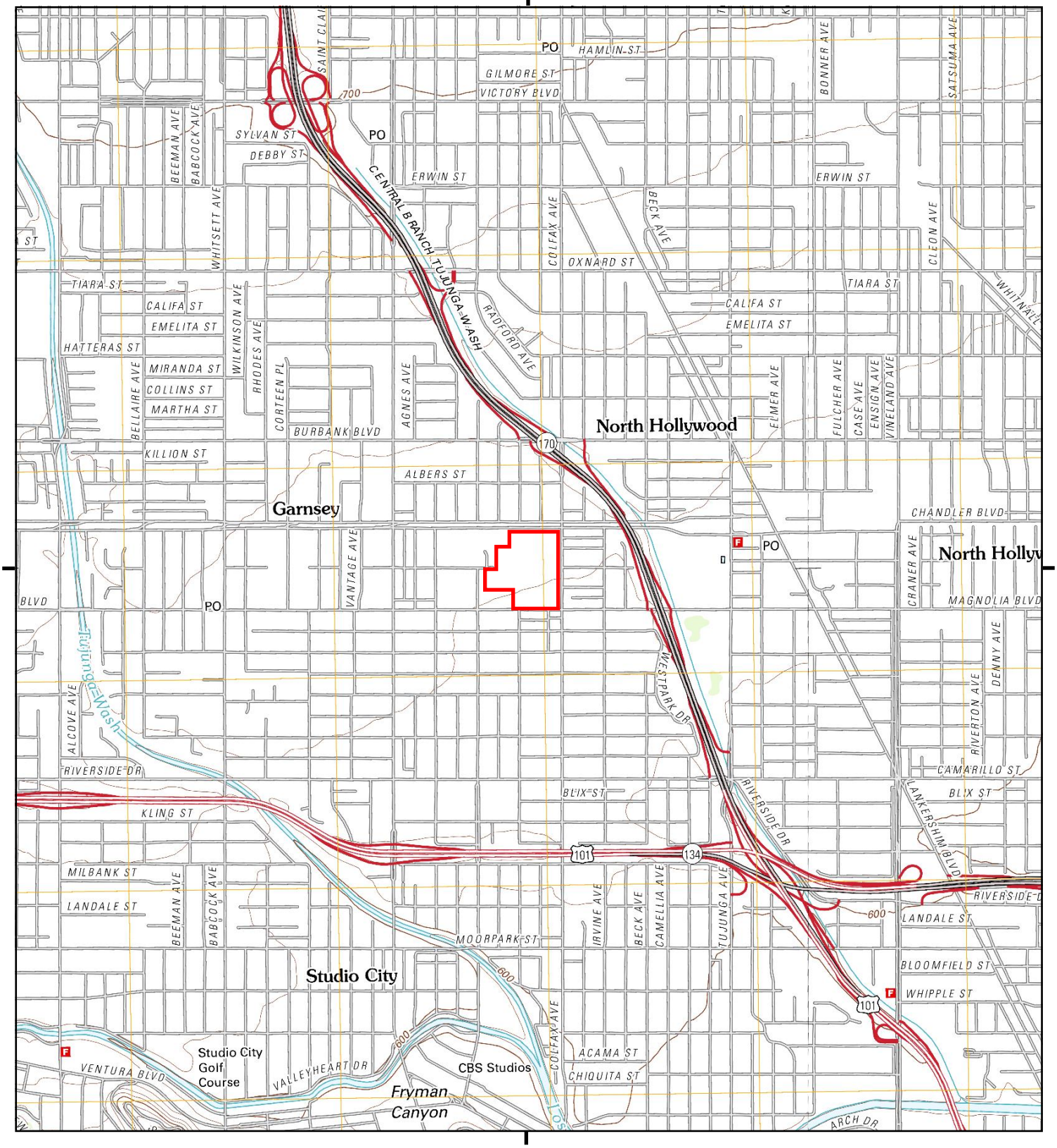
1894 Source Sheets



Los Angeles
1894
15-minute, 62500

Historical Topo Map

2012



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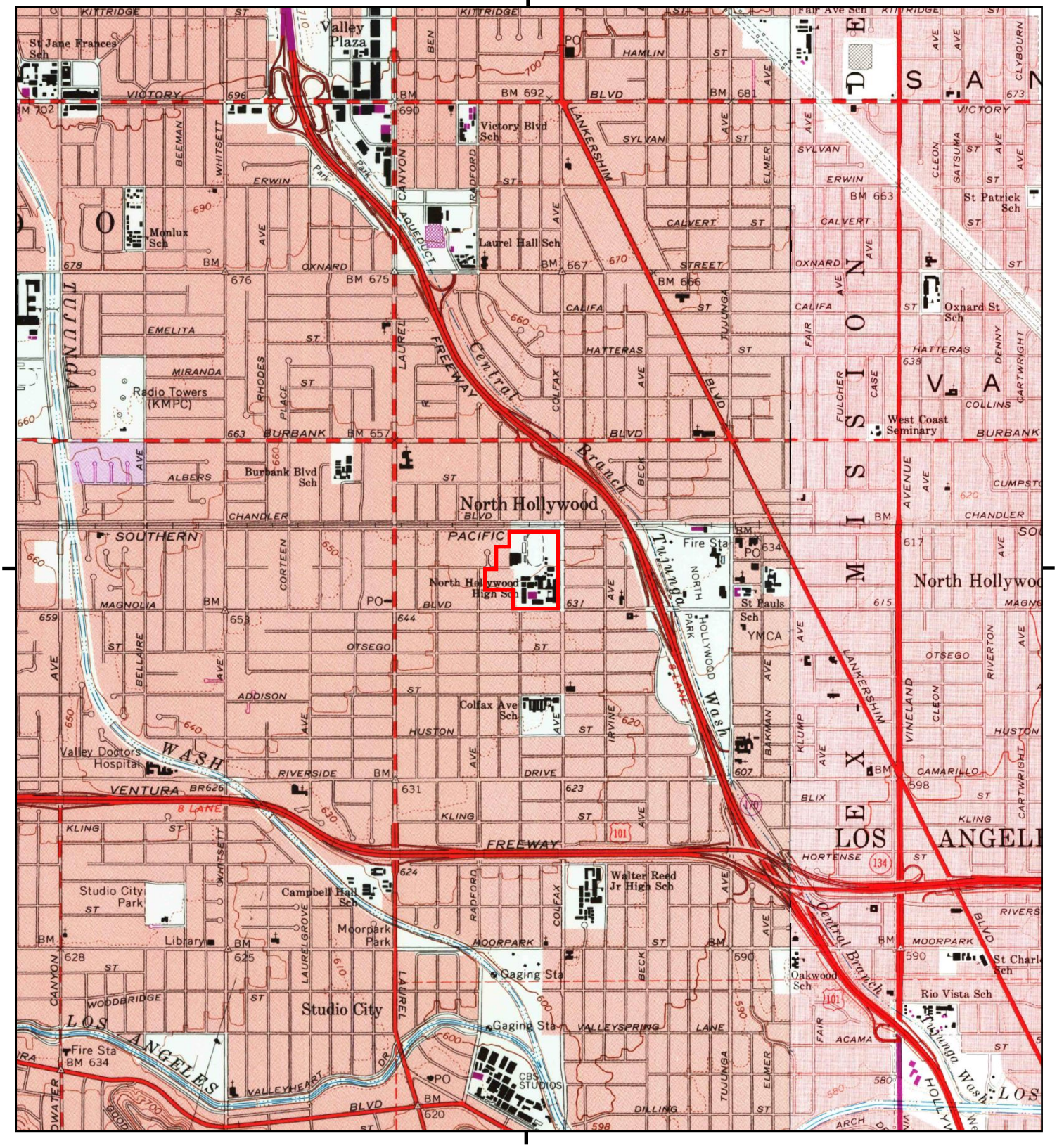
NW N NE
W E
SW S SE

TP, Van Nuys, 2012, 7.5-minute
E, Burbank, 2012, 7.5-minute

SITE NAME: NORTH HOLLYWOOD HIGH SCHOOL
ADDRESS: 5231 Colfax Ave
North Hollywood, CA 91601
CLIENT: E2 Managetech Solutions

N



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W E
SW S SE

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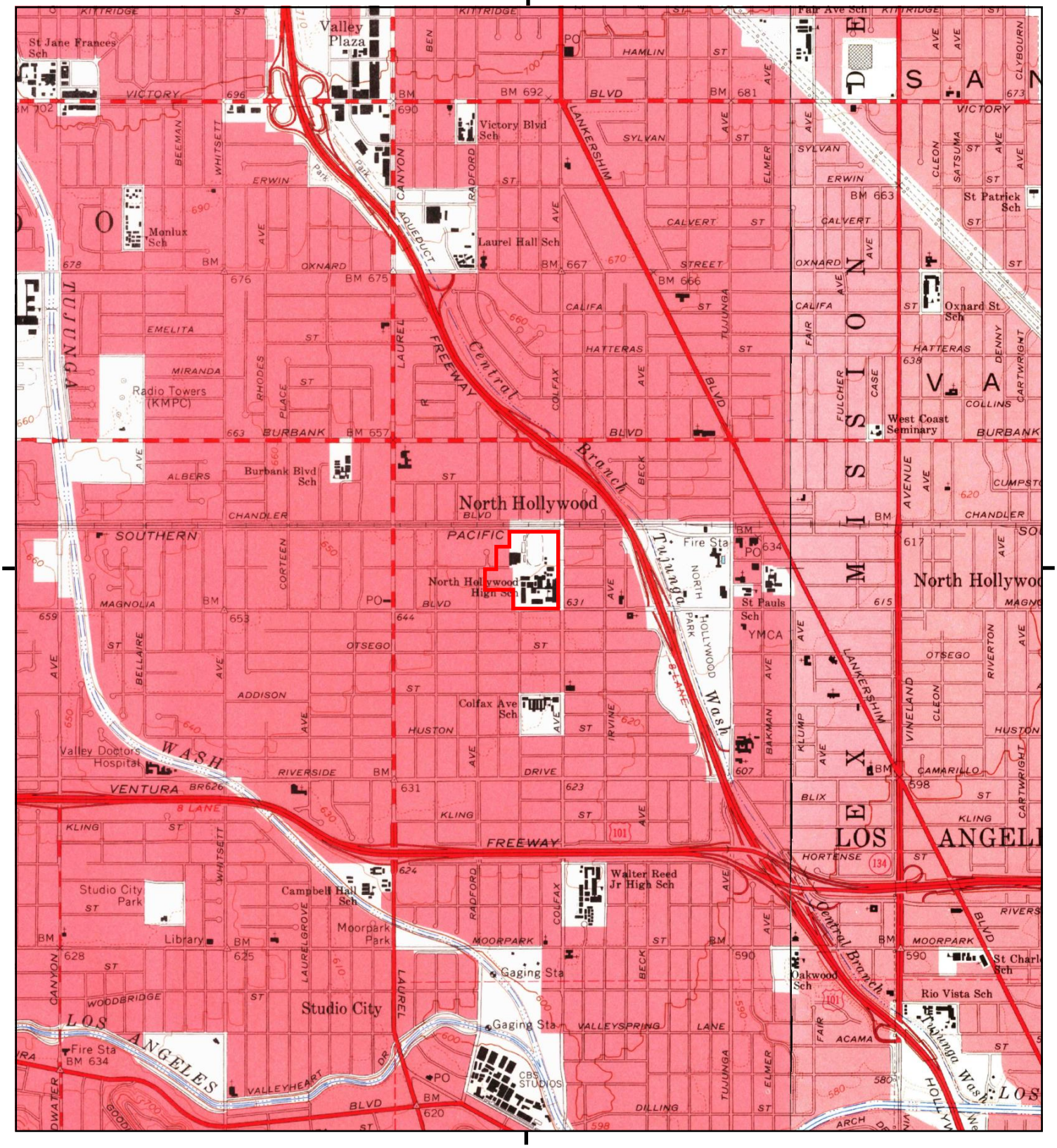
E, Burbank, 1972, 7.5-minute

SITE NAME: NORTH HOLLYWOOD HIGH SCHOOL
ADDRESS: 5231 Colfax Ave
North Hollywood, CA 91601
CLIENT: E2 Managetech Solutions

N

Historical Topo Map

1966



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W E
SW S SE

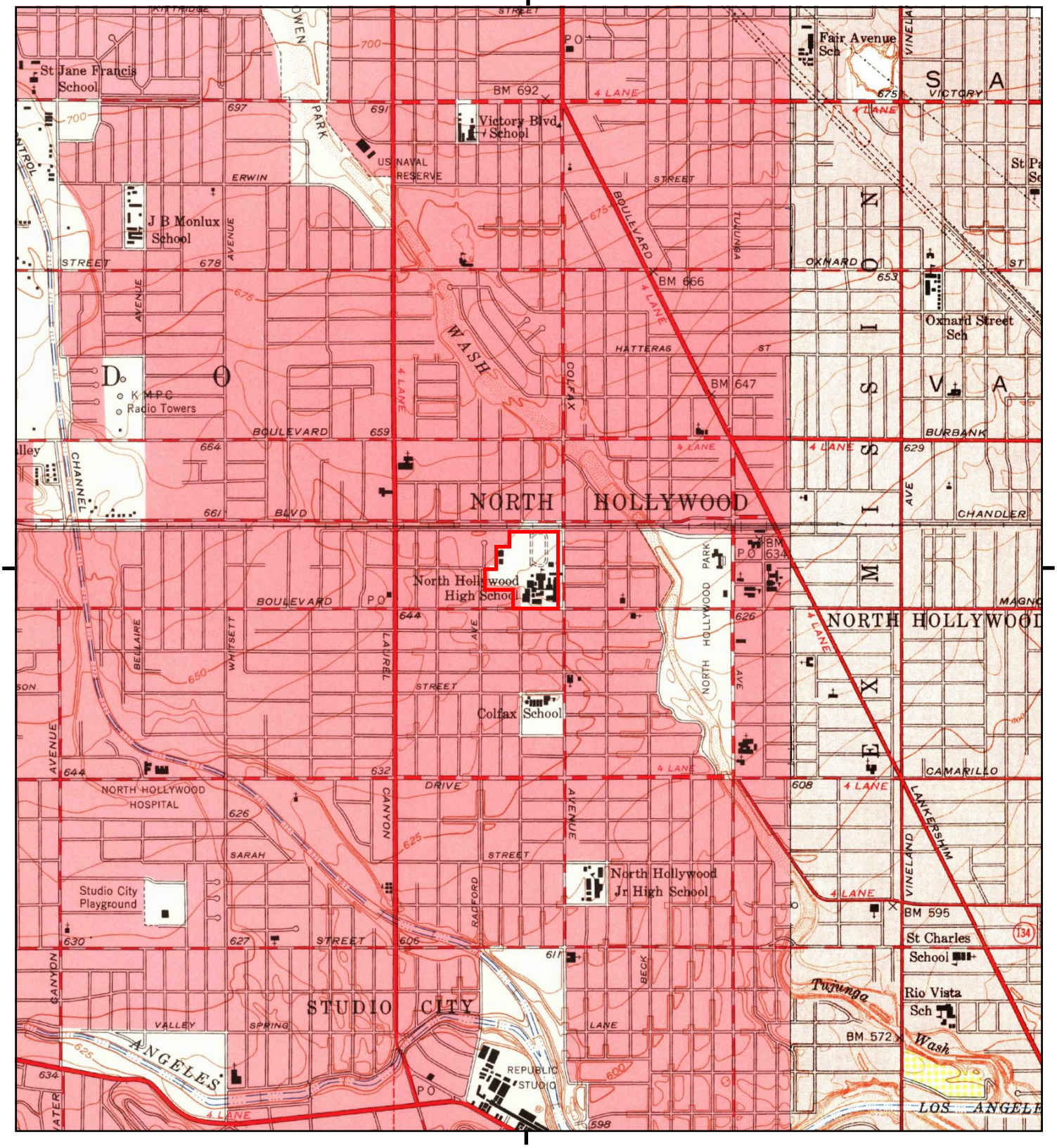
TP, Van Nuys, 1966, 7.5-minute
E, Burbank, 1966, 7.5-minute

SITE NAME: NORTH HOLLYWOOD HIGH SCHOOL
ADDRESS: 5231 Colfax Ave
North Hollywood, CA 91601
CLIENT: E2 Managetech Solutions

N

Historical Topo Map

1953



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W E
SW S SE

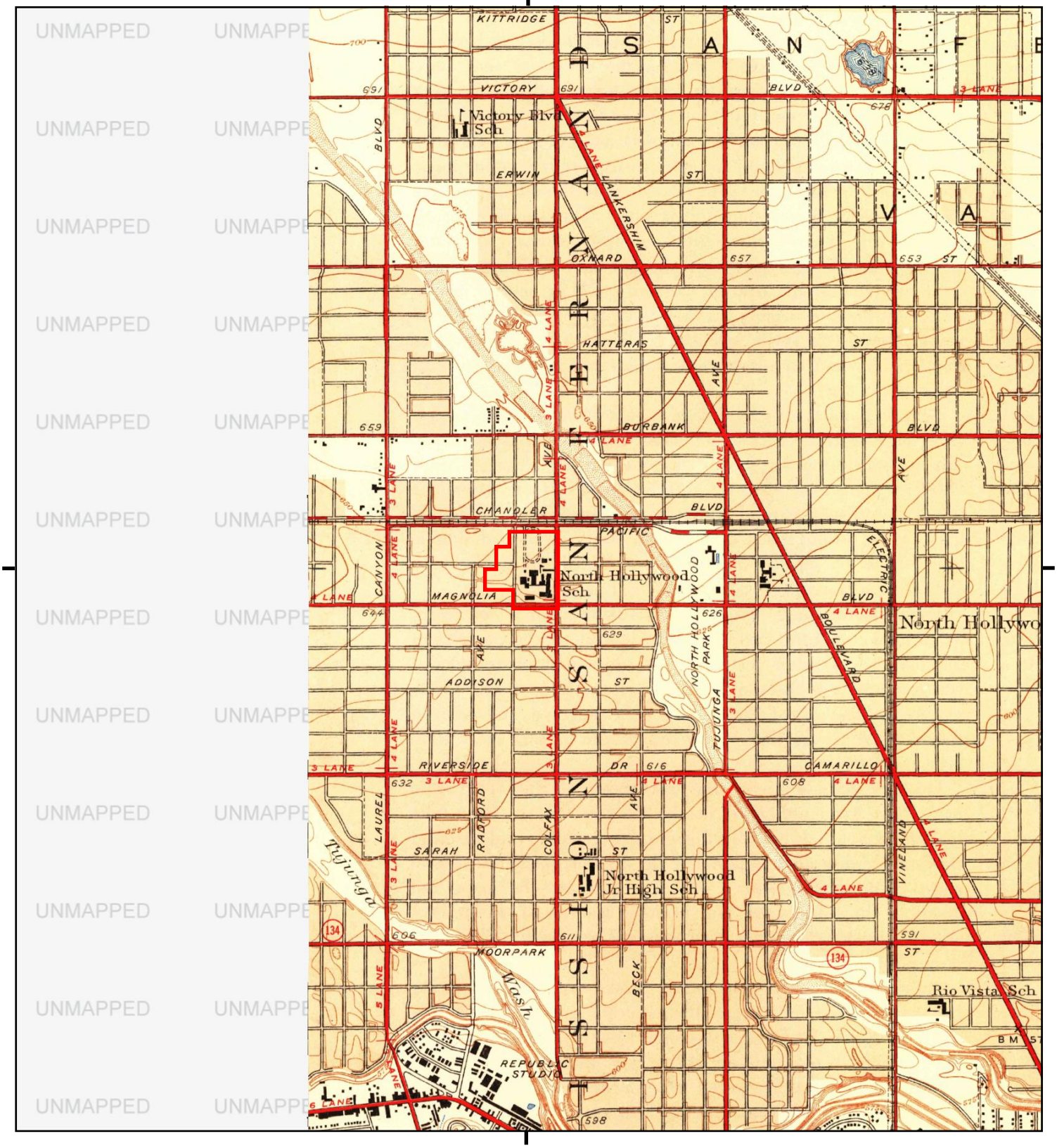
TP, Van Nuys, 1953, 7.5-minute
E, Burbank, 1953, 7.5-minute

SITE NAME: NORTH HOLLYWOOD HIGH SCHOOL
ADDRESS: 5231 Colfax Ave
North Hollywood, CA 91601
CLIENT: E2 Managetech Solutions

N

Historical Topo Map

1948



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W E
SW S SE

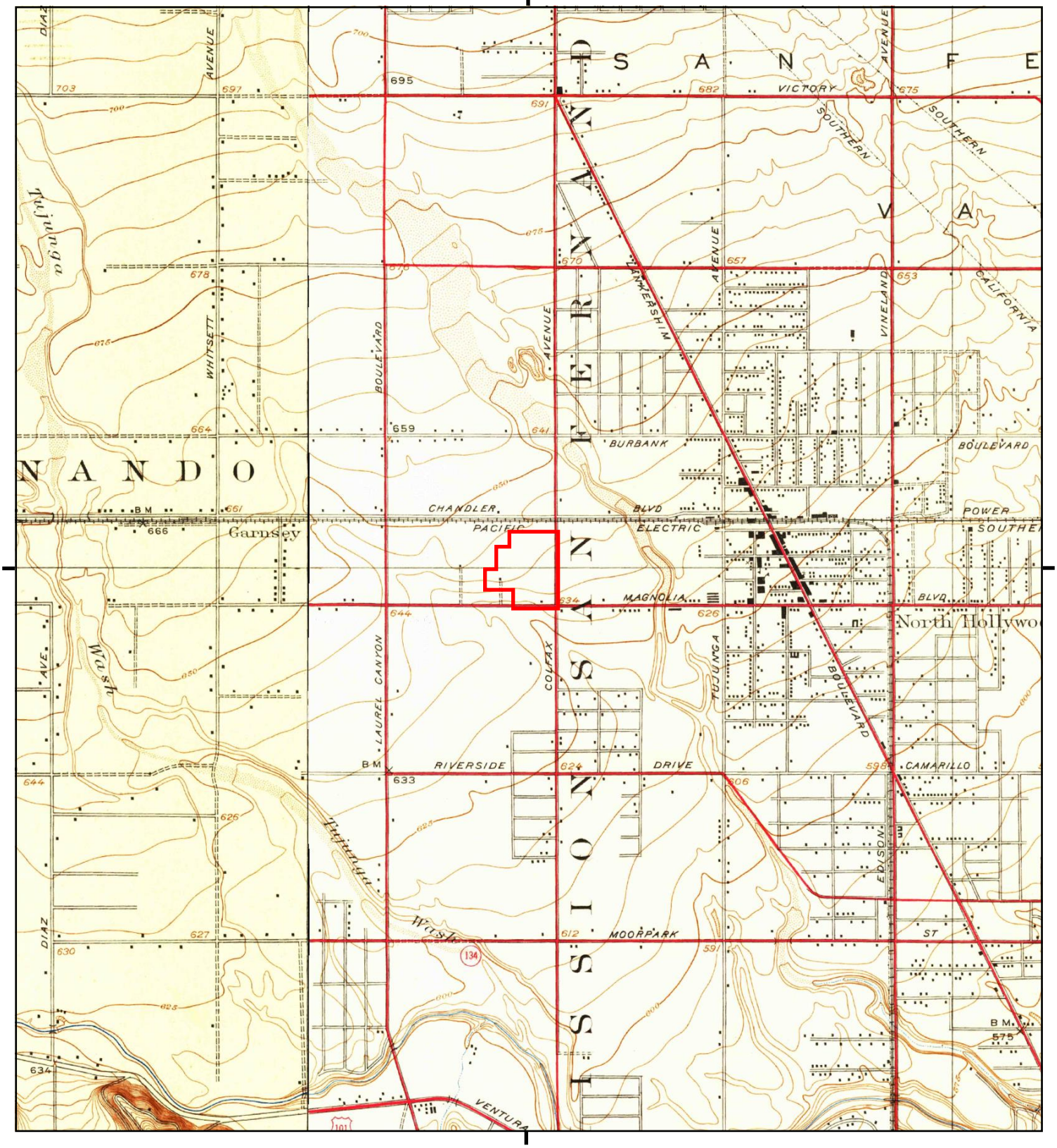
TP, Burbank, 1948, 7.5-minute

SITE NAME: NORTH HOLLYWOOD HIGH SCHOOL
ADDRESS: 5231 Colfax Ave
North Hollywood, CA 91601
CLIENT: E2 Managetech Solutions

N

Historical Topo Map

1926



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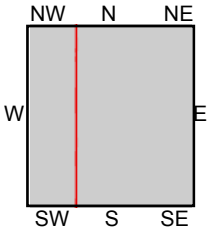
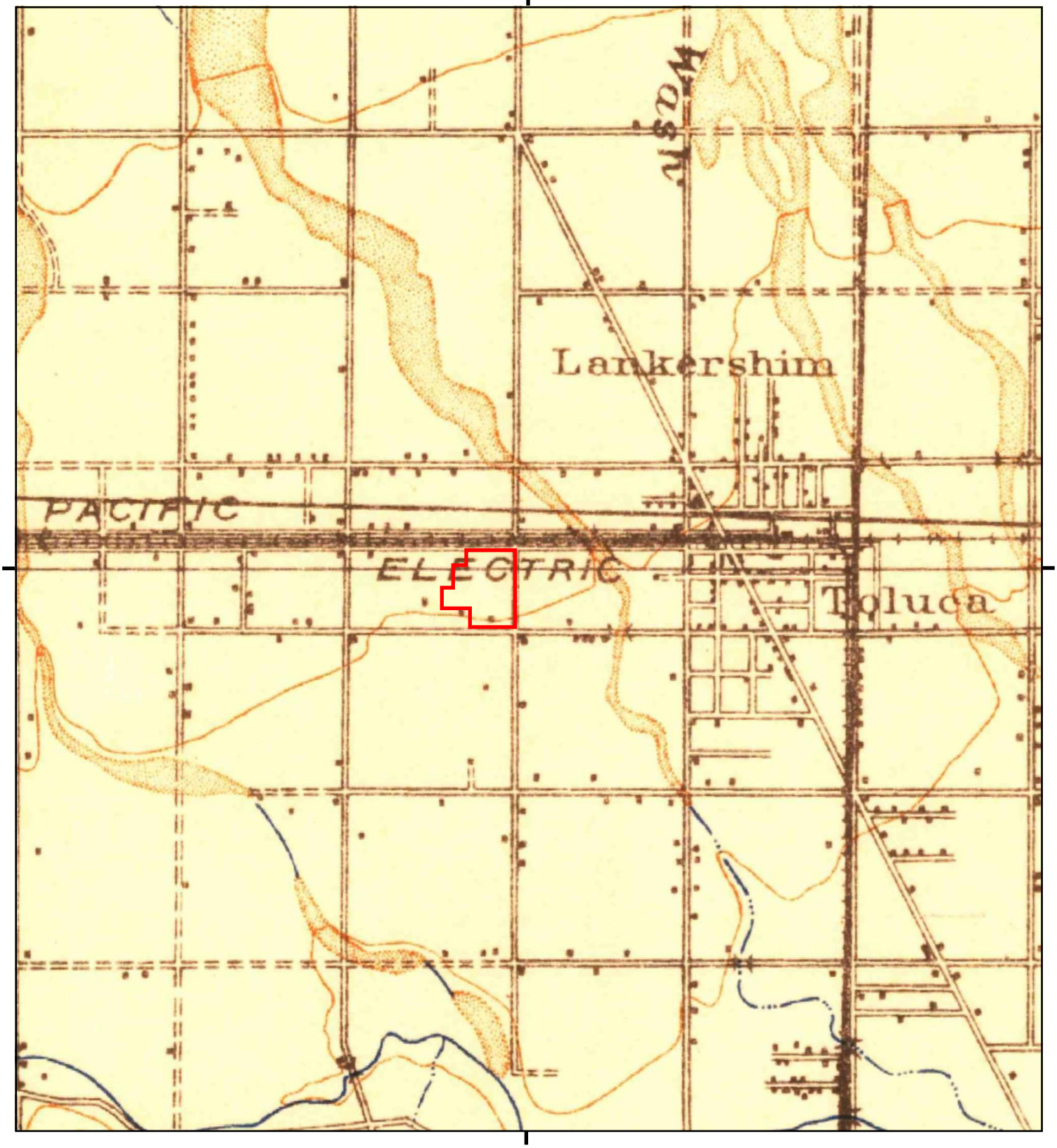


TP, Burbank, 1926, 7.5-minute
W, Van Nuys, 1926, 7.5-minute

SITE NAME: NORTH HOLLYWOOD HIGH SCHOOL
ADDRESS: 5231 Colfax Ave
North Hollywood, CA 91601
CLIENT: E2 Managetech Solutions

N



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NW N NE
W E
SW S SE

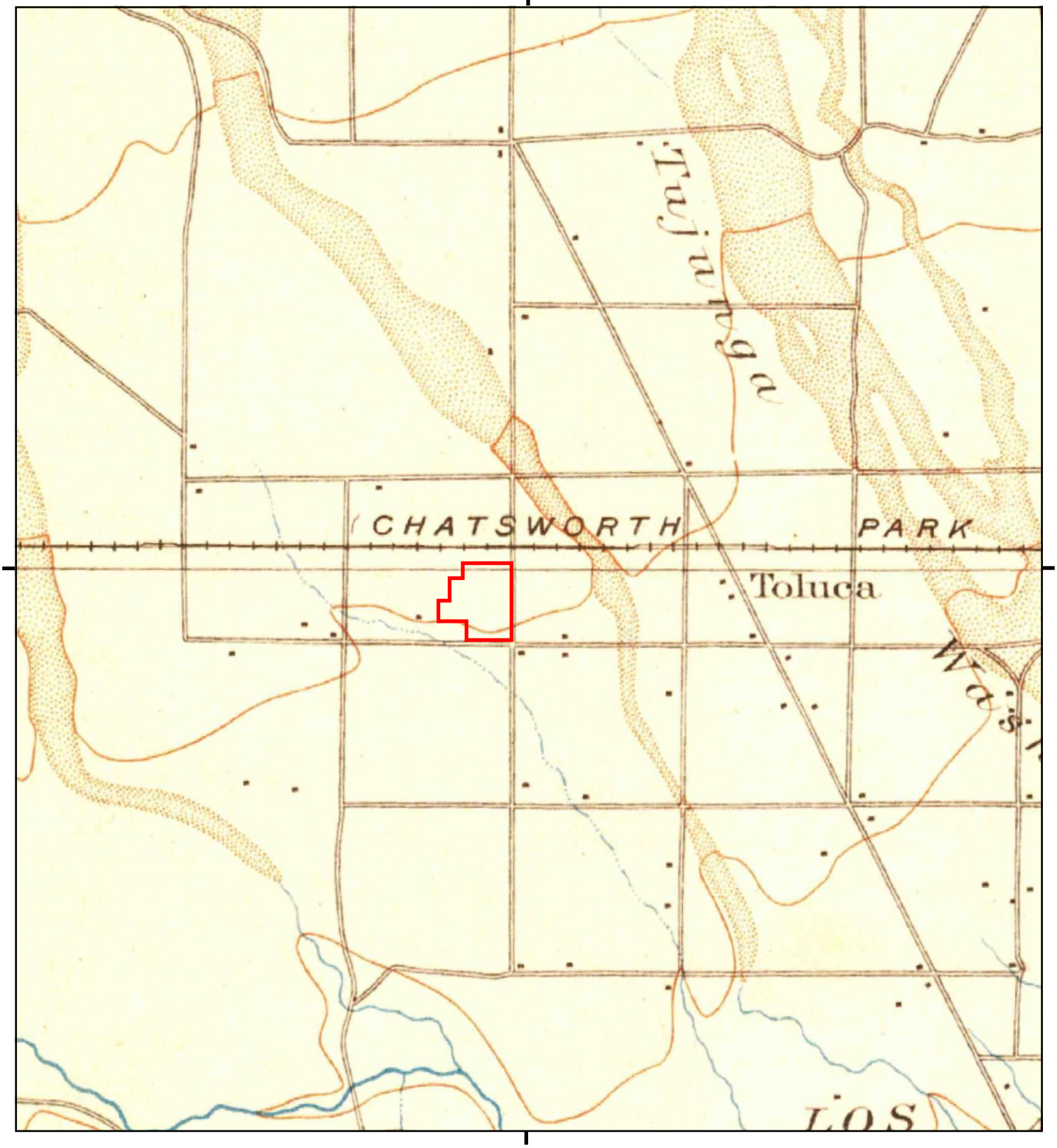
TP, Santa Monica, 1921, 15-minute

SITE NAME: NORTH HOLLYWOOD HIGH SCHOOL
ADDRESS: 5231 Colfax Ave
North Hollywood, CA 91601
CLIENT: E2 Managetech Solutions

N

Historical Topo Map

1902



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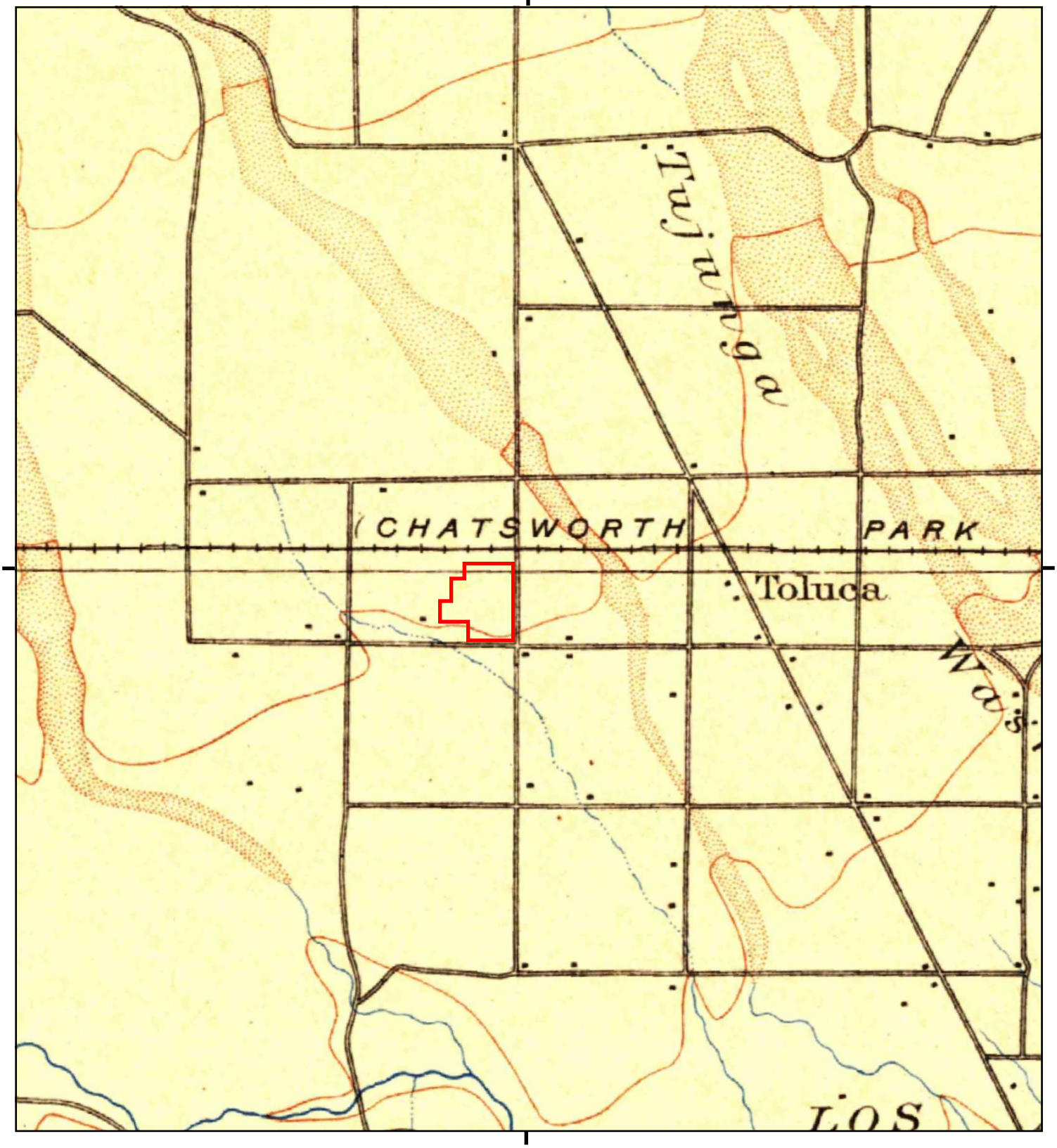
SW S SE

TP, Santa Monica, 1902, 15-minute

SITE NAME: NORTH HOLLYWOOD HIGH SCHOOL
ADDRESS: 5231 Colfax Ave
North Hollywood, CA 91601
CLIENT: E2 Managetech Solutions

N



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

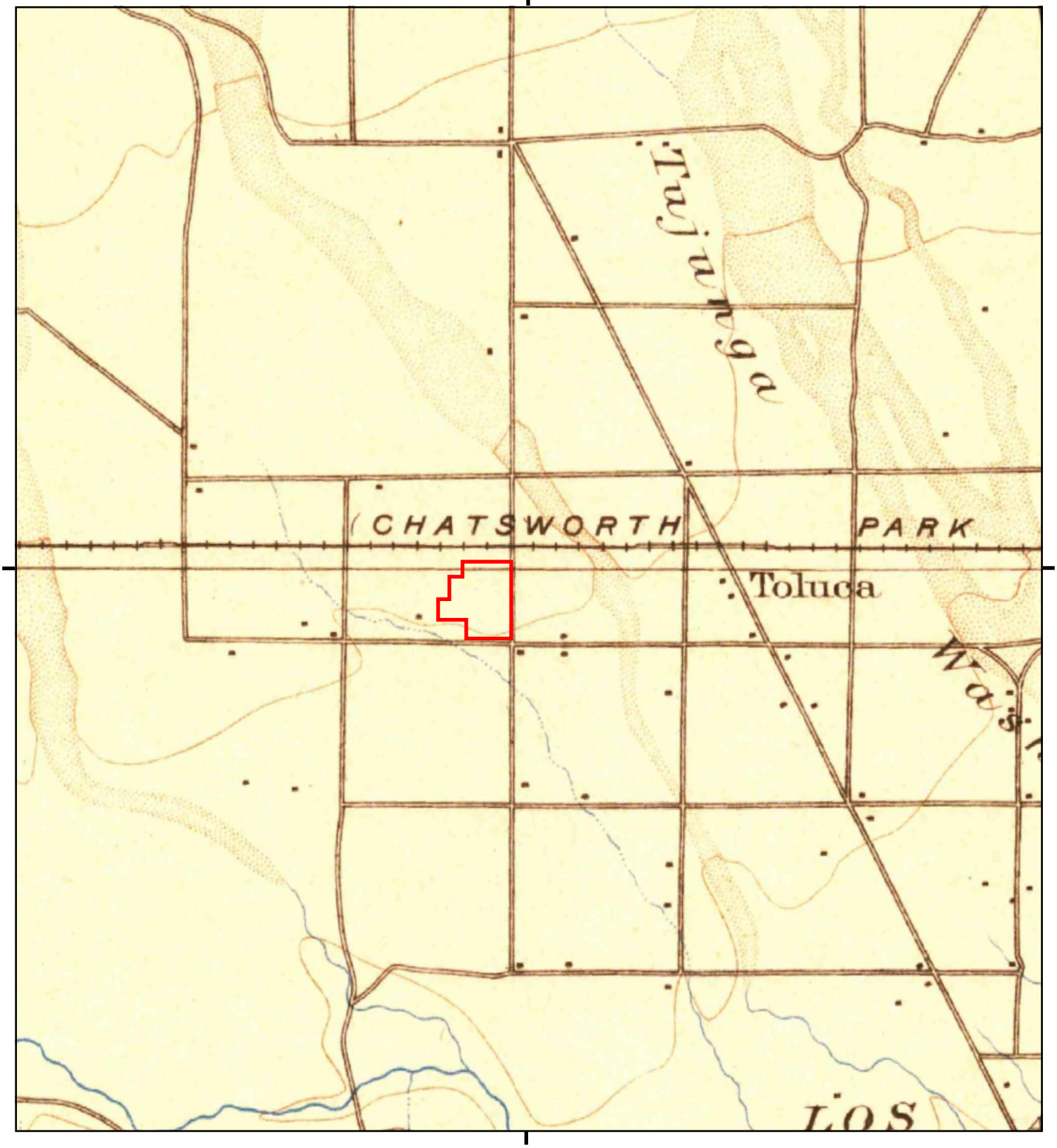
TP, Los Angeles, 1900, 15-minute

SITE NAME: NORTH HOLLYWOOD HIGH SCHOOL
ADDRESS: 5231 Colfax Ave
North Hollywood, CA 91601
CLIENT: E2 Managetech Solutions

N

Historical Topo Map

1898



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

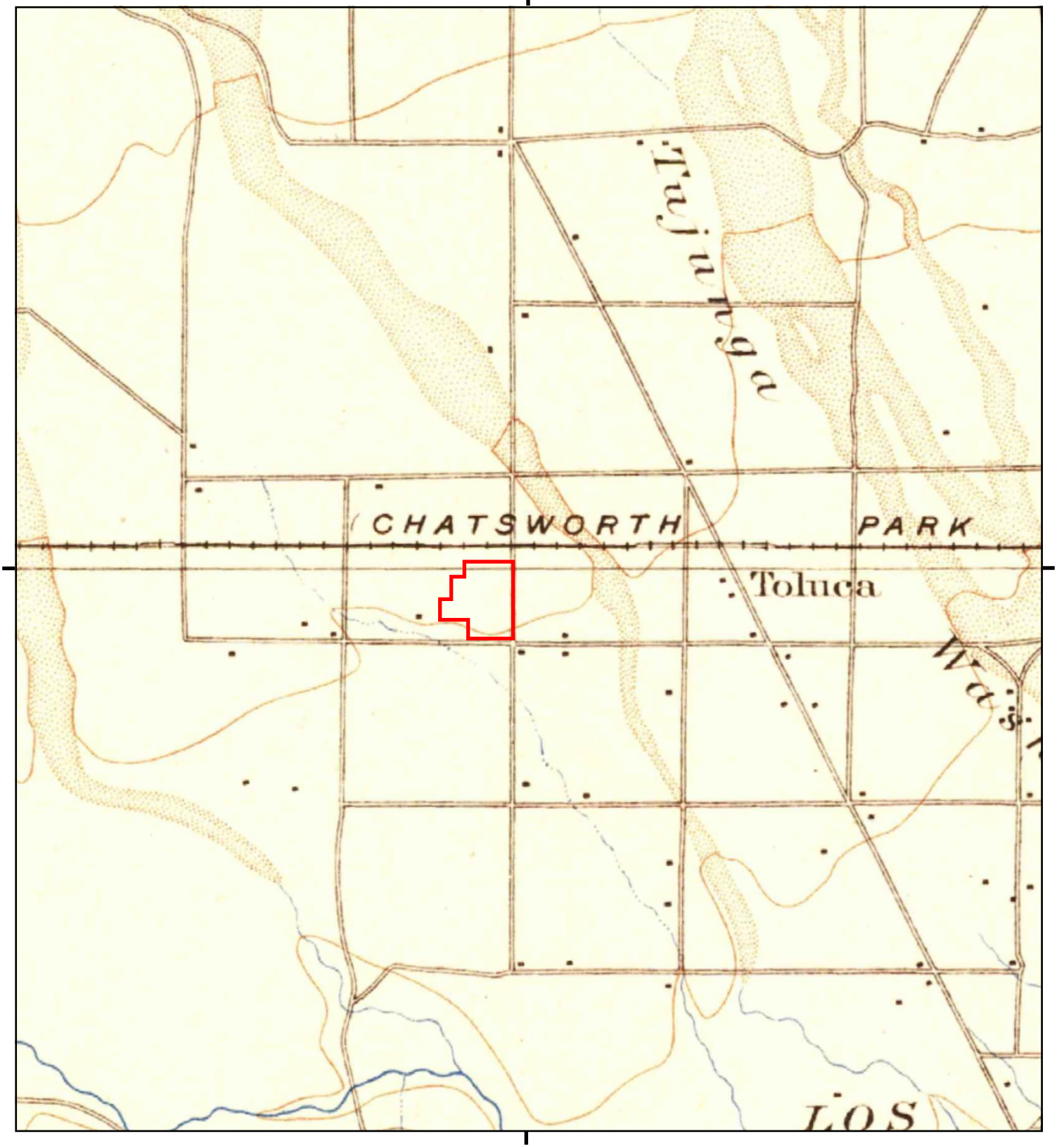
TP, Santa Monica, 1898, 15-minute

SITE NAME: NORTH HOLLYWOOD HIGH SCHOOL
ADDRESS: 5231 Colfax Ave
North Hollywood, CA 91601
CLIENT: E2 Managetech Solutions

N

Historical Topo Map

1896



This report includes information from the following map sheet(s).

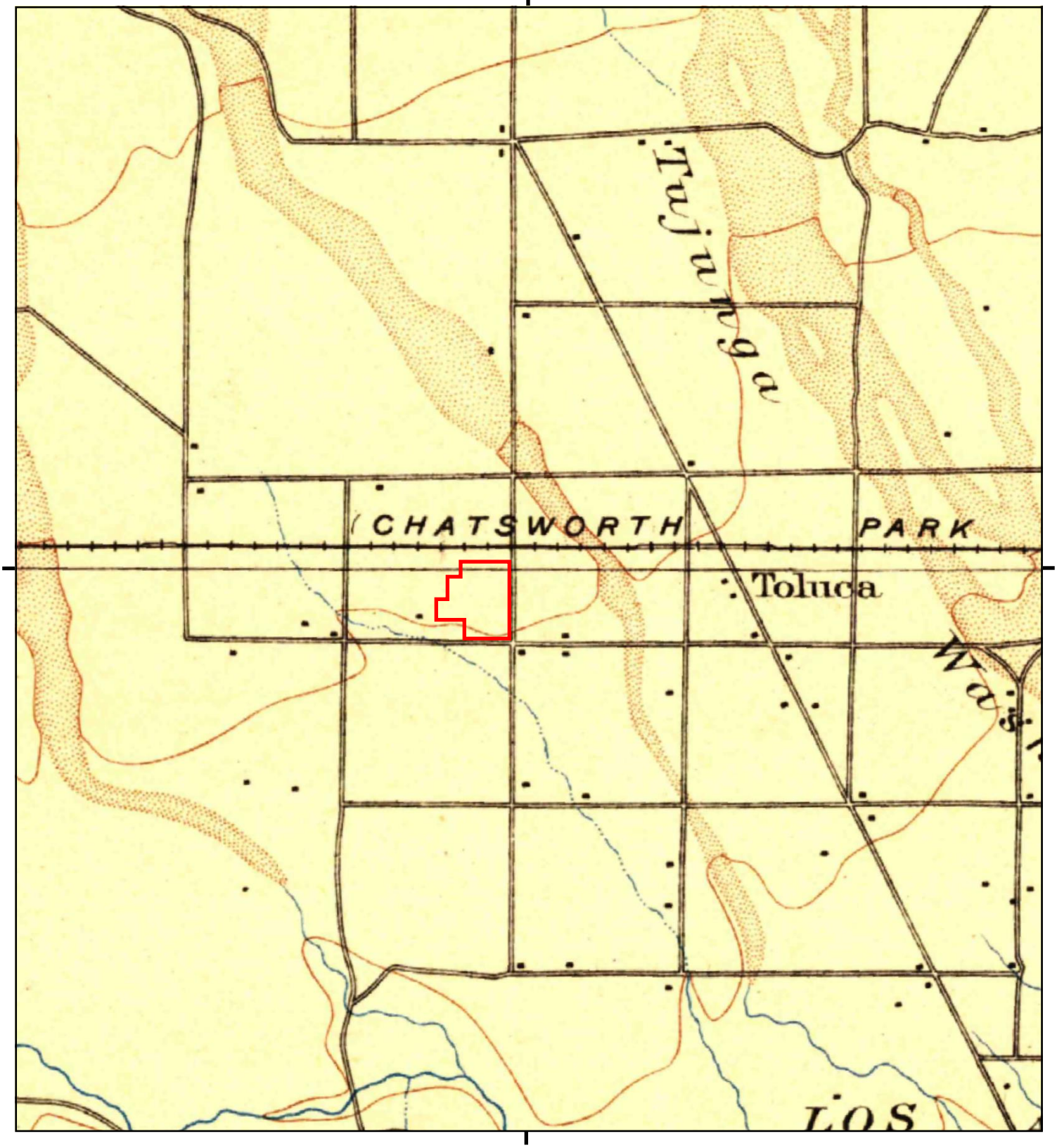
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Monica, 1896, 15-minute

SITE NAME: NORTH HOLLYWOOD HIGH SCHOOL
ADDRESS: 5231 Colfax Ave
North Hollywood, CA 91601
CLIENT: E2 Managetech Solutions

N



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, Los Angeles, 1894, 15-minute

SITE NAME: NORTH HOLLYWOOD HIGH SCHOOL
ADDRESS: 5231 Colfax Ave
North Hollywood, CA 91601
CLIENT: E2 Managetech Solutions

N

NORTH HOLLYWOOD HIGH SCHOOL
5231 Colfax Ave
North Hollywood, CA 91601

Inquiry Number: 4633410.5
May 31, 2016

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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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 2013. 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.

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
2013	Cole Information Services	X	X	X	-
2008	Cole Information Services	X	X	X	-
2006	Haines Company, Inc.	-	X	X	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	-	-	-
2001	Haines & Company, Inc.	X	X	X	-
2000	Haines	-	-	-	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	X	X	X	-
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	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	Pacific Telephone	-	X	X	-
1970	Pacific Telephone	X	X	X	-
1969	Pacific Telephone	-	-	-	-
1967	Pacific Telephone	-	X	X	-
1966	Pacific Telephone	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1965	GTE	-	-	-	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	X	X	X	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1958	Pacific Telephone	-	X	X	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	X	X	X	-
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	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.	X	X	X	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	X	X	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	X	X	X	-
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.	X	X	X	-
1929	Los Angeles Directory Co.	-	X	X	-
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.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

Address	*Type*	*Findings*
5355 Colfax Ave	Client Entered	
11825 W Magnolia Blvd	Client Entered	X
11839 W Magnolia Blvd	Client Entered	X
11855 W Magnolia Blvd	Client Entered	X
11821 W Magnolia Blvd	Client Entered	X
11815 W Magnolia Blvd	Client Entered	X
11809 W Magnolia Blvd	Client Entered	X
5242 Radford Ave	Client Entered	X
11816 Chandler Blvd	Client Entered	X
11820 Chandler Blvd	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

5231 Colfax Ave
North Hollywood, CA 91601

FINDINGS DETAIL

Target Property research detail.

COLFAX

5231 COLFAX

Year	*Uses*	*Source*
1935	NORTH HOLLYWD HIGH SCHOOL	Los Angeles Directory Co.

COLFAX AVE

5231 COLFAX AVE

Year	*Uses*	*Source*
2013	NORTH HOLLYWOOD HIGH SCHOOL	Cole Information Services
2008	LOS ANGELES UNIFID SCHOOL DST	Cole Information Services
	NORTH HOLLYWOOD HIGH SCHOOL	Cole Information Services
2001	NORTH HLYWD HIGH CMTY ADULT SC	Haines & Company, Inc.
	NORTH HLYWD HIGH DAY SC	Haines & Company, Inc.
	NORTH HLYWD HIGH SC INFO	Haines & Company, Inc.
1995	Community Adult School	Pacific Bell
	Day School	Pacific Bell
	North Hollywood High	Pacific Bell
	North Hollywood High School Information Line	Pacific Bell
	Red Cross Shelter	Pacific Bell
1991	Community Adult School	Pacific Bell
	Day School	Pacific Bell
	N ORTHHOLLYW OOD ICE CO	Pacific Bell
	North Hollywood High School Information Line	Pacific Bell
1985	Community Adult School	Pacific Bell
	Day School	Pacific Bell
	N ORTH HOLLYW OOD ICE CO	Pacific Bell
1980	NORTH HOLLYWOOD HIGH COMMUNITY ADULT SCHOOL	Pacific Telephone
1975	Community Adult School	Pacific Telephone

Year	Uses	Source
1970	EPHEBIAN SOCIETY	Pacific Telephone
	NORTH HOLLYWOOD ADULT SCHOOL	Pacific Telephone
	NORTH HOLLYWOOD HIGH SCHOOL	Pacific Telephone
	NORTH HOLLYWOOD PTA DENTAL CLINIC	Pacific Telephone
1962	NORTH HOLLYWD HIGH SCHOOL	Pacific Telephone
	NORTH HOLLYWD HIGH SCHOOL ADULT EVENING SCHOOL	Pacific Telephone
	NORTH HOLLYWD HIGH SCHOOL STUDENT BODY	Pacific Telephone
	NORTH HOLLYWD PTA SCHOOL HEALTH CENTER	Pacific Telephone
	NORTH HOLLYWOOD PTA DENTAL CLINIC	Pacific Telephone
1956	NORTH HOLLYWD GUIDANCE CENTRAL BRANCH	Pacific Telephone
	NORTH HOLLYWD HIGH SCHOOL	Pacific Telephone
	NORTH HOLLYWD HIGH SCHOOL ADULT EVENING SCHOOL	Pacific Telephone
	NORTH HOLLYWD P T A GUIDANCE CENTER	Pacific Telephone
	NORTH HOLLYWD P T A SCHOOL HEALTH CENTER	Pacific Telephone
	PRESSON HELEN V	Pacific Telephone
1950	BASKIN JACK INC	Pacific Telephone
	LOS ANGELES CITY BOARD OF EDUCATION ADMINISTRATIVE OFCS	Pacific Telephone
	LOS ANGELES CITY BOARD OF EDUCATION SENIOR HIGH SCHOOLS	Pacific Telephone
	NORTH HOLLYWD GUIDANCE CENTER BRANCH	Pacific Telephone
	NORTH HOLLYWD SENIOR HIGH SCHOOL	Pacific Telephone
1940	NORTH HOLLYWOOD HIGH SCHOOL	Los Angeles Directory Co.
1930	No Hwood High Sch	Los Angeles Directory Co.

COLFAX CT

5231 COLFAX CT

Year	Uses	Source
1975	Day School	Pacific Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Chandler Blvd

11816 Chandler Blvd

Year	Uses	Source
2006	APARTMENTS	Haines Company, Inc.
	DAWSON Karen	Haines Company, Inc.
	HAILEY James	Haines Company, Inc.
	LINKWIlemm	Haines Company, Inc.
	LOPEZ Michael	Haines Company, Inc.
	PUTMAN Km	Haines Company, Inc.

11820 Chandler Blvd

Year	Uses	Source
2006	GREEN B	Haines Company, Inc.
	RAISNER Craig T	Haines Company, Inc.

COLFAX

5146 COLFAX

Year	Uses	Source
1971	Aldos Hotel Supply	Pacific Telephone
1967	Aldos Hotel Supply	Pacific Telephone

COLFAX AVE

5131 COLFAX AVE

Year	Uses	Source
2013	5131 COLFAX AVENUE LLC	Cole Information Services
2006	LIZER Mark	Haines Company, Inc.
1980	SEWARD ETHEL M	Pacific Telephone
1970	PRESSON FRANK C	Pacific Telephone
	PRESSON FRANK C	Pacific Telephone
1962	PRESSON FRANK C	Pacific Telephone
1956	PRESSON FRANK C	Pacific Telephone
1950	MACGOWAN M R	Pacific Telephone
	MACGOWAN M R	Pacific Telephone

FINDINGS

5133 COLFAX AVE

Year	*Uses*	*Source*
1985	Mattson Edgar H	Pacific Bell
1980	MATTSON EDGER H	Pacific Telephone
1970	MATTSON EDGAR H	Pacific Telephone
	MATTSON EDGAR H	Pacific Telephone
1962	MATTSON EDGAR H	Pacific Telephone
1956	MATTSON EDGAR H	Pacific Telephone
1950	METCALF H D R	Pacific Telephone
	METCALF H D R	Pacific Telephone

5135 COLFAX AVE

Year	*Uses*	*Source*
1985	Ganjeh Roben	Pacific Bell
	Ganjeh Eglantine	Pacific Bell
1980	KHACHOTOR ARJANTIN	Pacific Telephone
1970	MCGHEE M B	Pacific Telephone
	MCGHEE M B	Pacific Telephone
1962	TIRRELL CHRISTINE D	Pacific Telephone
1956	TIRRELL CHRISTINE D	Pacific Telephone
1950	TIRRELL CHRISTINE D R	Pacific Telephone
	TIRRELL CHRISTINE D R	Pacific Telephone

5137 COLFAX AVE

Year	*Uses*	*Source*
1991	From Los Angeles Telephones Call	Pacific Bell
	Capiro & Freixes attys	Pacific Bell
	Freixes Gonzalo atty	Pacific Bell
	Capisani Nancy & Daniele	Pacific Bell
	From Los Angeles Telephones Call	Pacific Bell
	Capiro Rafael atty	Pacific Bell
	From Los Angeles Telephones Call	Pacific Bell
1990	CAPIRO & FREIXES ATTYS NH	Pacific Bell
	CAPIRO RAFAEL ATTY NH	Pacific Bell
	FREIXES GONZALO ATTY NH	Pacific Bell
1970	SEWARD ETHEL M MRS	Pacific Telephone
	SEWARD ETHEL M MRS	Pacific Telephone
1956	SEWARD ETHEL M MRS	Pacific Telephone

FINDINGS

5139 COLFAX AVE

Year	Uses	Source
1985	Marthas Alterations	Pacific Bell
	Mendoza Nellie	Pacific Bell
1970	VALDEZ H M	Pacific Telephone
	VALDEZ H M	Pacific Telephone
1962	LAX A MRS	Pacific Telephone
1956	LAX A MRS	Pacific Telephone
1950	MATTSON EDGAR H R	Pacific Telephone
	MATTSON EDGAR H R	Pacific Telephone

5140 COLFAX AVE

Year	Uses	Source
2013	ROMANTIC FLOWERS & GIFTS	Cole Information Services
2008	ROMANTIC FLOWERS & GIFTS	Cole Information Services
2006	FLOWERS & GIFTS	Haines Company, Inc.
	ROMANTIC	Haines Company, Inc.
1995	Millers Interior Decorating	Pacific Bell
1991	Around The Clock Mail	Pacific Bell
	Around The Clock Message Center Van Nuys	Pacific Bell
	Around The Clock Plumbing	Pacific Bell
1985	Arie Custom Upholstery	Pacific Bell
	Aries Custom Upholstery	Pacific Bell
1962	VALLEY UNITS	Pacific Telephone
1956	HOUSE OF RHYTHM	Pacific Telephone

5141 COLFAX AVE

Year	Uses	Source
2013	OWEN DEBORAH CPA BUS MGR CPAS	Cole Information Services
	OWEN & DESALVO CPAS	Cole Information Services
2008	2 COASTS 2 BRIDGES LLC	Cole Information Services
	ASPEN FILM SOCIETY	Cole Information Services
	OWEN & DESALVO CPAS	Cole Information Services
2006	CPAS OWEN DEBORAH	Haines Company, Inc.
	OWEN &DESALVO	Haines Company, Inc.
	DESALVO	Haines Company, Inc.
1991	Gibbons Mary Law Office	Pacific Bell
1980	AFSHAR TONY	Pacific Telephone
1970	RISCHE EDW	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	RISCHE EDW	Pacific Telephone
1956	BISHOP BARBARA L	Pacific Telephone
	MAC CONNELL GENEVIEVE	Pacific Telephone

5142 COLFAX AVE

Year	Uses	Source
1970	JO S BEAUTY SALON	Pacific Telephone
	JO S BEAUTY SALON	Pacific Telephone
1962	JO S BEAUTY SALON	Pacific Telephone
1956	JO S BEAUTY SALON	Pacific Telephone

5143 COLFAX AVE

Year	Uses	Source
1970	SUBIN BERNICE	Pacific Telephone
	SUBIN BERNICE	Pacific Telephone
1962	COANDA JOHN	Pacific Telephone
	COANDA PERSIDA	Pacific Telephone
1950	CLARK JUANITA R	Pacific Telephone
	CLARK JUANITA R	Pacific Telephone

5144 COLFAX AVE

Year	Uses	Source
2013	VALLEY LIQUOR	Cole Information Services
2008	C M M CORP	Cole Information Services
	NELSONS LIQUOR 2	Cole Information Services
2006	NELSONS LIQUOR	Haines Company, Inc.
1995	Jabys Liquor Junior Mkt	Pacific Bell
1991	Jabys Liquor Jr Mkt	Pacific Bell
1985	Jabys Liquor Jr Mkt	Pacific Bell
1980	JABY S LIQUOR JR MKT NORTH HOLLYWOOD	Pacific Telephone
1970	MAGNACENTER INC	Pacific Telephone
	MAGNASERVICE OF AMERICA	Pacific Telephone
	MAGNACENTER INC	Pacific Telephone
	MAGNASERVICE OF AMERICA	Pacific Telephone
1962	GLOBE FIBER GLASS DRAPERIES	Pacific Telephone

5145 COLFAX AVE

Year	Uses	Source
2013	24 HOUR LOCKSMITH	Cole Information Services

FINDINGS

Year	Uses	Source
2013	ERAWAN RESTAURANT	Cole Information Services
2008	ERAWAN RESTAURANT	Cole Information Services
2006	ERAWAN	Haines Company, Inc.
	RESTAURANT	Haines Company, Inc.
1995	Erawan Restaurant	Pacific Bell
1991	Erawan Restaurant	Pacific Bell
1985	Erawan Restaurant	Pacific Bell
1980	ERAWAN RESTAURANT	Pacific Telephone
1975	Marys Hamburgers	Pacific Telephone

5146 COLFAX AVE

Year	Uses	Source
2013	ANTIQUE UPHOLSTERING	Cole Information Services
	IL IPHONES IPHONE REPAIR	Cole Information Services
2008	ANTIQUE UPHOLSTERY	Cole Information Services
2006	UPHOLSTERING	Haines Company, Inc.
	UPHOLSTERING ANT 1 QUE	Haines Company, Inc.
	AOTIQUE	Haines Company, Inc.
2001	ELLIOT BRIAN RCRDNG	Haines & Company, Inc.
	EUROPEAN INTERNATL TRADE CO	Haines & Company, Inc.
	ANTIQUE UPHOLSTERING	Haines & Company, Inc.
1991	Carreras Fine Alterations & Fashions	Pacific Bell
	Carreras Leonard	Pacific Bell
1985	Carreras Fine Alterations & Fashions	Pacific Bell
	Elliot Brian Recording	Pacific Bell
	Elliot D H Roofing	Pacific Bell
1980	KAPLIPSO	Pacific Telephone
1976	Flowers By Charles	Pacific Telephone
1970	ALDO S HOTEL SUPPLY	Pacific Telephone
	ALDO S HOTEL SUPPLY	Pacific Telephone
1962	MEAT HOUSE THE MEAT RETL	Pacific Telephone
	THE MEAT HOUSE MEAT RETL	Pacific Telephone

5147 COLFAX AVE

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.
1980	THOMLOI KHORAPHIN	Pacific Telephone
1975	Venetantis Orthon	Pacific Telephone
1970	PETERSON BURTON	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	PETERSON BURTON	Pacific Telephone
1956	ANDRESEN L V	Pacific Telephone
1950	JOHNSON CARL E R	Pacific Telephone
	JOHNSON CARL E R	Pacific Telephone

5148 COLFAX AVE

Year	Uses	Source
2008	COLLECTORS CHOICE	Cole Information Services
	LAND OF MUSIC WIRELESS COM	Cole Information Services
2006	JUNGLE	Haines Company, Inc.
	COLLECTORS	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1995	Collectors Choice	Pacific Bell
1986	MANNY S PHARMACY NH	Pacific Bell
1985	From Los Angeles Telephones Call	Pacific Bell
	Mannys Pharmacy	Pacific Bell
1980	A TO Z HARDWARE	Pacific Telephone
1970	MAURIELLO S BARBER SHOP	Pacific Telephone
	MAURIELLO S BARBER SHOP	Pacific Telephone
1962	MAURIELLOS BARBER SHOP	Pacific Telephone
1956	MAURIELLO S BARBER SHOP	Pacific Telephone

5149 COLFAX AVE

Year	Uses	Source
2006	o THOMLOI Khoraphtn	Haines Company, Inc.
2001	THOMLOI Khoraphin	Haines & Company, Inc.
	PUASIRIRUTSKUL Saksit	Haines & Company, Inc.
1991	Thomloi Khoraphin	Pacific Bell
	Thomloi Khoraphin	Pacific Bell
1985	Thomloi Khoraphin	Pacific Bell
	Thomloi Khoraphin	Pacific Bell
1980	THOMLOI KHORAPHIN	Pacific Telephone
1975	Parks Mary	Pacific Telephone
1956	LUCE ROGER A	Pacific Telephone
1950	ROSENKRANTZ J E R	Pacific Telephone
	ROSENKRANTZ J E R	Pacific Telephone

FINDINGS

5150 COLFAX AVE

Year	Uses	Source
2013	COLFAX CLEANERS & LAUNDRY	Cole Information Services
2008	COLFAX LAUNDRY & CLEANERS	Cole Information Services
2001	COLFAX LAUNDRY & CLEANERS	Haines & Company, Inc.
	MILLER Milton	Haines & Company, Inc.
1995	Colfax Laundry & Cleaners	Pacific Bell
1991	Colfax Laundry & Cleaners	Pacific Bell
1985	Colfax Laundry	Pacific Bell
1980	COLFAX LAUNDRY	Pacific Telephone
1970	COLFAX LAUNDRY	Pacific Telephone
	ORLEY BILL	Pacific Telephone
	ORLEY BILL	Pacific Telephone
	ORLEY BILL	Pacific Telephone
	ORLEY BILL	Pacific Telephone
	COLFAX LAUNDRY	Pacific Telephone
1962	COLFAX HALF HOUR LAUNDRY	Pacific Telephone
1956	COLFAX HALF HOUR LAUNDRY	Pacific Telephone

5154 COLFAX AVE

Year	Uses	Source
1940	SCHOMEMANN CHRISTIAN W (O)	Los Angeles Directory Co.

5159 COLFAX AVE

Year	Uses	Source
1950	PAR-FAY FREEZE DRIVE-IN	Pacific Telephone
	PAR-FAY FREEZE DRIVE-IN	Pacific Telephone

5212 COLFAX AVE

Year	Uses	Source
2013	TELE INSURANCE SERVICE	Cole Information Services
	CONTINENTAL NEW MARKET	Cole Information Services
2008	ROSS CARLOCK & ASSOCS INC	Cole Information Services
	ABC RENTAL & CONSTRUCTION SERVICES	Cole Information Services
	L & A WIRELESS CENTER INC	Cole Information Services
2006	CARTERTene	Haines Company, Inc.
	COOKMARJORIEA	Haines Company, Inc.
	PHD JULIERENES	Haines Company, Inc.
	CLEANING	Haines Company, Inc.
	SERVICES TELEINSURANCE	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2006	SERVICE US INFORMATION	Haines Company, Inc.
	CENTER	Haines Company, Inc.
2001	COHEN Greenwald Smadar	Haines & Company, Inc.
	FUNTIME TRAVEL SERVICE	Haines & Company, Inc.
	HANDYMAN CONNECTION	Haines & Company, Inc.
	U S I C	Haines & Company, Inc.
1995	Estes Darrel H DC	Pacific Bell
	Funtime Travel Service	Pacific Bell
	Ritas Hand Ironing	Pacific Bell
1991	CPF Enterprises	Pacific Bell
	Estes Darrel H DC	Pacific Bell
	Jancy Inc	Pacific Bell
	Janczak Roman	Pacific Bell
	Levy David Enterprises	Pacific Bell
	Musullos Kevin Painting & Decorating	Pacific Bell
	Ritas Hand Ironing	Pacific Bell
1986	HOLLYWOOD SOUNTRACK INDUSTRIES NH	Pacific Bell
1985	Auerbach Norman & Associates	Pacific Bell
	Berdoo Music	Pacific Bell
	Berdoo West Creative Services	Pacific Bell
	Extra Phone	Pacific Bell
	Personal Growth Consultants	Pacific Bell
	Robinson Kathy	Pacific Bell
	Tate Jerry Tax Service	Pacific Bell
1981	WILSON EMMET H JR NH	Pacific Telephone
1980	ABELS BROS & ASSOCIATES MFR REP	Pacific Telephone
	BRIZENDINE RICHARD C	Pacific Telephone
	FERMAN L	Pacific Telephone
	GREENFIELD WM	Pacific Telephone
	PERSONAL GROWTH CONSULTANTS	Pacific Telephone
	STENDER H ROBT DR DNTST	Pacific Telephone
	WILSON EMMET H JR	Pacific Telephone
1976	Abels Bros Associates mfr rep	Pacific Telephone
	Wilson Emmet H Jr	Pacific Telephone
1975	Personal Growth Consultants	Pacific Telephone
	Siebert Curtis W	Pacific Telephone
1970	BURLEW & ASSOCIATES RBD	Pacific Telephone
	BURROWS DENTAL ARTS	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	JURDAN M L	Pacific Telephone
	MONIOT VINCENT DR DNTST	Pacific Telephone
	ROJAS R S	Pacific Telephone
	RUTTER GEO A	Pacific Telephone
	BURLEW & ASSOCIATES RBD	Pacific Telephone
	BURROWS DENTAL ARTS	Pacific Telephone
	JURDAN M L	Pacific Telephone
	MONIOT VINCENT DR DNTST	Pacific Telephone
	ROJAS R S	Pacific Telephone
	RUTTER GEO A	Pacific Telephone
1962	BAYKIAN GLORIA NORTH HOLLYWOOD	Pacific Telephone
	BURLEW CLIFF ASSOCIATES	Pacific Telephone
	EMMETT ROBT R DR DNTST	Pacific Telephone
	MONIOT VINCENT DR DNTST	Pacific Telephone
	RUTTER GEO A	Pacific Telephone
1956	BURLEW CLIFFORD DRFTNG	Pacific Telephone
	EMMETT ROBT R DR DNTST NORTH HOLLYWOOD	Pacific Telephone
	JONES MARY VIRGINIA	Pacific Telephone
	SHAW LUTHER U DO	Pacific Telephone
	WITTLINGER GEO H	Pacific Telephone

5214 COLFAX AVE

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.

5220 COLFAX AVE

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.
1991	Lee Sun Duek	Pacific Bell
1980	CONLAN JOE & LYN	Pacific Telephone
1975	Durkin Thos	Pacific Telephone
1970	MANN E H	Pacific Telephone
	MANN E H	Pacific Telephone
1962	LEBOVITZ ROSE	Pacific Telephone
1956	ANDERSON DON	Pacific Telephone
1950	ANDERSON DON R	Pacific Telephone
	ANDERSON DON R	Pacific Telephone

FINDINGS

5222 COLFAX AVE

Year	Uses	Source
2001	CHRISTENSEN Dale	Haines & Company, Inc.
1991	Hernandez Marta	Pacific Bell
1962	MORRIS DAISY E	Pacific Telephone
1956	PREBLE A M	Pacific Telephone
1950	MANN E H R	Pacific Telephone
	MANN E H R	Pacific Telephone

5237 COLFAX AVE

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.

5240 COLFAX AVE

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.
1980	HATCHER S B	Pacific Telephone
1970	STEELE GENE	Pacific Telephone
	STEELE GENE	Pacific Telephone
1962	O NEIL A	Pacific Telephone
1950	WINTON M R	Pacific Telephone
	JACOBS A R	Pacific Telephone
	WINTON M R	Pacific Telephone
	JACOBS A R	Pacific Telephone

5242 COLFAX AVE

Year	Uses	Source
1985	Campana Anthony C	Pacific Bell
1970	DAVIS LEWIS C	Pacific Telephone
	DAVIS LEWIS C	Pacific Telephone
1956	FULLER THELMA D	Pacific Telephone
1950	FRENCH BEN E R	Pacific Telephone
	FRENCH BEN E R	Pacific Telephone

5250 COLFAX AVE

Year	Uses	Source
2006	ESPINOSA Karen	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1991	Tirabasso Claude	Pacific Bell
1980	CANIFRO FLOR	Pacific Telephone
1970	SANDERSON CARMEN	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	SANDERSON CARMEN	Pacific Telephone
1950	JESSUP MARGARET MRS R	Pacific Telephone
	JESSUP MARGARET MRS R	Pacific Telephone

5252 COLFAX AVE

Year	Uses	Source
2001	WALDEN Lynn	Haines & Company, Inc.
1980	LACUESTA FELIPA VICTORIA	Pacific Telephone
1975	Badgley Helen	Pacific Telephone
1970	AGNEW A L	Pacific Telephone
	AGNEW A L	Pacific Telephone
1962	KOCHERSPERGER RUTH	Pacific Telephone
1956	WORCESTER MADA	Pacific Telephone

5302 COLFAX AVE

Year	Uses	Source
2001	DAIL Sukhdev	Haines & Company, Inc.
1985	Shatter T M	Pacific Bell
1970	SZTANKAY NANDOR	Pacific Telephone
	SZTANKAY ILONA	Pacific Telephone
	SZTANKAY ILONA	Pacific Telephone
	SZTANKAY NANDOR	Pacific Telephone
1962	HUGHES ARCHIE	Pacific Telephone
1956	FOX FREDERICK A MD	Pacific Telephone
1950	NELSON GUY R R	Pacific Telephone
	NELSON GUY R R	Pacific Telephone

5304 COLFAX AVE

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.
1991	Scott Brian D	Pacific Bell
1985	Moore A	Pacific Bell
1956	ZIFFRIN H A	Pacific Telephone
1950	KRIEGER L R	Pacific Telephone
	KRIEGER L R	Pacific Telephone

5306 COLFAX AVE

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.
1962	MUNRO MARGARET	Pacific Telephone

FINDINGS

Year	Uses	Source
1962	TIEMAN KENNETH	Pacific Telephone
1956	MODINE ALLEN J	Pacific Telephone
1950	DONLIN LOGAN L R	Pacific Telephone
	DONLIN LOGAN L R	Pacific Telephone

5308 COLFAX AVE

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.
1980	MERCADO D	Pacific Telephone
1975	Mercado D	Pacific Telephone
1962	SMITH ELMYN E	Pacific Telephone
1956	GREEN WM E	Pacific Telephone
1950	GREEN WM E R	Pacific Telephone
	GREEN WM E R	Pacific Telephone

5312 COLFAX AVE

Year	Uses	Source
1991	Downing Shawn	Pacific Bell

5314 COLFAX AVE

Year	Uses	Source
2001	GREGORY Bell	Haines & Company, Inc.
1985	Brady Leon	Pacific Bell
1980	PONTON TAMI	Pacific Telephone

5316 COLFAX AVE

Year	Uses	Source
2008	EMPTY LOFT	Cole Information Services
1980	PARNELL W H	Pacific Telephone

5336 COLFAX AVE

Year	Uses	Source
2006	STAUFFER David	Haines Company, Inc.
	PENA Raul	Haines Company, Inc.
2001	STAUFFER David	Haines & Company, Inc.
1995	Stauffer David	Pacific Bell
	i Stauffer David	Pacific Bell
1985	Rorke Richard	Pacific Bell
1970	FANKBONER S B	Pacific Telephone
	FANKBONER S B	Pacific Telephone

Year	Uses	Source
1962	FERTE EMILY A	Pacific Telephone
1956	FERTE EMILY A	Pacific Telephone
1950	HOLLANDSWNRTH KEITH B R	Pacific Telephone
	HOLLANDSWNRTH KEITH B R	Pacific Telephone

5340 COLFAX AVE

Year	Uses	Source
2006	o SCHELVIS Leo A	Haines Company, Inc.
2001	SCHELVIS Leo A	Haines & Company, Inc.
1995	Schelvis Leo A	Pacific Bell
1991	Schelvis Leo A	Pacific Bell
1985	Schelvis Leo A	Pacific Bell
1980	SCHELVIS LEO A	Pacific Telephone
1970	STEDMAN JOY	Pacific Telephone
	STEDMAN JOY	Pacific Telephone
1962	CROWDER CLYDE S MRS	Pacific Telephone
1956	CROWDER CLYDE S MRS	Pacific Telephone
1950	TRAVERSO S J R	Pacific Telephone
	TRAVERSO S J R	Pacific Telephone

5341 COLFAX AVE

Year	Uses	Source
1956	SCHOENERT DON P	Pacific Telephone

5353 COLFAX AVE

Year	Uses	Source
2001	EARHART HIGH SCHOOL	Haines & Company, Inc.

5354 COLFAX AVE

Year	Uses	Source
2001	KARACA Hagop	Haines & Company, Inc.
	LAWRENCE Tim	Haines & Company, Inc.
1995	Ordung Wyott	Pacific Bell
1980	GROSSMAN SARAH F NORTH HOLLYWOOD	Pacific Telephone
	VAN ROEKEL LYNDA	Pacific Telephone

5355 COLFAX AVE

Year	Uses	Source
2008	AMELIA EARHART HIGH SCHOOL	Cole Information Services

FINDINGS

5146 1/2 COLFAX AVE

Year	Uses	Source
1980	ELLIOT BRIAN RECORDING STUDIOS	Pacific Telephone
	ELLIOT BRIAN RECORDING	Pacific Telephone
1970	COLFAX MKT	Pacific Telephone
	COLFAX MKT	Pacific Telephone
1962	COLFAX MKT	Pacific Telephone
1956	GURFEIN TED TED S KOSHER MEATS	Pacific Telephone
	TED S KOSHER MEATS	Pacific Telephone
	REBBES GROCERY	Pacific Telephone

5149 1/2 COLFAX AVE

Year	Uses	Source
1970	DOTSON CRAIG	Pacific Telephone
	DOTSON CRAIG	Pacific Telephone
1962	PENNOCK VIRGINIA MRS	Pacific Telephone
1956	ALLEVA MAGGIE	Pacific Telephone
1950	DORIUS RAY QUINN R	Pacific Telephone
	DORIUS RAY QUINN R	Pacific Telephone

5312 1/2 COLFAX AVE

Year	Uses	Source
1962	STAIDLE THEO JR	Pacific Telephone
1956	MELLOR O W MRS	Pacific Telephone

5312 1/4 COLFAX AVE

Year	Uses	Source
1980	NOVI CASSANDRA M	Pacific Telephone
1956	SCHULTZ THOS L	Pacific Telephone
1950	STEVENSON GEO W R	Pacific Telephone
	STEVENSON GEO W R	Pacific Telephone

5314 1/2 COLFAX AVE

Year	Uses	Source
1956	JOHNS HELEN J	Pacific Telephone

5336 1/2 COLFAX AVE

Year	Uses	Source
1962	TRAVERSO S J	Pacific Telephone
1956	TRAVERSO S J	Pacific Telephone
1950	BENDER A F R	Pacific Telephone

Year	Uses	Source
1950	BENDER A F R	Pacific Telephone

5340 1/2 COLFAX AVE

Year	Uses	Source
1970	GREENE GLADYS MRS	Pacific Telephone
	GREENE GLADYS MRS	Pacific Telephone
1962	MCNALLY F B	Pacific Telephone
1950	HANDZEL EDW R R	Pacific Telephone
	HANDZEL EDW R R	Pacific Telephone

COLFAX AVE N

5302 COLFAX AVE N

Year	Uses	Source
1995	Shaffer TM	Pacific Bell

COLFAX CT

5131 COLFAX CT

Year	Uses	Source
1975	Presson Frank C	Pacific Telephone

5132 COLFAX CT

Year	Uses	Source
1975	Clensos Bettylou	Pacific Telephone

5133 COLFAX CT

Year	Uses	Source
1975	Mattson Edgar H	Pacific Telephone

5135 COLFAX CT

Year	Uses	Source
1975	Mc Ghee M B	Pacific Telephone

5137 COLFAX CT

Year	Uses	Source
1975	Seward Ethel M Mrs	Pacific Telephone

5139 COLFAX CT

Year	Uses	Source
1980	MATTSON EDGAR H R	Pacific Telephone

Year	Uses	Source
1975	Franke S	Pacific Telephone

5141 COLFAX CT

Year	Uses	Source
1975	Rische Edw	Pacific Telephone

5144 COLFAX CT

Year	Uses	Source
1975	Jabys Liquor Jr Mkt	Pacific Telephone
1958	Park Interiors	Pacific Telephone

5146 COLFAX CT

Year	Uses	Source
1975	Flowers By Charles	Pacific Telephone
	Em Jay Quality Meats	Pacific Telephone

5150 COLFAX CT

Year	Uses	Source
1975	Orley Mary Colfax Laundry	Pacific Telephone
	Orley Bill	Pacific Telephone
	Colfax Laundry	Pacific Telephone

5212 COLFAX CT

Year	Uses	Source
1975	Gaby Robbins Draperies	Pacific Telephone
	Greenfield Wm	Pacific Telephone
	Jay Mi Drapery	Pacific Telephone
	Cue Co	Pacific Telephone
	Moniot Vincent Dr dntst	Pacific Telephone

5222 COLFAX CT

Year	Uses	Source
1975	Mason Danl F	Pacific Telephone

5240 COLFAX CT

Year	Uses	Source
1975	Hatcher S B	Pacific Telephone

5242 COLFAX CT

Year	Uses	Source
1975	Chivers John W	Pacific Telephone

FINDINGS

5312 COLFAX CT

Year	Uses	Source
1975	Davis Burl	Pacific Telephone

5314 COLFAX CT

Year	Uses	Source
1975	Borger David	Pacific Telephone

5316 COLFAX CT

Year	Uses	Source
1975	Clay G E	Pacific Telephone

5336 COLFAX CT

Year	Uses	Source
1975	Hadley Richard R	Pacific Telephone
	Grasso Sal	Pacific Telephone

HARTSOOK

11723 HARTSOOK

Year	Uses	Source
1985	Swain Bobby L	Pacific Bell

HARTSOOK ST

11647 HARTSOOK ST

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.

11688 HARTSOOK ST

Year	Uses	Source
1956	WAYNE CERAMICS	Pacific Telephone

11710 HARTSOOK ST

Year	Uses	Source
2006	a LOUZing	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1991	Lou J	Pacific Bell
1980	LEPAK PETER J	Pacific Telephone
1970	HURTY C O MRS	Pacific Telephone
	HURTY C O MRS	Pacific Telephone
1962	HURTY C O MRS	Pacific Telephone

FINDINGS

Year	Uses	Source
1950	TOOMBS HARVEY F R	Pacific Telephone
	TOOMBS HARVEY F R	Pacific Telephone

11712 HARTSOOK ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1980	ROLLAND D	Pacific Telephone
1962	CLARKE DENNIS S	Pacific Telephone
1950	HALE L E MRS R	Pacific Telephone
	HALE L E MRS R	Pacific Telephone

11721 HARTSOOK ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2001	CHEUNG Tak	Haines & Company, Inc.

11722 HARTSOOK ST

Year	Uses	Source
2006	GARCIA Peter	Haines Company, Inc.
	a TEBBANC RIchard	Haines Company, Inc.
2001	TEBBANO Richard	Haines & Company, Inc.
1962	BRANCH JAS B	Pacific Telephone
	BRANCH JAS B	Pacific Telephone
1956	SEDDON WM A	Pacific Telephone
1950	SEDDON WM A R	Pacific Telephone
	SEDDON WM A R	Pacific Telephone

11723 HARTSOOK ST

Year	Uses	Source
2006	SWAIN Bobby L	Haines Company, Inc.
2001	SWAIN Bobby L	Haines & Company, Inc.
1995	Swain Bobby L	Pacific Bell
1980	KHACHOUTOUIKEH ARJANTIN	Pacific Telephone
1970	MARTIN ART	Pacific Telephone
	MARTIN ART	Pacific Telephone
1962	RUDERMAN GEO L	Pacific Telephone
1958	Ruderman Geo L	Pacific Telephone
1956	RUDERMAN GEO L	Pacific Telephone
1950	WILLS VIRGINIA R	Pacific Telephone

FINDINGS

Year	Uses	Source
1950	WILLS VIRGINIA R	Pacific Telephone

11728 HARTSOOK ST

Year	Uses	Source
2006	a COTFER Karen	Haines Company, Inc.
2001	COTTER Karen	Haines & Company, Inc.
1970	DAVIS DOROTHY M	Pacific Telephone
	DAVIS DOROTHY M	Pacific Telephone
1962	HAMILL JOS	Pacific Telephone
1956	HAMILL JOS	Pacific Telephone

11729 HARTSOOK ST

Year	Uses	Source
2006	DONOHUEGerald	Haines Company, Inc.
2001	DONOHUE Gerald	Haines & Company, Inc.
1991	Donohue Alba H	Pacific Bell
	Donohue Alba H	Pacific Bell
	Donohue B	Pacific Bell
	Donohue Bl	Pacific Bell
	Donohue Betty L	Pacific Bell
	Donohue C	Pacific Bell
	Donohue Faye & John Tul	Pacific Bell
	Donohue GJ	Pacific Bell
1985	Donohue Alba H	Pacific Bell
	Donohue Alba H	Pacific Bell
	Donohue G J	Pacific Bell
1980	DONOHUE ALBA H	Pacific Telephone
	DONOHUE ALBA H	Pacific Telephone
	DONOHUE G J	Pacific Telephone
1970	LOVE BELTON LEE	Pacific Telephone
	LOVE BELTON LEE	Pacific Telephone
1950	STEELE LEO R	Pacific Telephone
	STEELE LEO R	Pacific Telephone

11734 HARTSOOK ST

Year	Uses	Source
2006	a BERKOVICH Frank	Haines Company, Inc.
2001	BERKOVICH Frank	Haines & Company, Inc.
1995	Berkovich Frank	Pacific Bell

FINDINGS

Year	Uses	Source
1991	Berkovich Frank	Pacific Bell
	Berkovich Gary	Pacific Bell
1985	Berkovich Frank	Pacific Bell
	Berkovlch Harry	Pacific Bell
1980	BERKOVICH FRANK	Pacific Telephone
1970	BLACKBURNE HAROLD E	Pacific Telephone
	BLACKBURNE HAROLD E	Pacific Telephone
1962	BLACKBURNE HAROLD E	Pacific Telephone
1956	BLACKBURNE HAROLD E	Pacific Telephone
1950	BLACKBURNE HAROLD E R	Pacific Telephone
	BLACKBURNE HAROLD E R	Pacific Telephone

11737 HARTSOOK ST

Year	Uses	Source
2006	a GURINCharyl	Haines Company, Inc.
	HEBB Odan	Haines Company, Inc.
2001	GURIN Cheryl	Haines & Company, Inc.
1995	Davis Fred W	Pacific Bell
1991	Davis Fred W	Pacific Bell
1985	Davis Fred W	Pacific Bell
	Davis G Tuj	Pacific Bell
	Davis G	Pacific Bell
	Davis G	Pacific Bell
	Davis G	Pacific Bell
1980	DAVIS FRED W	Pacific Telephone
1970	FARR JAMES E	Pacific Telephone
	FARR JAMES E	Pacific Telephone
1962	GAVIGNO BARBARA	Pacific Telephone
1950	ANDERSON A M MRS R	Pacific Telephone
	ANDERSON A M MRS R	Pacific Telephone

11740 HARTSOOK ST

Year	Uses	Source
1991	Montgomery L	Pacific Bell
	Montgomery Kirk	Pacific Bell
	Montgomery L	Pacific Bell
1980	MONTGOMERY DOMIAN	Pacific Telephone
	MONTGOMERY DEVIN	Pacific Telephone
	MONTGOMERY KIRK	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	SANDIFUR CLAUDE W MRS	Pacific Telephone
	SANDIFUR CLAUDE W MRS	Pacific Telephone
1962	SANDIFUR CLAUDE W MRS	Pacific Telephone
1950	SANDIFUR CLAUDE W R	Pacific Telephone
	SANDIFUR CLAUDE W R	Pacific Telephone

11743 HARTSOOK ST

Year	Uses	Source
2001	CORNETT Robert	Haines & Company, Inc.
1970	SCHAFER A W	Pacific Telephone
	SCHAFER A W	Pacific Telephone
1962	SCHAFER A W	Pacific Telephone
1958	Schafer A W	Pacific Telephone
1956	SCHAFER A W	Pacific Telephone
1950	SCHAFER A W R	Pacific Telephone
	SCHAFER A W R	Pacific Telephone

11746 HARTSOOK ST

Year	Uses	Source
2001	ANGELICH Marion	Haines & Company, Inc.
1962	HAUKENBERRY E F DR	Pacific Telephone
1956	HAUKENBERRY E F DR	Pacific Telephone

11752 HARTSOOK ST

Year	Uses	Source
1985	Carolla Jas P	Pacific Bell
1975	Horner Jedediah	Pacific Telephone
1970	LASATER CO MFRS REP	Pacific Telephone
	LASATER CO MFRS REP	Pacific Telephone
	LASATER GENE	Pacific Telephone
	LASATER GENE	Pacific Telephone
1962	LASATER H E	Pacific Telephone
	LASATER CO MFRS REP	Pacific Telephone
1958	Lasater Co mfrs rep	Pacific Telephone
1956	LASATER H E	Pacific Telephone
1950	LASATER H E R	Pacific Telephone
	LASATER H E R	Pacific Telephone

FINDINGS

11753 HARTSOOK ST

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.
1995	Mye Irene	Pacific Bell
	Nye Gary & Shannon	Pacific Bell
1985	Nye Irene	Pacific Bell
1980	NYE IRENE	Pacific Telephone
1962	SELLARS FRANK B	Pacific Telephone
1956	SELLARDS FRANK B	Pacific Telephone
1950	SELLARDS FRANK B R	Pacific Telephone
	SELLARDS FRANK B R	Pacific Telephone

11721 1/2 HARTSOOK ST

Year	Uses	Source
1970	LADEIFA PHIL	Pacific Telephone
	LADEIFA PHIL	Pacific Telephone
1956	WILLIAMS RAYMOND	Pacific Telephone
1950	MCGLOCKLIN JOE L R	Pacific Telephone
	MCGLOCKLIN JOE L R	Pacific Telephone

11723 1/2 HARTSOOK ST

Year	Uses	Source
1980	LEVINE F	Pacific Telephone
1970	WYNN STEPHEN R	Pacific Telephone
	WYNN STEPHEN R	Pacific Telephone
1956	LOW D M	Pacific Telephone

IRVINE AVE

5216 IRVINE AVE

Year	Uses	Source
1962	BROWN NAOML M	Pacific Telephone

5224 IRVINE AVE

Year	Uses	Source
2008	NOHO COMMUNICATIONS GROUP	Cole Information Services
2006	a BIANCONI Nancy	Haines Company, Inc.
2001	UNIT ONE	Haines & Company, Inc.
	UNIT ONE	Haines & Company, Inc.
	DIFFLEY Frank	Haines & Company, Inc.
	CAPTAIN COOK RESORTS	Haines & Company, Inc.

FINDINGS

Year	Uses	Source
1995	Diffley Frank	Pacific Bell
1991	Diftfey Frank	Pacific Bell
1975	Johanson Flora A	Pacific Telephone
1970	JOHANSON FLORA A	Pacific Telephone
	JOHANSON FLORA A	Pacific Telephone
1962	JOHANSON FLORA A	Pacific Telephone

5228 IRVINE AVE

Year	Uses	Source
2001	BRITT Ann	Haines & Company, Inc.
	KEIGHAN Matt	Haines & Company, Inc.
1970	RUTLEDGE BESS L	Pacific Telephone
	RUTLEDGE WM	Pacific Telephone
	RUTLEDGE BESS L	Pacific Telephone
	RUTLEDGE WM	Pacific Telephone
1962	RUTLEDGE WM	Pacific Telephone
1956	RUTLEDGE WM	Pacific Telephone
1950	TINNING GRAHAM R	Pacific Telephone
	TINNING GRAHAM R	Pacific Telephone
1940	KARR WM E	Los Angeles Directory Co.

5232 IRVINE AVE

Year	Uses	Source
2006	a KUHN L	Haines Company, Inc.
2001	KUHN L	Haines & Company, Inc.
	MILLMAN S	Haines & Company, Inc.
1995	Kuhn L	Pacific Bell
1991	Kuhn L	Pacific Bell
1975	Frost Kama	Pacific Telephone
	Frost Noreen	Pacific Telephone
1970	FROST NOREEN	Pacific Telephone
	FROST NOREEN	Pacific Telephone
1962	SANDERSON DOROTHY C MRS	Pacific Telephone
1956	MADIAN SYDNEY	Pacific Telephone
1950	BORNEMAN EMMA R	Pacific Telephone
	BORNEMAN EMMA R	Pacific Telephone
1940	BORNEMAN EMMA MRS (O)	Los Angeles Directory Co.

FINDINGS

5238 IRVINE AVE

Year	Uses	Source
2006	a WILSON F	Haines Company, Inc.
	a WILSON M	Haines Company, Inc.
2001	WILSON M	Haines & Company, Inc.
	WILSON F	Haines & Company, Inc.
1975	Sterry Douglas D	Pacific Telephone
1970	STERRY DOUGLAS D	Pacific Telephone
	STERRY DOUGLAS D	Pacific Telephone
1962	STERRY DOUGLAS D	Pacific Telephone
1956	STERRY DOUGLAS D	Pacific Telephone
1950	SICA ALFRED G MRS R	Pacific Telephone
	SICA ALFRED G MRS R	Pacific Telephone
1940	STEWART ARTH 0 (O)	Los Angeles Directory Co.

5242 IRVINE AVE

Year	Uses	Source
2006	a MELKONYAN Kadna	Haines Company, Inc.
2001	REYNOLDS Ann	Haines & Company, Inc.
1985	Beal Wm	Pacific Bell
	Beal Wm D	Pacific Bell
1980	SERIZAWA SATOSHI	Pacific Telephone
1975	Hawkins Ray E	Pacific Telephone
1970	HAWKINS RAY E	Pacific Telephone
	HAWKINS RAY E	Pacific Telephone
1962	HAWKINS RAY B	Pacific Telephone
1956	HAWKINS RAY E	Pacific Telephone
1950	HAWKINS RAY E R	Pacific Telephone
	HAWKINS RAY E R	Pacific Telephone
1940	HAWKINS RAYMOND E (O)	Los Angeles Directory Co.

5244 IRVINE AVE

Year	Uses	Source
2006	a ELWELL Sara	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1991	Miliman Dan	Pacific Bell
1980	SMITH ELLA M	Pacific Telephone
1975	Smith J Gordon	Pacific Telephone
1970	SMITH J GORDON	Pacific Telephone
	SMITH J GORDON	Pacific Telephone

Year	Uses	Source
1962	SMITH J GORDON	Pacific Telephone
1956	QUINN CHAS	Pacific Telephone
1940	HODGES NELSON A	Los Angeles Directory Co.

5250 IRVINE AVE

Year	Uses	Source
2008	LITERARY LICENSE INC	Cole Information Services
2006	SLANE Bdan	Haines Company, Inc.
2001	STUBENAUS Alison	Haines & Company, Inc.
1991	Roylance Thos S	Pacific Bell
1985	Roylance Z P Cty	Pacific Bell
	Roylance Thos S	Pacific Bell
1980	B P A WINDOW CLEANING	Pacific Telephone
1962	LAHN JOHN L	Pacific Telephone
1950	POSTEN LOUISE FISK R	Pacific Telephone
	POSTEN LOUISE FISK R	Pacific Telephone
1940	MOONEY HOWARD (O)	Los Angeles Directory Co.

5258 IRVINE AVE

Year	Uses	Source
1980	GRANSHAW DALE	Pacific Telephone
	KONTOS CHRIS	Pacific Telephone
1975	Kontos Chris	Pacific Telephone
	Granshaw Dale	Pacific Telephone
1970	GRANSHAW DALE	Pacific Telephone
	KONTOS CHRIS	Pacific Telephone
	KONTOS CHRIS	Pacific Telephone
	GRANSHAW DALE	Pacific Telephone
1962	GRIFFIN P R MRS	Pacific Telephone
1956	GRIFFIN P R MRS	Pacific Telephone
1950	GRIFFIN P R MRS R	Pacific Telephone
	GRIFFIN P R MRS R	Pacific Telephone
1940	GRIFFIN PATTI MRS (O)	Los Angeles Directory Co.

5216 1/2 IRVINE AVE

Year	Uses	Source
1962	IIDA JANE	Pacific Telephone
1956	MEAD MERCEDES	Pacific Telephone

FINDINGS

5224 1/2 IRVINE AVE

Year	*Uses*	*Source*
1950	HARTLEY DORIS R	Pacific Telephone
	HARTLEY DORIS R	Pacific Telephone

5228 1/2 IRVINE AVE

Year	*Uses*	*Source*
1962	RUTLEDGE BESS L	Pacific Telephone

5228 1/4 IRVINE AVE

Year	*Uses*	*Source*
1950	MCNULTY MONTANA R	Pacific Telephone
	MCNULTY MONTANA R	Pacific Telephone

MAGNOLIA

11622 MAGNOLIA

Year	*Uses*	*Source*
1971	Schellhardt Marcell T	Pacific Telephone

11627 MAGNOLIA

Year	*Uses*	*Source*
1935	WILSON EMMA A R	Los Angeles Directory Co.

11685 MAGNOLIA

Year	*Uses*	*Source*
1971	Mack Bill & Associates	Pacific Telephone
	Spero Simon	Pacific Telephone

MAGNOLIA AVE

11600 MAGNOLIA AVE

Year	*Uses*	*Source*
1970	OAKWOOD SECONDARY SCHOOL	Pacific Telephone
	OAKWOOD SECONDARY SCHOOL	Pacific Telephone

11618 MAGNOLIA AVE

Year	*Uses*	*Source*
1962	GUTTERSON EDITH	Pacific Telephone

FINDINGS

11622 MAGNOLIA AVE

Year	Uses	Source
1967	Schellhardt Marcell T	Pacific Telephone
1962	Schellhardt Marcell T	Pacific Telephone

11656 MAGNOLIA AVE

Year	Uses	Source
1950	BLAIR DONNA R	Pacific Telephone
	BLAIR DONNA R	Pacific Telephone

11663 MAGNOLIA AVE

Year	Uses	Source
1970	BROWN NAOMI M	Pacific Telephone
	BROWN NAOMI M	Pacific Telephone

11666 MAGNOLIA AVE

Year	Uses	Source
1970	WASYLYN NESTOR	Pacific Telephone
	WASYLYN NESTOR	Pacific Telephone

11670 MAGNOLIA AVE

Year	Uses	Source
1962	RAYMOND P A	Pacific Telephone

11685 MAGNOLIA AVE

Year	Uses	Source
1967	Spero Simon	Pacific Telephone
	Automated Business Expeditors	Pacific Telephone
	Mack Bill & Associates	Pacific Telephone

11699 MAGNOLIA AVE

Year	Uses	Source
1970	HARRY S TEXACO SERVICE STATION	Pacific Telephone
	HARRY S TEXACO SERVICE STATION	Pacific Telephone

11716 MAGNOLIA AVE

Year	Uses	Source
1937	Schrandt Bertha tel opr	Los Angeles Directory Co.

11722 MAGNOLIA AVE

Year	Uses	Source
1956	LIEBMAN JOS	Pacific Telephone

FINDINGS

11738 MAGNOLIA AVE

Year	Uses	Source
1962	WHITTINGTON DOROTHY M MRS	Pacific Telephone

11611 1/2 MAGNOLIA AVE

Year	Uses	Source
1962	WIJLING CHRISTIAN	Pacific Telephone

11656 1/2 MAGNOLIA AVE

Year	Uses	Source
1970	MERCER M LEE NORTH HOLLYWOOD	Pacific Telephone
	MERCER M LEE NORTH HOLLYWOOD	Pacific Telephone
1956	HUNTSMAN H L	Pacific Telephone

11657 1/2 MAGNOLIA AVE

Year	Uses	Source
1970	CULLUM D	Pacific Telephone
	CULLUM D	Pacific Telephone

11669 1/2 MAGNOLIA AVE

Year	Uses	Source
1956	BUTLER MAE K	Pacific Telephone

MAGNOLIA BLVD

11600 MAGNOLIA BLVD

Year	Uses	Source
2001	OAKWOOD SECONDARY SCHOOL	Haines & Company, Inc.

11605 MAGNOLIA BLVD

Year	Uses	Source
2001	ST DAVIDS EPSCPL CH	Haines & Company, Inc.
	ST DAVIDS EPSCPL CH	Haines & Company, Inc.
	EPISCOPAL CHURCH	Haines & Company, Inc.

11612 MAGNOLIA BLVD

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.

11616 MAGNOLIA BLVD

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.

FINDINGS

11618 MAGNOLIA BLVD

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.

11635 MAGNOLIA BLVD

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2001	ESTRADA Raul	Haines & Company, Inc.
1991	Reinhardt E	Pacific Bell

11637 MAGNOLIA BLVD

Year	Uses	Source
1980	REINHARDT VICTOR MICHAEL	Pacific Telephone
	FARIAS CECILE M	Pacific Telephone

11640 MAGNOLIA BLVD

Year	Uses	Source
1956	HALL CLIFFORD JR	Pacific Telephone

11641 MAGNOLIA BLVD

Year	Uses	Source
2006	THOMPSON Benjamin	Haines Company, Inc.
1985	Ryan John A	Pacific Bell
1980	RYAN JOHN A	Pacific Telephone

11643 MAGNOLIA BLVD

Year	Uses	Source
2006	BOOTH Robert	Haines Company, Inc.
2001	BROWN David	Haines & Company, Inc.
1985	Gross Jonathan	Pacific Bell
1980	CRANE DON	Pacific Telephone

11644 MAGNOLIA BLVD

Year	Uses	Source
2006	GOREN Jerry	Haines Company, Inc.
2001	YUGE Dale	Haines & Company, Inc.
	SANBORN G	Haines & Company, Inc.
1991	Sanborn G	Pacific Bell
1985	Bowler E M	Pacific Bell
1980	BOWLER E M	Pacific Telephone

FINDINGS

11645 MAGNOLIA BLVD

Year	Uses	Source
1985	Me Alear Mike Ivan	Pacific Bell
1975	Drooz D	Pacific Telephone

11647 MAGNOLIA BLVD

Year	Uses	Source
1980	AUSTIN CHEN HUANG	Pacific Telephone
	HITCHCOCK ROBT & ARDYNE	Pacific Telephone

11650 MAGNOLIA BLVD

Year	Uses	Source
2006	a TYLERAndrew	Haines Company, Inc.
2001	JONES Paul A	Haines & Company, Inc.
	LANDAU Kenneth	Haines & Company, Inc.
1980	MALM PETER	Pacific Telephone

11651 MAGNOLIA BLVD

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.
1995	White Roger D	Pacific Bell

11652 MAGNOLIA BLVD

Year	Uses	Source
2001	VASILY Marie	Haines & Company, Inc.
1995	Sheffield L	Pacific Bell
1929	SPENCER Wm linoleum lyr r	Los Angeles Directory Co.

11653 MAGNOLIA BLVD

Year	Uses	Source
2006	BUCKLEYJohn	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1985	Kakimi Saeed	Pacific Bell

11654 MAGNOLIA BLVD

Year	Uses	Source
2006	CARDAMONE	Haines Company, Inc.
	Christopher	Haines Company, Inc.
2001	DIAZ Sandra	Haines & Company, Inc.
1985	Hogan J A	Pacific Bell
1980	HOGAN J A	Pacific Telephone

FINDINGS

Year	Uses	Source
1935	SCHONEMANN FRED R	Los Angeles Directory Co.
1930	Mc Cabe H L	Los Angeles Directory Co.

11655 MAGNOLIA BLVD

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.
1980	SEYFRIED STEPHEN LYNN	Pacific Telephone
1975	Buzzell A B	Pacific Telephone

11656 MAGNOLIA BLVD

Year	Uses	Source
1985	Schlesinger Michael A	Pacific Bell

11657 MAGNOLIA BLVD

Year	Uses	Source
1985	Clark N	Pacific Bell
1975	Johnston Fred H	Pacific Telephone
	Henry W D	Pacific Telephone

11658 MAGNOLIA BLVD

Year	Uses	Source
2006	NG Mandy	Haines Company, Inc.
2001	FASTEAU Charles	Haines & Company, Inc.
	PRICE P	Haines & Company, Inc.
1991	Sorensen Christopher	Pacific Bell
1985	Todd David W	Pacific Bell
	Kent John J	Pacific Bell
	Cook Bettye J	Pacific Bell
	Cook Betty R	Pacific Bell
1975	Cook Betty R	Pacific Telephone

11660 MAGNOLIA BLVD

Year	Uses	Source
2006	o WHITENACK Pau	Haines Company, Inc.
	o WHITENACK Pau	Haines Company, Inc.
2001	OTEY A C	Haines & Company, Inc.
1975	Hallowell Darrell	Pacific Telephone

FINDINGS

11661 MAGNOLIA BLVD

Year	Uses	Source
2006	CLARK Madie	Haines Company, Inc.
1980	BULLOCH LE PRELE	Pacific Telephone

11663 MAGNOLIA BLVD

Year	Uses	Source
2006	KLEIN Eric M	Haines Company, Inc.

11666 MAGNOLIA BLVD

Year	Uses	Source
2008	YOKO SAGORSKY PHOTOGRAPHY	Cole Information Services
2006	ALVAREZ Elllsa	Haines Company, Inc.
	APICELLA John	Haines Company, Inc.
	BROWN Jenn Ifer	Haines Company, Inc.
2001	APARTMENTS	Haines & Company, Inc.
	APICELLA John	Haines & Company, Inc.
	DEUSCHLE Matthew	Haines & Company, Inc.
	GERISH D	Haines & Company, Inc.
	LOCKIE Teri	Haines & Company, Inc.
	RODRIGUEZ Enrique	Haines & Company, Inc.
1995	Stukes Pat	Pacific Bell
1985	Miller C	Pacific Bell
	Wilbar Genevieve	Pacific Bell
	Wilber C	Pacific Bell
	Wilber C	Pacific Bell
1980	STEEN NANCY L	Pacific Telephone
	WILBAR GENEVIEVE	Pacific Telephone
	KIM CHANGWOO	Pacific Telephone
	O MALLEY THOM	Pacific Telephone
	HERNANDEZ FRANK C	Pacific Telephone
1975	Bretney John	Pacific Telephone

11667 MAGNOLIA BLVD

Year	Uses	Source
2001	GARLEY William	Haines & Company, Inc.
1985	Larsen Peter	Pacific Bell
1980	LARSEN PETER	Pacific Telephone

FINDINGS

11669 MAGNOLIA BLVD

Year	Uses	Source
2001	BURGOYNE Rodney	Haines & Company, Inc.
1995	Strom Bonde	Pacific Bell
1985	Strom Sonde	Pacific Bell
	Farris W A Jr	Pacific Bell
1980	FARRIS W A JR	Pacific Telephone
1975	Miller R A	Pacific Telephone

11670 MAGNOLIA BLVD

Year	Uses	Source
1980	NOTTLE CY MRS	Pacific Telephone

11671 MAGNOLIA BLVD

Year	Uses	Source
2006	WHITLEYGII	Haines Company, Inc.
1985	Youngblood D	Pacific Bell
1980	YOUNGBLOOD DONALD A	Pacific Telephone

11672 MAGNOLIA BLVD

Year	Uses	Source
2006	TEJEDA Ryanne	Haines Company, Inc.
	BRUNOCia	Haines Company, Inc.
	BYERST	Haines Company, Inc.
	MAYORGA Eduardo	Haines Company, Inc.
2001	GOODWIN D M	Haines & Company, Inc.
	VALADEZ Edward	Haines & Company, Inc.
1995	Volkovskis V	Pacific Bell
1991	Tanner Geo H	Pacific Bell
	Doctor Bart	Pacific Bell
	Doctor Bart	Pacific Bell
	Docter VM	Pacific Bell
1985	Tanner Geo H	Pacific Bell
1980	TANNER GEO H	Pacific Telephone
	PARKHOUSE HERBERT W	Pacific Telephone
	KRAINES CARL	Pacific Telephone
	DOCTER V M	Pacific Telephone

11673 MAGNOLIA BLVD

Year	Uses	Source
2006	SAFTY Donlle	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2006	SAFTr YMarwan	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1995	r Singh Daejeet	Pacific Bell
	Singh BRGDDS	Pacific Bell
	I Singh Daejeet	Pacific Bell
	Singh BRGDDS	Pacific Bell
1991	Simpson Robert	Pacific Bell
1980	ADAMS ROBIN	Pacific Telephone

11675 MAGNOLIA BLVD

Year	Uses	Source
2001	GARLEY William	Haines & Company, Inc.
	HERZOG Cheryl T	Haines & Company, Inc.
1995	Pelaez F J	Pacific Bell
1980	LINDSTROM BESS T	Pacific Telephone

11677 MAGNOLIA BLVD

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.
1991	Fritts Theresia	Pacific Bell
1985	Banks Kenneth C Jr	Pacific Bell

11678 MAGNOLIA BLVD

Year	Uses	Source
2006	IBARRAJean	Haines Company, Inc.
	BERGMAN Marc	Haines Company, Inc.
2001	NOTTLE Thomas	Haines & Company, Inc.
	IBARRA Jean	Haines & Company, Inc.
	RATCLIFF D	Haines & Company, Inc.
	BERGMAN Petite	Haines & Company, Inc.
	BERGMAN Marc	Haines & Company, Inc.
1995	Ratcliff D	Pacific Bell
	Nottle Cy Mrs	Pacific Bell
	Bergman Marc & Petite	Pacific Bell
1991	Nottle Cy Mrs	Pacific Bell
	Ibarra Jean	Pacific Bell
	Bergman Mary Ann	Pacific Bell
	Bergman Marlene Firesign Designs	Pacific Bell
	Bergman Marc & Petite	Pacific Bell

Year	Uses	Source
1985	Ratcliff D	Pacific Bell
	i Uchstein Michael S	Pacific Bell
	Uchstein J	Pacific Bell
	Ibarra Jean	Pacific Bell
	Bergman Marc & Petite	Pacific Bell
1980	RATCLIFF D	Pacific Telephone
	IBARRA JEAN	Pacific Telephone
	DELAGUARIGUE ALEX	Pacific Telephone
1975	Reiss Richard A	Pacific Telephone

11685 MAGNOLIA BLVD

Year	Uses	Source
2013	BIG TIME BURGERS	Cole Information Services
	KOFMAN GREGORY DC	Cole Information Services
	ELLEN LAZARES L AC	Cole Information Services
2008	VALLEY VILLAGE CHIROPRACTIC	Cole Information Services
	NH GAMING LOUNGE	Cole Information Services
	FARRELL ENZIA SALON	Cole Information Services
	BIG TIME BURGERS	Cole Information Services
	KOFMAN GREGORY DC	Cole Information Services
2006	BIG TIME BURGERS	Haines Company, Inc.
2001	BIG TIME BURGERS	Haines & Company, Inc.
	EAGLE CONSTRUCTION	Haines & Company, Inc.
	KOFMAN GREGORY DC	Haines & Company, Inc.
1991	Howard Industries	Pacific Bell
	Howard ira G	Pacific Bell
	Howard Irene A	Pacific Bell
	Howard J	Pacific Bell
	Howard J	Pacific Bell
	Howard J	Pacific Bell
	Howard J	Pacific Bell
	Pizza Yota	Pacific Bell
1986	AACCO GAURD & PETROL SERVICE-DIVISON OF ASCCO CORP NH	Pacific Bell
	AACCO SECURITY NH	Pacific Bell
1985	AACCO Guard & Patrol Service Division Of Aacco Corp	Pacific Bell
	AACCO Security	Pacific Bell
	Pizza Yola	Pacific Bell
	Richmond Bill	Pacific Bell

FINDINGS

Year	Uses	Source
1980	HASTY C	Pacific Telephone
	MACK BILL & ASSOCIATES	Pacific Telephone
	MACK BOBBIE CPA	Pacific Telephone
	SILBERSTON ABRAHAM	Pacific Telephone
	SPERO SIMON	Pacific Telephone
1976	Mack Bill & Associates	Pacific Telephone
	Spero Simon	Pacific Telephone

11688 MAGNOLIA BLVD

Year	Uses	Source
2013	WINS THAI CUISINE	Cole Information Services
2008	WINS THAI CUISINE	Cole Information Services
2006	WINS	Haines Company, Inc.
2001	OKUYAMA Muneaki	Haines & Company, Inc.
	BOONLERD BBQ THAI CHINESE	Haines & Company, Inc.
1995	Lucky Panda	Pacific Bell
1991	Grber B	Pacific Bell
	Grubbys restrt	Pacific Bell
	Gruber Bert F	Pacific Bell
	Gruiber Charles A	Pacific Bell
	Gruber B	Pacific Bell
	Gruber Barry& Batsheva	Pacific Bell
	Gruber Charles	Pacific Bell
	Gruber Construction	Pacific Bell
1985	Densho Dho U S A Inc	Pacific Bell
1980	CAFE DE BON APPETIT	Pacific Telephone
	BON APPETIT CAFE DE	Pacific Telephone
1962	TOP NOTCH CAFE	Pacific Telephone
1956	TOP NOTCH CAFE	Pacific Telephone
1950	TOP NOTCH CAFE	Pacific Telephone
	TOP NOTCH CAFE	Pacific Telephone

11694 MAGNOLIA BLVD

Year	Uses	Source
2013	TACO BELL	Cole Information Services
2001	TACO BELL	Haines & Company, Inc.
1985	North Hollywood	Pacific Bell
1980	TACO BELL NORTH HOLLYWOOD	Pacific Telephone

FINDINGS

11699 MAGNOLIA BLVD

Year	Uses	Source
2013	YUM YUM DONUTS	Cole Information Services
2008	YUM YUM DONUTS FRANCHISE 25D	Cole Information Services
2006	YUMYUMDONUTS	Haines Company, Inc.
2001	YUM YUM DONUTS	Haines & Company, Inc.
1991	North Hilsywood	Pacific Bell
1985	North Hollywood	Pacific Bell
1980	YUM YUM DONUT SHOPS INC	Pacific Telephone

11700 MAGNOLIA BLVD

Year	Uses	Source
2013	S & J COMPLETE AUTO REPAIR	Cole Information Services
2008	COMPLETE AUTO REPAIR CENTER	Cole Information Services
	S & JS ALTERNATORS & STARTERS	Cole Information Services
2006	STARTERS	Haines Company, Inc.
	SANDJS	Haines Company, Inc.
	ALTERNATORS	Haines Company, Inc.
	S&JS	Haines Company, Inc.
	ALTERNATORS	Haines Company, Inc.
1991	G &A Texaco	Pacific Bell
	Shared Cars Inc	Pacific Bell
1980	B & K SERVICE	Pacific Telephone

11714 MAGNOLIA BLVD

Year	Uses	Source
2001	DISRI Thawee	Haines & Company, Inc.

11720 MAGNOLIA BLVD

Year	Uses	Source
2006	PEVLER Randy	Haines Company, Inc.
2001	COGNATA Roger	Haines & Company, Inc.
	PEVLER Randy	Haines & Company, Inc.
1991	Pevler Randy	Pacific Bell
1980	KOPPEL CHRISTOPHER T	Pacific Telephone

11722 MAGNOLIA BLVD

Year	Uses	Source
2006	COREAS Jose	Haines Company, Inc.
	RAMIREZ Emesto	Haines Company, Inc.
2001	RAMIREZ Ernesto	Haines & Company, Inc.

Year	Uses	Source
1995	Ramirez Ernesto	Pacific Bell
1985	Scammon Cheryl	Pacific Bell
1980	O MARA E A	Pacific Telephone

11724 MAGNOLIA BLVD

Year	Uses	Source
2006	OGUSCHEWITZM	Haines Company, Inc.
	MARONEYKarmmy	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1991	Raphael Paulo Trucking	Pacific Bell
1980	OCONNOR MICHAEL J	Pacific Telephone

11726 MAGNOLIA BLVD

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1991	Barker Richard	Pacific Bell
1985	Barker Richard	Pacific Bell
1980	BARKER RICHARD	Pacific Telephone

11730 MAGNOLIA BLVD

Year	Uses	Source
2006	KULICK Raymond	Haines Company, Inc.
2001	WENNER Sam	Haines & Company, Inc.
1980	SELEMIDIS C	Pacific Telephone

11732 MAGNOLIA BLVD

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1985	Ortegon Elizabeth	Pacific Bell
1980	ORTEGON ELIZABETH	Pacific Telephone
	NEVES C	Pacific Telephone

11738 MAGNOLIA BLVD

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2001	MAIN Kevin	Haines & Company, Inc.
	GLEASON Shaun	Haines & Company, Inc.
1985	Cohan Kimmberly	Pacific Bell
	Mireles Miguel A	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Neves C	Pacific Bell
1980	LADELFA PHIL	Pacific Telephone
1975	Genevrino Geo	Pacific Telephone
1950	DUNAWAY VIRGINIA WICKS R	Pacific Telephone
	DUNAWAY VIRGINIA WICKS R	Pacific Telephone

11742 MAGNOLIA BLVD

Year	Uses	Source
2006	o MORVAYV	Haines Company, Inc.
2001	MORVAY V	Haines & Company, Inc.
1991	Wheatley Carl	Pacific Bell

11744 MAGNOLIA BLVD

Year	Uses	Source
2006	SHARP Noelle	Haines Company, Inc.
	BEARD P	Haines Company, Inc.
	ALLEN Chas V	Haines Company, Inc.
2001	ALLEN Chas V	Haines & Company, Inc.
	BEARD P	Haines & Company, Inc.
1985	Yamashita Ray	Pacific Bell
	Shimazu G	Pacific Bell
	Allen Chas V	Pacific Bell
	Allen Cheryl L	Pacific Bell
1980	YAMASHITA RAY	Pacific Telephone

11746 MAGNOLIA BLVD

Year	Uses	Source
2008	BANTER LUBOOKS	Cole Information Services
2001	NADER Sherri	Haines & Company, Inc.
1940	DEVENPORT LILLIAN M MRS MUSIC TCHR	Los Angeles Directory Co.

11748 MAGNOLIA BLVD

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.
1980	LANGWORTHY K A	Pacific Telephone
1975	DAmico R E	Pacific Telephone

FINDINGS

11750 MAGNOLIA BLVD

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.

11752 MAGNOLIA BLVD

Year	Uses	Source
2001	LEMMO Joan	Haines & Company, Inc.
1985	Lemmo Joan	Pacific Bell
1980	LEMMO JOAN	Pacific Telephone
1940	PLASTER HENRY	Los Angeles Directory Co.

11754 MAGNOLIA BLVD

Year	Uses	Source
2001	LEMMO Joan	Haines & Company, Inc.
1940	GORDON MEYER (O)	Los Angeles Directory Co.

11756 MAGNOLIA BLVD

Year	Uses	Source
2001	XXXX	Haines & Company, Inc.
1980	MANNING M	Pacific Telephone

11758 MAGNOLIA BLVD

Year	Uses	Source
2006	NEGRONTod	Haines Company, Inc.
2001	LEMMO Irene	Haines & Company, Inc.
	NEGRON Tod	Haines & Company, Inc.
1985	Scantland J R	Pacific Bell
1980	SCANTLAND J R	Pacific Telephone
1940	YOUNG MAURICE L PHYS	Los Angeles Directory Co.

11762 MAGNOLIA BLVD

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2001	MARTINEZ Danae	Haines & Company, Inc.
1980	ARMSTRONG HOWARD E	Pacific Telephone

11635 1/2 MAGNOLIA BLVD

Year	Uses	Source
1980	REYES ALBERTO J NORTH HOLLYWOOD	Pacific Telephone

FINDINGS

11641 1/2 MAGNOLIA BLVD

Year	Uses	Source
1980	IVERSON TISH	Pacific Telephone

11651 1/2 MAGNOLIA BLVD

Year	Uses	Source
1950	BARTIMOCCIA MARGARET R	Pacific Telephone
	BARTIMOCCIA MARGARET R	Pacific Telephone

11656 1/2 MAGNOLIA BLVD

Year	Uses	Source
1980	HAMILTON RONALD L	Pacific Telephone

11658 1/2 MAGNOLIA BLVD

Year	Uses	Source
1980	COOK BETTY R NORTH HOLLYWOOD	Pacific Telephone

11658 1/4 MAGNOLIA BLVD

Year	Uses	Source
1980	DORF LEE	Pacific Telephone

11660 1/4 MAGNOLIA BLVD

Year	Uses	Source
1980	MACKEY DONALD R	Pacific Telephone

11661 1/2 MAGNOLIA BLVD

Year	Uses	Source
1980	BIONDI C	Pacific Telephone

11667 1/2 MAGNOLIA BLVD

Year	Uses	Source
1980	GUNDERSON MILDRED	Pacific Telephone

11669 1/2 MAGNOLIA BLVD

Year	Uses	Source
1980	STROM BONDE	Pacific Telephone

11726 1/2 MAGNOLIA BLVD

Year	Uses	Source
1980	LLOYD VAL	Pacific Telephone

11730 1/2 MAGNOLIA BLVD

Year	*Uses*	*Source*
1980	UNDERWOOD DONALD J	Pacific Telephone

11732 1/2 MAGNOLIA BLVD

Year	*Uses*	*Source*
1980	WENNER SAM	Pacific Telephone

11744 1/2 MAGNOLIA BLVD

Year	*Uses*	*Source*
1980	SHIMAZU G	Pacific Telephone
	ALLEN CHAS V	Pacific Telephone

MAGNOLIA CIR

11615 MAGNOLIA CIR

Year	*Uses*	*Source*
1995	Farrell Hair Replacement	Pacific Bell

11732 MAGNOLIA CIR

Year	*Uses*	*Source*
1991	Wenner Sam	Pacific Bell

MAGNOLIA DR

11600 MAGNOLIA DR

Year	*Uses*	*Source*
1985	OAKWOOD SCHOOL	Pacific Bell
1980	Upper School	Pacific Telephone

MAGNOLIA LN

11685 MAGNOLIA LN

Year	*Uses*	*Source*
1995	Goodfella Pizza	Pacific Bell

MAGNOLIA PL

11672 MAGNOLIA PL

Year	*Uses*	*Source*
1985	Docter V M	Pacific Bell

MAGNOLIA TER

11724 MAGNOLIA TER

Year	Uses	Source
1966	JOHNSON DONALD F EL MONTE	Pacific Telephone

11734 MAGNOLIA TER

Year	Uses	Source
1985	PUENTES JOSE RUBEN	Pacific Bell

MAGNOLIA TRL

11605 MAGNOLIA TRL

Year	Uses	Source
1970	ST DAVID S EPISCOPAL CHURCH	Pacific Telephone
	ST DAVID S EPISCOPAL CHURCH	Pacific Telephone
	EPISCOPAL CHURCHES	Pacific Telephone
	EPISCOPAL CHURCHES	Pacific Telephone

11606 MAGNOLIA TRL

Year	Uses	Source
1962	BOYD ED	Pacific Telephone
1956	BOYD ED	Pacific Telephone

11608 MAGNOLIA TRL

Year	Uses	Source
1962	BROWN GEORGETTE	Pacific Telephone
1956	THOMPSON MARY A	Pacific Telephone

11610 MAGNOLIA TRL

Year	Uses	Source
1962	STEINFORD CARL M NORTH HOLLYWOOD	Pacific Telephone
1956	DAVIS RUTH MRS	Pacific Telephone

11611 MAGNOLIA TRL

Year	Uses	Source
1956	KENROY MARION M	Pacific Telephone
1950	WHITE FREDERICK M R	Pacific Telephone
	WHITE FREDERICK M R	Pacific Telephone

FINDINGS

11612 MAGNOLIA TRL

Year	Uses	Source
1962	PHILIPS MAUDE B	Pacific Telephone
1956	PHILIPS MAUDE B	Pacific Telephone

11613 MAGNOLIA TRL

Year	Uses	Source
1956	WEITZ GEO J	Pacific Telephone

11614 MAGNOLIA TRL

Year	Uses	Source
1970	HEER RUTH	Pacific Telephone
	HEER RUTH	Pacific Telephone
1962	HEER RUTH	Pacific Telephone
1956	HEER RUTH	Pacific Telephone
1950	SCHELLHARDT M G R	Pacific Telephone
	SCHELLHARDT M G R	Pacific Telephone

11615 MAGNOLIA TRL

Year	Uses	Source
1962	SPENCER STEPHANIE	Pacific Telephone
	SPENCER STEVEN	Pacific Telephone

11616 MAGNOLIA TRL

Year	Uses	Source
1970	STUTE MARION L	Pacific Telephone
	STUTE MARION L	Pacific Telephone
1962	STUTE MARION L	Pacific Telephone
1956	STUTE MARION L	Pacific Telephone
1950	THURMOND DARLINE M R	Pacific Telephone
	THURMOND DARLINE M R	Pacific Telephone

11617 MAGNOLIA TRL

Year	Uses	Source
1956	TAGG WM	Pacific Telephone

11618 MAGNOLIA TRL

Year	Uses	Source
1956	DAVI VINCENT JR	Pacific Telephone
1950	WILLIAMS HARRY R	Pacific Telephone
	WILLIAMS HARRY R	Pacific Telephone

FINDINGS

11620 MAGNOLIA TRL

Year	Uses	Source
1970	SPIES MYRTLE MRS	Pacific Telephone
	SPIES MYRTLE MRS	Pacific Telephone
1962	SPIES MYRTLE MRS	Pacific Telephone
1950	FINCHER R F R	Pacific Telephone
	FINCHER R F R	Pacific Telephone

11622 MAGNOLIA TRL

Year	Uses	Source
1970	SCHELLHARDT MARCELL T	Pacific Telephone
	SCHELLHARDT MARCELL T	Pacific Telephone
1962	SCHELLHARDT MARCELL T	Pacific Telephone
1956	SCHELLHARDT MARCELL T	Pacific Telephone

11627 MAGNOLIA TRL

Year	Uses	Source
1962	BRAUER RICHARD J	Pacific Telephone
1956	MOORE HOMER D	Pacific Telephone

11635 MAGNOLIA TRL

Year	Uses	Source
1970	ORTEGA ROGER	Pacific Telephone
	ORTEGA ROGER	Pacific Telephone
1962	MCCOLLOUGH ELLSIE	Pacific Telephone
1956	MCCOLLOUGH ELISE	Pacific Telephone

11637 MAGNOLIA TRL

Year	Uses	Source
1962	CASSIDY DENNISE F	Pacific Telephone
1956	BARTUSCH HAROLD	Pacific Telephone
1950	BULKLEY CHAS H R	Pacific Telephone
	BULKLEY CHAS H R	Pacific Telephone

11640 MAGNOLIA TRL

Year	Uses	Source
1962	SOLOMON WM	Pacific Telephone
1950	KLEIN MANNIE R	Pacific Telephone
	KLEIN MANNIE R	Pacific Telephone

FINDINGS

11641 MAGNOLIA TRL

Year	Uses	Source
1962	HINES W H	Pacific Telephone
1950	POPOV V R	Pacific Telephone
	POPOV V R	Pacific Telephone

11643 MAGNOLIA TRL

Year	Uses	Source
1970	SEYMOUR CECIL L	Pacific Telephone
	SEYMOUR CECIL L	Pacific Telephone
1962	LE FRANCOIS B	Pacific Telephone
1956	LE FRANCOIS B	Pacific Telephone
1950	PATTERSON A M R	Pacific Telephone
	PATTERSON A M R	Pacific Telephone

11644 MAGNOLIA TRL

Year	Uses	Source
1970	BOWLER WALTER MRS	Pacific Telephone
	BOWLER WALTER MRS	Pacific Telephone
1962	BOWLER WALTER MRS	Pacific Telephone
1956	BOWLER WALTER MRS	Pacific Telephone
1950	BOWLER WALTER R	Pacific Telephone
	BOWLER WALTER R	Pacific Telephone

11645 MAGNOLIA TRL

Year	Uses	Source
1970	CLARKE L L	Pacific Telephone
	CLARKE L L	Pacific Telephone
1962	SNODDY MABEL MRS	Pacific Telephone
1950	CARROLL WM R	Pacific Telephone
	CARROLL WM R	Pacific Telephone

11647 MAGNOLIA TRL

Year	Uses	Source
1970	WEISSMAN MAMIE MRS	Pacific Telephone
	WEISSMAN MAMIE MRS	Pacific Telephone
1962	WEISSMAN MAMIE MRS	Pacific Telephone
1956	CLORETY H S MRS	Pacific Telephone
1950	DOWNEY D J R	Pacific Telephone
	DOWNEY D J R	Pacific Telephone

FINDINGS

11650 MAGNOLIA TRL

Year	Uses	Source
1970	MALM PETER	Pacific Telephone
	MALM PETER	Pacific Telephone
1962	MALM PETER	Pacific Telephone
1956	MALM PETER	Pacific Telephone
1950	MALM PETER R	Pacific Telephone
	MALM PETER R	Pacific Telephone

11651 MAGNOLIA TRL

Year	Uses	Source
1962	WALLACE JULIE J	Pacific Telephone
1956	WALLACE FRANK S	Pacific Telephone
1950	FINLEY L R MRS R	Pacific Telephone
	FINLEY L R MRS R	Pacific Telephone

11652 MAGNOLIA TRL

Year	Uses	Source
1970	HATFIELD MARY BELLE	Pacific Telephone
	HATFIELD MARY BELLE	Pacific Telephone
1962	HATFIELD MARY BELLE	Pacific Telephone
1950	HANSEN FRED W R	Pacific Telephone
	HANSEN FRED W R	Pacific Telephone

11653 MAGNOLIA TRL

Year	Uses	Source
1970	PUTNAM REGINA F	Pacific Telephone
	PUTNAM REGINA F	Pacific Telephone
1962	BARKER SOL D	Pacific Telephone
1956	CANTOR GEO	Pacific Telephone
1950	LINE EDW V R	Pacific Telephone
	LINE EDW V R	Pacific Telephone

11654 MAGNOLIA TRL

Year	Uses	Source
1962	TRENT LEE	Pacific Telephone
1956	PATTON ELSIE M	Pacific Telephone

11655 MAGNOLIA TRL

Year	Uses	Source
1950	THOMAS J E R	Pacific Telephone

Year	Uses	Source
1950	THOMAS J E R	Pacific Telephone

11656 MAGNOLIA TRL

Year	Uses	Source
1970	QUINN CATHERINE L	Pacific Telephone
	QUINN CATHERINE L	Pacific Telephone

11657 MAGNOLIA TRL

Year	Uses	Source
1956	SMITH CHARLOTTE A MRS	Pacific Telephone
1950	HOOD LOULA E R	Pacific Telephone
	HOOD LOULA E R	Pacific Telephone

11658 MAGNOLIA TRL

Year	Uses	Source
1970	RICHARDSON LLOYD L	Pacific Telephone
	RICHARDSON LLOYD L	Pacific Telephone
1962	SMITH MARK E	Pacific Telephone
1956	STEINBOCK DON	Pacific Telephone

11660 MAGNOLIA TRL

Year	Uses	Source
1970	THAVIS J M	Pacific Telephone
	THAVIS J M	Pacific Telephone
1962	PEICKIL MARY	Pacific Telephone
1950	JOHNSON ARTHUR R	Pacific Telephone
	JOHNSON ARTHUR R	Pacific Telephone

11661 MAGNOLIA TRL

Year	Uses	Source
1970	BULLOCH LA PRELE	Pacific Telephone
	BULLOCH LA PRELE	Pacific Telephone
1962	HARRIS MAURIAN R	Pacific Telephone
1956	CLIFFORD RUSSELL M	Pacific Telephone
1950	WILCOX JAS L R	Pacific Telephone
	WILCOX JAS L R	Pacific Telephone
	DENNIG FAITH L R	Pacific Telephone
	DENNIG FAITH L R	Pacific Telephone

FINDINGS

11663 MAGNOLIA TRL

Year	Uses	Source
1962	ARMSTRONG RICHARD L	Pacific Telephone
1956	DRAGER FRED W	Pacific Telephone
1950	DRAGER FRED W R	Pacific Telephone
	DRAGER FRED W R	Pacific Telephone

11666 MAGNOLIA TRL

Year	Uses	Source
1970	CHANDLER W B	Pacific Telephone
	MANCINI JOS	Pacific Telephone
	OEHLER K A	Pacific Telephone
	SALTZMAN RUTH	Pacific Telephone
	SHELTON C J	Pacific Telephone
	SORICH STEVE	Pacific Telephone
	CHANDLER W B	Pacific Telephone
	MANCINI JOS	Pacific Telephone
	OEHLER K A	Pacific Telephone
	SALTZMAN RUTH	Pacific Telephone
	SHELTON C J	Pacific Telephone
	SORICH STEVE	Pacific Telephone
1962	MYERS ELIZABETH	Pacific Telephone
	ANDERSON ROWENA M	Pacific Telephone
	CHANDLER W B	Pacific Telephone
	EHRLER MARGARETE L	Pacific Telephone
	RICHTER LEONORE	Pacific Telephone
	ROSENTHAL SIDNEY	Pacific Telephone
	SCHIFTER HOWARD	Pacific Telephone
	WAINGROW DALE	Pacific Telephone
	WAINGROW DANL	Pacific Telephone
1956	BURCE PAUL E	Pacific Telephone
	CARLSON MARGARET M	Pacific Telephone
	CARTER EUNICE MRS	Pacific Telephone
	HAMILTON ALEX R	Pacific Telephone
	LORENZEN J D	Pacific Telephone
	MIDLA JOHN W	Pacific Telephone

11667 MAGNOLIA TRL

Year	Uses	Source
1970	PECK S J	Pacific Telephone

Year	Uses	Source
1970	PECK S J	Pacific Telephone
1962	ARMSTRONG ELIZA ELLEN	Pacific Telephone
1956	MARSH WAKCLAND R	Pacific Telephone
1950	FARLEY NITA R	Pacific Telephone
	FARLEY NITA R	Pacific Telephone

11669 MAGNOLIA TRL

Year	Uses	Source
1970	BURG GAY	Pacific Telephone
	BURG GAY	Pacific Telephone
1962	BERLINER ROSE MRS	Pacific Telephone
1956	THOMPSON C G	Pacific Telephone
1950	O BRIAN IVY W R	Pacific Telephone
	O BRIAN IVY W R	Pacific Telephone

11671 MAGNOLIA TRL

Year	Uses	Source
1970	WATSON GEORGIA	Pacific Telephone
	WATSON GEORGIA	Pacific Telephone
1962	TURNER MARY	Pacific Telephone
1956	MOORIN MIKE	Pacific Telephone

11672 MAGNOLIA TRL

Year	Uses	Source
1970	BLUESTONE ROSS	Pacific Telephone
	HESSLER JACKIE	Pacific Telephone
	LORENZO ROBERT G	Pacific Telephone
	TANNER GEO H	Pacific Telephone
	YAPELLI C	Pacific Telephone
	BLUESTONE ROSS	Pacific Telephone
	HESSLER JACKIE	Pacific Telephone
	LORENZO ROBERT G	Pacific Telephone
	TANNER GEO H	Pacific Telephone
	YAPELLI C	Pacific Telephone
1962	COVINGTON ELMER MRS	Pacific Telephone
	FAGAN REBECCA T MRS	Pacific Telephone
	PEDERSON ELEANORE M	Pacific Telephone
	PEDERSON MILDRED	Pacific Telephone
	STANDRING CAROL S MRS	Pacific Telephone

Year	Uses	Source
1962	YOUNG ROBT J	Pacific Telephone
1956	GOEBEL GENEVA	Pacific Telephone
	LESTER GEO E	Pacific Telephone
	MELZER F M MRS	Pacific Telephone
	PEDERSON MILDRED	Pacific Telephone
	SREDNICK MICHAEL	Pacific Telephone
	ENCELL JOHN C	Pacific Telephone

11673 MAGNOLIA TRL

Year	Uses	Source
1970	FARRIS W A	Pacific Telephone
	FARRIS W A	Pacific Telephone
1962	HATCH ENOLA	Pacific Telephone
1956	STACK ELMER H	Pacific Telephone
1950	TUBESING BERTHA R	Pacific Telephone
	TUBESING BERTHA R	Pacific Telephone
	LARSON VICTOR E R	Pacific Telephone
	LARSON VICTOR E R	Pacific Telephone

11675 MAGNOLIA TRL

Year	Uses	Source
1970	LINDSTROM BESS T	Pacific Telephone
	LINDSTROM BESS T	Pacific Telephone
1962	LEFLER C A MRS	Pacific Telephone
1950	MORRIS CLIFFORD R	Pacific Telephone
	MORRIS CLIFFORD R	Pacific Telephone

11677 MAGNOLIA TRL

Year	Uses	Source
1956	DAVIES M H MRS	Pacific Telephone
1950	LOWE THOS J R	Pacific Telephone
	LOWE THOS J R	Pacific Telephone

11678 MAGNOLIA TRL

Year	Uses	Source
1980	BERGMAN MARC & PETITE	Pacific Telephone
1970	ROSENBERG HENRY G	Pacific Telephone
	BOWEN ARLENE	Pacific Telephone
	KEYSOR CHERYL ANN	Pacific Telephone
	NOTTKE CY MRS	Pacific Telephone

Year	Uses	Source
1970	ROSENBERG HENRY G	Pacific Telephone
	NOTTKE CY MRS	Pacific Telephone
	KEYSOR CHERYL ANN	Pacific Telephone
	BOWEN ARLENE	Pacific Telephone
1962	STERNDALE HENRY	Pacific Telephone
	LIAHJELL TORE	Pacific Telephone
	KRAUSE RAYMOND	Pacific Telephone
	KRAUSE HAROLD	Pacific Telephone
	FISHMAN JOHN	Pacific Telephone
	DAVIS JIM	Pacific Telephone
1956	WRIGHT ELIOT	Pacific Telephone
	SPAIN B E	Pacific Telephone
	ROSENTHAL BERNARD	Pacific Telephone
	OLSAN CHAS E	Pacific Telephone
	BARMAN RUTH F	Pacific Telephone
	GAMBLE TILLIE THOMPSON	Pacific Telephone
	MARCUS SAM	Pacific Telephone
	MOORE LOUIS E JR	Pacific Telephone

11685 MAGNOLIA TRL

Year	Uses	Source
1970	MACK BILL & ASSOCIATES	Pacific Telephone
	HUDSON JUDY GAIL	Pacific Telephone
	HUDSON JUDY GAIL	Pacific Telephone
	KEENE DONNA L	Pacific Telephone
	MACK BILL & ASSOCIATES	Pacific Telephone
	KEENE DONNA L	Pacific Telephone
1962	HOME IMPROVEMENT CLUB	Pacific Telephone
1956	STONE MURRAY C	Pacific Telephone

11686 MAGNOLIA TRL

Year	Uses	Source
1970	CAFE DE BONAPPETITE	Pacific Telephone
	CAFE DE BONAPPETITE	Pacific Telephone

11688 MAGNOLIA TRL

Year	Uses	Source
1970	BON APPETIT	Pacific Telephone
	BON APPETIT	Pacific Telephone

FINDINGS

11694 MAGNOLIA TRL

Year	Uses	Source
1970	JOIE TOEPFER HANCOCK SERVICE	Pacific Telephone
	TOEPFER JOIE	Pacific Telephone
	JOIE TOEPFER HANCOCK SERVICE	Pacific Telephone
	TOEPFER JOIE	Pacific Telephone
1962	CULLUM HANCOCK SERV	Pacific Telephone
1956	REAFLENG BROS SERV	Pacific Telephone
1950	SCHONEMANN SERV STN	Pacific Telephone
	SCHONEMANN SERV STN	Pacific Telephone

11699 MAGNOLIA TRL

Year	Uses	Source
1962	HOLMQUIST MILTON HUSKIES TEXACO SERV	Pacific Telephone
	HUSKIES TEXACO SERV	Pacific Telephone
	TEXACO SERV STATION DLRS	Pacific Telephone
1956	HOLMQUIST MILTON HUSKIES TEXACO SERV	Pacific Telephone
	HUSKIES TEXACO SERV	Pacific Telephone
	TEXACO SERV STATION DLRS NORTH HOLLYWOOD	Pacific Telephone
1950	HUSKIES TEXACO SERV	Pacific Telephone
	HUSKIES TEXACO SERV	Pacific Telephone

11700 MAGNOLIA TRL

Year	Uses	Source
1970	SAMMY S UNION SERVICE	Pacific Telephone
	SAMMY S UNION SERVICE	Pacific Telephone
1962	CARLSON ROBT UNION OIL DLR	Pacific Telephone
	UNION OIL DLRS SERV STNS	Pacific Telephone
1956	MC INTIRE KEITH UNION OIL DLR	Pacific Telephone
	UNION OIL DLRS SERV STNS BURBANK THRNWL 6-9170	Pacific Telephone

11714 MAGNOLIA TRL

Year	Uses	Source
1962	LEONARD S BURGERS	Pacific Telephone
1956	HAP S MALT SHOP	Pacific Telephone

FINDINGS

11720 MAGNOLIA TRL

Year	Uses	Source
1962	COHEN PEARL	Pacific Telephone
1956	GERSTEIN EVELYN	Pacific Telephone
1950	GORMAN EDNA V MRS R	Pacific Telephone
	GORMAN EDNA V MRS R	Pacific Telephone

11722 MAGNOLIA TRL

Year	Uses	Source
1962	WEINER MAUREEN	Pacific Telephone
	RASKIN F MRS	Pacific Telephone
1950	MILLER CHAS W R	Pacific Telephone
	MILLER CHAS W R	Pacific Telephone

11724 MAGNOLIA TRL

Year	Uses	Source
1962	LIEBMAN JOS	Pacific Telephone
1956	ZIMMERMAN S B	Pacific Telephone
1950	AGNEW ALBERT W R	Pacific Telephone
	AGNEW ALBERT W R	Pacific Telephone

11726 MAGNOLIA TRL

Year	Uses	Source
1970	MOLINARI ALDO	Pacific Telephone
	MOLINARI ALDO	Pacific Telephone
1962	ZIMMERMAN S B	Pacific Telephone
1956	WINELAND ROGER D	Pacific Telephone
1950	DEUTSCH MAX R	Pacific Telephone
	DEUTSCH MAX R	Pacific Telephone

11730 MAGNOLIA TRL

Year	Uses	Source
1970	HARRIS LETA B	Pacific Telephone
	HARRIS LETA B	Pacific Telephone
1962	SIEGEL MAX	Pacific Telephone
1956	SCOTT NORA B	Pacific Telephone
1950	WEAVER BARNEY R	Pacific Telephone
	WEAVER BARNEY R	Pacific Telephone

FINDINGS

11732 MAGNOLIA TRL

Year	Uses	Source
1962	BRYANT RICHARD H	Pacific Telephone
1956	UMAN SYLVIA LEE MRS	Pacific Telephone
1950	KLIPFEL A W R	Pacific Telephone
	KLIPFEL A W R	Pacific Telephone

11738 MAGNOLIA TRL

Year	Uses	Source
1970	GORDON F L	Pacific Telephone
	MICHNA CHAS	Pacific Telephone
	O NEAL JOHN MRS	Pacific Telephone
	WHITTINGTON DOROTHY M MRS	Pacific Telephone
	GORDON F L	Pacific Telephone
	MICHNA CHAS	Pacific Telephone
	O NEAL JOHN MRS	Pacific Telephone
	WHITTINGTON DOROTHY M MRS	Pacific Telephone
1962	MICHNA CHAS	Pacific Telephone
1956	SEEDS DOROTHY M	Pacific Telephone
	BAILEY GRACE M	Pacific Telephone
	KERCE CLAUDE J	Pacific Telephone
1950	BAILEY GRACE M R	Pacific Telephone
	GUNN BETTY R	Pacific Telephone
	SEEDS DOROTHY M R	Pacific Telephone
	SMITH JOHN S R	Pacific Telephone
	BAILEY GRACE M R	Pacific Telephone
	GUNN BETTY R	Pacific Telephone
	SEEDS DOROTHY M R	Pacific Telephone
	SMITH JOHN S R	Pacific Telephone

11744 MAGNOLIA TRL

Year	Uses	Source
1962	BRASSFIELD HARRY M	Pacific Telephone
1956	BRASSFIELD HARRY M	Pacific Telephone
1950	FREDERICKS LEE R	Pacific Telephone
	FREDERICKS LEE R	Pacific Telephone

11746 MAGNOLIA TRL

Year	Uses	Source
1970	CANEVARO WALTER H	Pacific Telephone

Year	Uses	Source
1970	CANEVARO WALTER H	Pacific Telephone
1956	DEUSE LORETTA	Pacific Telephone

11748 MAGNOLIA TRL

Year	Uses	Source
1956	COCKROFT MARGARET	Pacific Telephone
1950	COCKROFT MARGARET R	Pacific Telephone
	COCKROFT MARGARET R	Pacific Telephone

11750 MAGNOLIA TRL

Year	Uses	Source
1950	JESSUP PERRY A B R	Pacific Telephone
	JESSUP PERRY A B R	Pacific Telephone

11752 MAGNOLIA TRL

Year	Uses	Source
1970	SCANTLAND J R	Pacific Telephone
	SCANTLAND J R	Pacific Telephone
1962	BERNBROCK J	Pacific Telephone
1956	MISCHO LAVERNE MRS	Pacific Telephone
1950	PRATT O H MIKE R	Pacific Telephone
	PRATT O H MIKE R	Pacific Telephone

11754 MAGNOLIA TRL

Year	Uses	Source
1956	STODDARD AGNES MRS	Pacific Telephone
1950	ZOOK PAUL A R	Pacific Telephone
	ZOOK PAUL A R	Pacific Telephone

11756 MAGNOLIA TRL

Year	Uses	Source
1970	FRY KEN	Pacific Telephone
	FRY KEN	Pacific Telephone
1962	HAYASHI J JOHN	Pacific Telephone
1956	LEE HERBERT H	Pacific Telephone
1950	KUHN ALFRED J R	Pacific Telephone
	KUHN ALFRED J R	Pacific Telephone

FINDINGS

11758 MAGNOLIA TRL

Year	Uses	Source
1962	BENTON ANNA	Pacific Telephone

11760 MAGNOLIA TRL

Year	Uses	Source
1970	ANDRADE OSCAR	Pacific Telephone
	ANDRADE OSCAR	Pacific Telephone

11762 MAGNOLIA TRL

Year	Uses	Source
1970	CHAMBERLIN YVONNE C	Pacific Telephone
	CHAMBERLIN YVONNE C	Pacific Telephone
1956	DAVIS RICHARD L	Pacific Telephone
1950	COUNTRYMAN W F JR R	Pacific Telephone
	COUNTRYMAN W F JR R	Pacific Telephone

11801 MAGNOLIA TRL

Year	Uses	Source
1956	WIDNEY JOS POMEROY HIGH SCHOOL VALLEY BRANCH	Pacific Telephone

11610 1/2 MAGNOLIA TRL

Year	Uses	Source
1970	PIGGOTT J STEPHEN	Pacific Telephone
	PIGGOTT J STEPHEN	Pacific Telephone
1962	BRUNDAGE GLADYS M	Pacific Telephone
1956	BRUNDAGE GLADYS M	Pacific Telephone

11611 1/2 MAGNOLIA TRL

Year	Uses	Source
1956	BARROWS FRANCES S	Pacific Telephone

11613 1/2 MAGNOLIA TRL

Year	Uses	Source
1962	BRISCOE LAVONA G	Pacific Telephone
1950	SHAW ALVIN M R	Pacific Telephone
	SHAW ALVIN M R	Pacific Telephone

11615 1/2 MAGNOLIA TRL

Year	Uses	Source
1962	METZLER JOHN A REV	Pacific Telephone

Year	Uses	Source
1956	PLANCK JACK R	Pacific Telephone
1950	GRAHAM ORVILLE R R	Pacific Telephone
	GRAHAM ORVILLE R R	Pacific Telephone

11617 1/2 MAGNOLIA TRL

Year	Uses	Source
1962	MANSFIELD JOE E	Pacific Telephone
1956	MANSFIELD JOE E	Pacific Telephone

11619 1/2 MAGNOLIA TRL

Year	Uses	Source
1962	CLORETY HARRIETT S MRS	Pacific Telephone
1956	TAYLOR WM CDR	Pacific Telephone
1950	SULLENGER JAS E R	Pacific Telephone
	SULLENGER JAS E R	Pacific Telephone

11635 1/2 MAGNOLIA TRL

Year	Uses	Source
1962	PORTWOOD NELLIE J	Pacific Telephone
1956	BRIDWELL W E R	Pacific Telephone
1950	MCGOVERN JOHN J R	Pacific Telephone
	MCGOVERN JOHN J R	Pacific Telephone

11637 1/2 MAGNOLIA TRL

Year	Uses	Source
1962	HEWITT BEN K	Pacific Telephone
1956	REEVES GLADYS	Pacific Telephone
1950	REEVES JOHN H R	Pacific Telephone
	REEVES JOHN H R	Pacific Telephone

11641 1/2 MAGNOLIA TRL

Year	Uses	Source
1970	MARTIN GLENN W	Pacific Telephone
	MARTIN GLENN W	Pacific Telephone
1962	JOHNSON RAY C	Pacific Telephone
1956	ELSON CHAS W	Pacific Telephone

11643 1/2 MAGNOLIA TRL

Year	Uses	Source
1970	SPARKS BENNETT JR	Pacific Telephone

Year	Uses	Source
1970	SPARKS BENNETT JR	Pacific Telephone

11645 1/2 MAGNOLIA TRL

Year	Uses	Source
1956	DUPREE JACK E	Pacific Telephone

11647 1/2 MAGNOLIA TRL

Year	Uses	Source
1962	DUPREE JACK E	Pacific Telephone
1956	WINOKUR HARVEY	Pacific Telephone
1950	VOSBURGH EDYTHE M R	Pacific Telephone
	VOSBURGH EDYTHE M R	Pacific Telephone

11651 1/2 MAGNOLIA TRL

Year	Uses	Source
1970	SMITH CLAUDE S	Pacific Telephone
	SMITH CLAUDE S	Pacific Telephone
1962	SMITH CLAUDE S	Pacific Telephone

11653 1/2 MAGNOLIA TRL

Year	Uses	Source
1970	WERTZ HARRY W	Pacific Telephone
	WERTZ HARRY W	Pacific Telephone
1962	HICKS GORDON C	Pacific Telephone
1956	HICKS GORDON C	Pacific Telephone
1950	LIPSEY A F R	Pacific Telephone
	LIPSEY A F R	Pacific Telephone

11654 1/2 MAGNOLIA TRL

Year	Uses	Source
1950	SHERBERT ARMEN R	Pacific Telephone
	SHERBERT ARMEN R	Pacific Telephone

11656 1/2 MAGNOLIA TRL

Year	Uses	Source
1962	PARR NANCY	Pacific Telephone
	PARR JAS C	Pacific Telephone
1950	NEUBAUER MARY L R	Pacific Telephone
	NEUBAUER MARY L R	Pacific Telephone

FINDINGS

11657 1/2 MAGNOLIA TRL

Year	Uses	Source
1962	MILLS LARRY L	Pacific Telephone
1956	MULLER R L	Pacific Telephone
1950	CROUSE CLYDE E R	Pacific Telephone
	CROUSE CLYDE E R	Pacific Telephone

11658 1/2 MAGNOLIA TRL

Year	Uses	Source
1970	DICKMAN ALBERT J	Pacific Telephone
	DICKMAN ALBERT J	Pacific Telephone
1962	SMITH MARIAN LEE MRS	Pacific Telephone
1950	MACE ZERINA M R	Pacific Telephone
	MACE ZERINA M R	Pacific Telephone

11660 1/2 MAGNOLIA TRL

Year	Uses	Source
1956	PONTER GEO	Pacific Telephone

11660 1/4 MAGNOLIA TRL

Year	Uses	Source
1970	HORNE CHAS M	Pacific Telephone
	HORNE CHAS M	Pacific Telephone
1950	BURCE PAUL E R	Pacific Telephone
	BURCE PAUL E R	Pacific Telephone

11663 1/2 MAGNOLIA TRL

Year	Uses	Source
1970	HANSEN GOODWIN L	Pacific Telephone
	HANSEN GOODWIN L	Pacific Telephone
1962	HANSEN GOODWIN L	Pacific Telephone
1956	HANSEN GOODWIN L	Pacific Telephone
1950	HANSEN GOODWIN L R	Pacific Telephone
	HANSEN GOODWIN L R	Pacific Telephone

11667 1/2 MAGNOLIA TRL

Year	Uses	Source
1970	GUNDERSON MILDRED	Pacific Telephone
	GUNDERSON MILDRED	Pacific Telephone
1956	PELLE A F DR	Pacific Telephone
1950	PELLE A F DR R	Pacific Telephone

Year	Uses	Source
1950	PELLE A F DR R	Pacific Telephone

11669 1/2 MAGNOLIA TRL

Year	Uses	Source
1970	MORTON OLIVER D MRS NORTH HOLLYWOOD	Pacific Telephone
	MORTON OLIVER D MRS NORTH HOLLYWOOD	Pacific Telephone
1962	GALLIAN JULIETTE	Pacific Telephone
1956	DARWIN PAULA M	Pacific Telephone
1950	HARRISON HAROLD M R	Pacific Telephone
	HARRISON HAROLD M R	Pacific Telephone

11671 1/2 MAGNOLIA TRL

Year	Uses	Source
1970	TURNER MARY	Pacific Telephone
	TURNER MARY	Pacific Telephone
1950	MCKENZIE KENNETH E R	Pacific Telephone
	MCKENZIE KENNETH E R	Pacific Telephone

11673 1/2 MAGNOLIA TRL

Year	Uses	Source
1970	TUBESING WM	Pacific Telephone
	TUBESING WM	Pacific Telephone
1962	TUBESING BERTHA	Pacific Telephone
1956	TUBESING BERTHA	Pacific Telephone

11675 1/2 MAGNOLIA TRL

Year	Uses	Source
1962	CLIFFORD VERNA G	Pacific Telephone
1956	MORROW KENNETH J	Pacific Telephone
1950	ELLIS ALBERT O R	Pacific Telephone
	ELLIS ALBERT O R	Pacific Telephone

11677 1/2 MAGNOLIA TRL

Year	Uses	Source
1970	CORRAL I	Pacific Telephone
	CORRAL I	Pacific Telephone
1962	LAING ALICE N MRS	Pacific Telephone
1956	HADEN TOM	Pacific Telephone
1950	SCHUBERT CARL H R	Pacific Telephone

Year	Uses	Source
1950	SCHUBERT CARL H R	Pacific Telephone

11720 1/2 MAGNOLIA TRL

Year	Uses	Source
1962	SCHWARTZ ANNE	Pacific Telephone
1950	WINGET WM R	Pacific Telephone
	WINGET WM R	Pacific Telephone

11722 1/2 MAGNOLIA TRL

Year	Uses	Source
1956	BARNEY MANNY	Pacific Telephone

11724 1/2 MAGNOLIA TRL

Year	Uses	Source
1956	BREAULT EDW E	Pacific Telephone
1950	POLL HARRY F R	Pacific Telephone
	POLL HARRY F R	Pacific Telephone

11726 1/2 MAGNOLIA TRL

Year	Uses	Source
1962	WOODARD CHRISTINE W MRS	Pacific Telephone
1956	FRIEDMAN FLORENCE	Pacific Telephone
1950	COLLINS LEE R	Pacific Telephone
	COLLINS LEE R	Pacific Telephone

11730 1/2 MAGNOLIA TRL

Year	Uses	Source
1956	HALL C O	Pacific Telephone
1950	FUTTERMAN MYRON M R	Pacific Telephone
	FUTTERMAN MYRON M R	Pacific Telephone

11732 1/2 MAGNOLIA TRL

Year	Uses	Source
1970	WENNER SAM	Pacific Telephone
	WENNER SAM	Pacific Telephone
1962	LA BELLE WM J	Pacific Telephone
1956	VOSS EDNA T	Pacific Telephone
1950	DUNNER NATE R	Pacific Telephone
	DUNNER NATE R	Pacific Telephone

FINDINGS

11744 1/2 MAGNOLIA TRL

Year	Uses	Source
1962	BLOOD LYNN	Pacific Telephone
	BLOOD GLADYS M	Pacific Telephone
1956	ROBINSON JEROME W MRS	Pacific Telephone
1950	ERICKSON LOU R	Pacific Telephone
	ERICKSON LOU R	Pacific Telephone

MAGNOLIA WAY

11600 MAGNOLIA WAY

Year	Uses	Source
1975	Oakwood Secondary School	Pacific Telephone

11605 MAGNOLIA WAY

Year	Uses	Source
1975	ST DAVDIS EPISCOPAL CHURCH	Pacific Telephone
	St Davids Episcopal Church	Pacific Telephone
	Women Of St Davids	Pacific Telephone

11614 MAGNOLIA WAY

Year	Uses	Source
1975	Heer Ruth	Pacific Telephone

11620 MAGNOLIA WAY

Year	Uses	Source
1975	Spies Myrtle Mrs	Pacific Telephone

11622 MAGNOLIA WAY

Year	Uses	Source
1975	Schellhardt Marcell T	Pacific Telephone

11637 MAGNOLIA WAY

Year	Uses	Source
1975	Reinhardt Victor Michael	Pacific Telephone

11641 MAGNOLIA WAY

Year	Uses	Source
1975	Martin Glenn W	Pacific Telephone

FINDINGS

11644 MAGNOLIA WAY

Year	Uses	Source
1975	Bowler E M	Pacific Telephone

11647 MAGNOLIA WAY

Year	Uses	Source
1975	Rocco T A	Pacific Telephone
	Hitchcock Ardyne	Pacific Telephone

11650 MAGNOLIA WAY

Year	Uses	Source
1975	Malm Peter	Pacific Telephone

11651 MAGNOLIA WAY

Year	Uses	Source
1975	Brewer John	Pacific Telephone
	Howland John F	Pacific Telephone

11653 MAGNOLIA WAY

Year	Uses	Source
1975	Putnam Regina F	Pacific Telephone
	Leverhant Miriam	Pacific Telephone

11654 MAGNOLIA WAY

Year	Uses	Source
1975	Bozigar Nick	Pacific Telephone

11656 MAGNOLIA WAY

Year	Uses	Source
1975	Quinn Catherine L	Pacific Telephone
	Selken Douglas L	Pacific Telephone

11660 MAGNOLIA WAY

Year	Uses	Source
1975	Richardson Chas L	Pacific Telephone

11661 MAGNOLIA WAY

Year	Uses	Source
1975	Robb Sally	Pacific Telephone
	Bulloch La Prele	Pacific Telephone

FINDINGS

11663 MAGNOLIA WAY

Year	Uses	Source
1975	Hansen Goodwin L	Pacific Telephone
	Brown Naomi M	Pacific Telephone

11666 MAGNOLIA WAY

Year	Uses	Source
1975	Ackerman R	Pacific Telephone
	Chandler W B	Pacific Telephone
	Lin Pi Chi	Pacific Telephone
	Nodella Matthew	Pacific Telephone
	Saltzman Ruth	Pacific Telephone
	Schwartz Polly	Pacific Telephone
	Wasylyn Nestor	Pacific Telephone

11667 MAGNOLIA WAY

Year	Uses	Source
1975	Gunderson Mildred	Pacific Telephone
	Peck S J	Pacific Telephone

11669 MAGNOLIA WAY

Year	Uses	Source
1975	Farris W A	Pacific Telephone

11671 MAGNOLIA WAY

Year	Uses	Source
1975	Watson Georgia	Pacific Telephone

11672 MAGNOLIA WAY

Year	Uses	Source
1975	Docter V M	Pacific Telephone
	Tanner Geo H	Pacific Telephone
	Richardson Wm	Pacific Telephone
	Lorenzo Robert G	Pacific Telephone

11675 MAGNOLIA WAY

Year	Uses	Source
1975	Lindstrom Bess T	Pacific Telephone

11678 MAGNOLIA WAY

Year	Uses	Source
1975	Heller Stephen L	Pacific Telephone

Year	Uses	Source
1975	Gallagher Philip	Pacific Telephone
	Rosenberg Henry G	Pacific Telephone
	Nottie Cy Mrs	Pacific Telephone
	Hutcheson Geo H	Pacific Telephone

11685 MAGNOLIA WAY

Year	Uses	Source
1975	Mack Bill & Associates	Pacific Telephone
	Spero Simon	Pacific Telephone

11688 MAGNOLIA WAY

Year	Uses	Source
1975	Bon Appetit Cafe de	Pacific Telephone
	Cafe de Bon Appetit	Pacific Telephone

11694 MAGNOLIA WAY

Year	Uses	Source
1975	North Hollywood	Pacific Telephone

11700 MAGNOLIA WAY

Year	Uses	Source
1975	Harrys Union Service Station	Pacific Telephone
	HARRYS UPHOLSTERING	Pacific Telephone

11720 MAGNOLIA WAY

Year	Uses	Source
1975	Handricks Vera	Pacific Telephone
	Kaplan L	Pacific Telephone

11722 MAGNOLIA WAY

Year	Uses	Source
1975	Isackson Bernard	Pacific Telephone
	Lloyd Val	Pacific Telephone
	OMarr E A	Pacific Telephone

11726 MAGNOLIA WAY

Year	Uses	Source
1975	Childs Romadus W	Pacific Telephone

FINDINGS

11730 MAGNOLIA WAY

Year	*Uses*	*Source*
1975	Wenner Jacob	Pacific Telephone

11732 MAGNOLIA WAY

Year	*Uses*	*Source*
1975	Wenner Sam	Pacific Telephone

11738 MAGNOLIA WAY

Year	*Uses*	*Source*
1975	Riggle Frances E	Pacific Telephone
	Ladelfa Phil	Pacific Telephone

11744 MAGNOLIA WAY

Year	*Uses*	*Source*
1975	Yamashita Ray	Pacific Telephone

11752 MAGNOLIA WAY

Year	*Uses*	*Source*
1975	Scantland J R	Pacific Telephone

11756 MAGNOLIA WAY

Year	*Uses*	*Source*
1975	Fry Ken	Pacific Telephone

11760 MAGNOLIA WAY

Year	*Uses*	*Source*
1975	De Geer J	Pacific Telephone

MARGATE

11662 MARGATE

Year	*Uses*	*Source*
1935	AVONDE HENRY R	Los Angeles Directory Co.

11671 MARGATE

Year	*Uses*	*Source*
1935	HOUSTON A MRS R	Los Angeles Directory Co.

FINDINGS

MARGATE ST

11638 MARGATE ST

Year	Uses	Source
2006	DANGCIL Throas 00 a	Haines Company, Inc.
2001	DANGCIL Thomas	Haines & Company, Inc.
1975	Lewak P	Pacific Telephone
1970	KORF PATRICIA L	Pacific Telephone
	KORF PATRICIA L	Pacific Telephone
1962	WEATHERFORD HAROLD H	Pacific Telephone
1956	ZIPPERT BEN H	Pacific Telephone
1950	ALTSHULER EDW A R	Pacific Telephone
	ALTSHULER EDW A R	Pacific Telephone

11641 MARGATE ST

Year	Uses	Source
2006	GEORGIA Midael L	Haines Company, Inc.
	e WONGJudy	Haines Company, Inc.
2001	GEORGIA M L	Haines & Company, Inc.
	GEORGIA Michael L	Haines & Company, Inc.
	WONG Judy	Haines & Company, Inc.
1995	Mc Gulre John N	Pacific Bell
1991	Mc Guire John N	Pacific Bell
	Wedlock Hugh Jr	Pacific Bell
1985	Mc Guire John H	Pacific Bell
1980	MC GUIRE JOHN N	Pacific Telephone
1970	MCGUIRE JOHN N	Pacific Telephone
	MCGUIRE JOHN N	Pacific Telephone
1956	SHEPLER M	Pacific Telephone
1950	SHEPLER M R	Pacific Telephone
	SHEPLER M R	Pacific Telephone

11642 MARGATE ST

Year	Uses	Source
2006	CERVANTES Chare la	Haines Company, Inc.
	GREENE Kadee	Haines Company, Inc.
	SWIFT Brent	Haines Company, Inc.
2001	CERVANTES Charles	Haines & Company, Inc.
	GREENE Karlee	Haines & Company, Inc.
	SWIFT Brent	Haines & Company, Inc.

Year	Uses	Source
1995	Greene Karlee	Pacific Bell
	Swift Brent	Pacific Bell
1991	Greene L	Pacific Bell
	Greene L	Pacific Bell
	Greene L & C	Pacific Bell
	Greene Larry & Diana	Pacific Bell
	Swift Brent	Pacific Bell
	Swift C W & Associates eictrnc equip	Pacific Bell
	Greene Karlee	Pacific Bell
	Greene Kellie	Pacific Bell
	Greene Kenneth s	Pacific Bell
	Greene L	Pacific Bell
1985	Greene Karlee	Pacific Bell
	Greene L	Pacific Bell
	Greene L	Pacific Bell
	Swift Brent	Pacific Bell
1980	POCKROS PAUL	Pacific Telephone
1970	DUFF JAS M MRS	Pacific Telephone
	DUFF JAS M MRS	Pacific Telephone
1962	DUFF JAS M	Pacific Telephone
1956	NOWACK H L	Pacific Telephone
1950	HOFFMAN MILTON E R	Pacific Telephone
	HOFFMAN MILTON E R	Pacific Telephone

11645 MARGATE ST

Year	Uses	Source
2013	K B INSURANCE SERVICES	Cole Information Services
2008	KB INSURANCE SERVICES	Cole Information Services
2006	KB INSURANCE 818 763 sm	Haines Company, Inc.
	BANKS Kenneth CJr	Haines Company, Inc.
2001	BANKS Kenneth C Jr	Haines & Company, Inc.
	K B INSURANCE SERV	Haines & Company, Inc.
1995	KB Insurance Services	Pacific Bell
	Banks Kenneth C Jr	Pacific Bell
1991	K & BI Property Management	Pacific Bell
	K BI Insurance Services	Pacific Bell
1985	Tasker Homer	Pacific Bell
1980	EDINGTON VIVIAN E NORTH HOLLYWOOD	Pacific Telephone

FINDINGS

Year	Uses	Source
1980	TASKER VIVIAN E	Pacific Telephone
	TASKER HOMER	Pacific Telephone
1970	EDINGTON VIVIAN E	Pacific Telephone
	EDINGTON VIVIAN E	Pacific Telephone
1962	EDINGTON ALVIN C	Pacific Telephone
1956	EDINGTON ALVIN C	Pacific Telephone

11646 MARGATE ST

Year	Uses	Source
2006	SMITHAnge	Haines Company, Inc.
1980	SMITH MICHAEL A	Pacific Telephone
1970	LANGHAM LUCILLE	Pacific Telephone
	LANGHAM LUCILLE	Pacific Telephone
	LANGHAM LOUIS E	Pacific Telephone
	LANGHAM LOUIS E	Pacific Telephone
1962	WOOLLEY BRUCE MRS	Pacific Telephone
1950	SMITH TOM MRS R	Pacific Telephone
	SMITH TOM MRS R	Pacific Telephone

11649 MARGATE ST

Year	Uses	Source
2006	HEANERJohn	Haines Company, Inc.
2001	HEANER John	Haines & Company, Inc.
1962	FITZGERALD THOS J	Pacific Telephone
1956	FITZGERALD THOS J	Pacific Telephone
1950	CALLAHAN NEIL G R	Pacific Telephone
	CALLAHAN NEIL G R	Pacific Telephone

11652 MARGATE ST

Year	Uses	Source
2006	HEAPBevedy	Haines Company, Inc.
	FISHERJohn	Haines Company, Inc.
2001	CANE L	Haines & Company, Inc.
	HEAP Beverly	Haines & Company, Inc.
1985	Heap Gregory T	Pacific Bell
1970	POTTER HASEL N MRS	Pacific Telephone
	POTTER HASEL N MRS	Pacific Telephone
1962	POTTER EMERY R	Pacific Telephone
1956	POTTER EMERY R	Pacific Telephone

FINDINGS

Year	Uses	Source
1950	POTTER EMERY R R	Pacific Telephone
	POTTER EMERY R R	Pacific Telephone

11655 MARGATE ST

Year	Uses	Source
2006	o BOHANAN Karen	Haines Company, Inc.
2001	BOWLAND Karen	Haines & Company, Inc.
1995	Sovel Richard	Pacific Bell
1980	CURREN RONALD	Pacific Telephone
1970	HOHN ALDA S	Pacific Telephone
	HOHN ALDA S	Pacific Telephone
1962	HOHN ALDA S	Pacific Telephone
1956	HOHN WALTER G	Pacific Telephone
1950	HOHN WALTER G R	Pacific Telephone
	HOHN WALTER G R	Pacific Telephone

11656 MARGATE ST

Year	Uses	Source
2006	o CEVALLOS Michael	Haines Company, Inc.
2001	SEIFFERT M G	Haines & Company, Inc.
1995	Seiffert M G	Pacific Bell
1991	Seiffert MG	Pacific Bell
1985	Talley L Bl	Pacific Bell
1980	TALLEY L B	Pacific Telephone
1970	TALLEY L B	Pacific Telephone
	TALLEY L B	Pacific Telephone
1962	FREDERICK CARRIE M	Pacific Telephone

11659 MARGATE ST

Year	Uses	Source
2006	SART 1 NHeindch	Haines Company, Inc.
2001	SARTIN Heinrich	Haines & Company, Inc.
	TUNICK Anna F	Haines & Company, Inc.
1985	De Ig Dale I	Pacific Bell
	Dell Edw C	Pacific Bell
1980	DELFS EDW C	Pacific Telephone
1975	Stanton Ray W Mrs	Pacific Telephone
1970	STANTON RAY W MRS	Pacific Telephone
	STANTON RAY W MRS	Pacific Telephone

Year	Uses	Source
1962	DISHMAN ALAN	Pacific Telephone
	STANTON RAY W	Pacific Telephone
1956	STANTON RAY W	Pacific Telephone
1950	VOSS EDNA T R	Pacific Telephone
	VOSS EDNA T R	Pacific Telephone

11662 MARGATE ST

Year	Uses	Source
2006	MARTELO	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1991	CS F Productions Inc	Pacific Bell
1956	AVONDE HENRY	Pacific Telephone
1950	AVONDE HENRY R	Pacific Telephone
	AVONDE HENRY R	Pacific Telephone

11663 MARGATE ST

Year	Uses	Source
2006	o BENARDJeff	Haines Company, Inc.
1985	Kosola C	Pacific Bell
1980	BROOKE MICHAEL T	Pacific Telephone

11666 MARGATE ST

Year	Uses	Source
2001	KANNO Gerda	Haines & Company, Inc.
1970	KANNO BORIS E	Pacific Telephone
	KANNO PAUL C	Pacific Telephone
	KANNO PAUL C	Pacific Telephone
	KANNO BORIS E	Pacific Telephone
1962	KANNO BORIS E	Pacific Telephone
1956	GIUFFRA MICHAEL E	Pacific Telephone
1950	SCHNEYDER ROLF MRS R	Pacific Telephone
	SCHNEYDER ROLF MRS R	Pacific Telephone

11669 MARGATE ST

Year	Uses	Source
2006	FRENKEL Judith	Haines Company, Inc.
2001	FRENKEL Judith	Haines & Company, Inc.
1995	Frenkel Martin	Pacific Bell
1991	Frenkel Martin	Pacific Bell
1985	Frenkel Judi	Pacific Bell

Year	Uses	Source
1985	Frenkel Martin	Pacific Bell
1980	FRENKEL MARTIN	Pacific Telephone
	FRENKEL EVELYN Z	Pacific Telephone
1970	FRENKEL MARTIN	Pacific Telephone
	FRENKEL MARTIN	Pacific Telephone
1962	OFSTAD A OSBORNE	Pacific Telephone
1956	KREFT FLOYD	Pacific Telephone
1950	FRANKENFIELD FRANCIS R R	Pacific Telephone
	FRANKENFIELD FRANCIS R R	Pacific Telephone

11671 MARGATE ST

Year	Uses	Source
2006	e MEDOVOIAm Ir	Haines Company, Inc.
2001	MEDOVOL Amir	Haines & Company, Inc.
1980	ALBANO LOUIS JAS	Pacific Telephone
1970	ALBANO LOUIS JAS	Pacific Telephone
	ALBANO LOUIS JAS	Pacific Telephone
1962	ALBANO LOUIS JAS	Pacific Telephone
1956	ALBANO LOUIS JAS	Pacific Telephone
1950	BUTLER NAT G R	Pacific Telephone
	BUTLER NAT G R	Pacific Telephone

11672 MARGATE ST

Year	Uses	Source
2006	o DADONNick	Haines Company, Inc.
2001	ASKAR Robert	Haines & Company, Inc.
1985	Askar R	Pacific Bell
	Askar R	Pacific Bell
1980	ASKAR R	Pacific Telephone
1970	STUTZ WM H	Pacific Telephone
	STUTZ WM H	Pacific Telephone
1962	STUTZ WM H	Pacific Telephone
1956	STUTZ WM H	Pacific Telephone
1950	LAWSON ROBT R	Pacific Telephone
	LAWSON ROBT R	Pacific Telephone

11675 MARGATE ST

Year	Uses	Source
2006	OPEACOCKUsa	Haines Company, Inc.

Year	Uses	Source
2001	GORE M L	Haines & Company, Inc.
1995	Gore ML	Pacific Bell
1991	Gore ML	Pacific Bell
	Gore Steven Nor	Pacific Bell
1985	Gore M L	Pacific Bell
1980	GORE ROY C	Pacific Telephone
1970	GORE ROY C	Pacific Telephone
	GORE ROY C	Pacific Telephone
1962	GORE ROY C	Pacific Telephone
1956	GORE ROY C	Pacific Telephone
1950	GORE ROY C R	Pacific Telephone
	GORE ROY C R	Pacific Telephone

11676 MARGATE ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1991	Kasten Robt A	Pacific Bell
1985	Kasten Robt A	Pacific Bell
1980	KASTEN ROBT A NORTH HOLLYWOOD	Pacific Telephone
1970	HORNEY FRANK L	Pacific Telephone
	HORNEY FRANK L	Pacific Telephone
1962	MORRIS BERTHA E	Pacific Telephone
1956	MORRIS MASON N	Pacific Telephone
1950	MORRIS MASON W R	Pacific Telephone
	MORRIS MASON W R	Pacific Telephone

11681 MARGATE ST

Year	Uses	Source
2006	MAGAZINER Fdma	Haines Company, Inc.
2001	BEN Yefim	Haines & Company, Inc.
1970	PLECHOT THERESE	Pacific Telephone
	PLECHOT THERESE	Pacific Telephone
1962	GLIDDEN HELEN MRS	Pacific Telephone
1956	NADAY ALEX	Pacific Telephone

11682 MARGATE ST

Year	Uses	Source
2006	DZIEKONSKI Stenen	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2006	OAKES Raymond	Haines Company, Inc.
2001	OAKES Raymond	Haines & Company, Inc.
1985	Grill Simon	Pacific Bell
	Grillette E	Pacific Bell
1970	CHRISTIAN E M	Pacific Telephone
	CHRISTIAN E M	Pacific Telephone
1962	SPENCER ROBT	Pacific Telephone
1956	SPENCER ROBT R	Pacific Telephone
1950	SPENCER ROBT R	Pacific Telephone
	SPENCER ROBT R	Pacific Telephone

11683 MARGATE ST

Year	Uses	Source
2006	MIWGAN Florence	Haines Company, Inc.
2001	MILLIGAN Florence	Haines & Company, Inc.
1995	Milligan Florence	Pacific Bell
1991	Milligan Jody	Pacific Bell
	Milhigan Jody	Pacific Bell
	Milligan JG	Pacific Bell
	Milligan Florence	Pacific Bell
1985	Freeman Steve	Pacific Bell
1980	GLEDHILL J W	Pacific Telephone
1970	GLEDHILL J W	Pacific Telephone
	GLEDHILL J W	Pacific Telephone
1962	GLEDHILL J W	Pacific Telephone
1956	GLEDHILL J W	Pacific Telephone

11688 MARGATE ST

Year	Uses	Source
2006	STERN Sara	Haines Company, Inc.
2001	STERN Sara	Haines & Company, Inc.
1980	WOSK LEONARD J	Pacific Telephone
1962	MILES BETH	Pacific Telephone
1956	MILES BETH	Pacific Telephone
1950	MILLER HERBERT S R	Pacific Telephone
	MILLER HERBERT S R	Pacific Telephone

FINDINGS

11689 MARGATE ST

Year	Uses	Source
2001	JOHANN Susan	Haines & Company, Inc.
	ROSENBLATT Richard H	Haines & Company, Inc.
	SWACKHAMER Eva	Haines & Company, Inc.
	SWACKHAMER Eva	Haines & Company, Inc.
1975	OHara Marita	Pacific Telephone
1970	SUNKER RONALD	Pacific Telephone
	SUNKER RONALD	Pacific Telephone
1956	JOHANSSON JAS H	Pacific Telephone
1950	EVANS MONROE J R	Pacific Telephone
	EVANS MONROE J R	Pacific Telephone

11690 MARGATE ST

Year	Uses	Source
1970	FAGAN PATRICIA	Pacific Telephone
	FAGAN PATRICIA	Pacific Telephone
1962	TINSLEY OSWALD U	Pacific Telephone
1956	KERN G S	Pacific Telephone
	KERN MILDRED M	Pacific Telephone

11691 MARGATE ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1985	Wilson Stuart	Pacific Bell
1980	QUINN CHAS R	Pacific Telephone
	HALVERSON CYNTHIA	Pacific Telephone
1970	BROWN THOS TAIT	Pacific Telephone
	BROWN THOS TAIT	Pacific Telephone
1962	NICHOLSON DORIS	Pacific Telephone
	ROBERTS GRACE M	Pacific Telephone

MCCORMICK ST

11634 MCCORMICK ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1970	BEYER GEO A	Pacific Telephone
	BEYER GEO A	Pacific Telephone

Year	Uses	Source
1962	BEYER GEO A	Pacific Telephone
1950	THOMAS LIONEL C R	Pacific Telephone
	THOMAS LIONEL C R	Pacific Telephone

11635 MCCORMICK ST

Year	Uses	Source
2008	GLOBAL BRAINSTORM	Cole Information Services
2006	a VILLAREALRenato	Haines Company, Inc.
	TOENESRichard	Haines Company, Inc.
1970	SMITH A T REV	Pacific Telephone
	SMITH A T REV	Pacific Telephone
1962	LEIH JOHN REV	Pacific Telephone
1956	LEIH JOHN REV	Pacific Telephone
1950	SAWYER HENRY C R	Pacific Telephone
	SAWYER HENRY C R	Pacific Telephone

11640 MCCORMICK ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1970	CHEEVER GREG T	Pacific Telephone
	CHEEVER GREG T	Pacific Telephone
1962	BANKS KENNETH C SR	Pacific Telephone

11641 MCCORMICK ST

Year	Uses	Source
2006	a FLORESGene	Haines Company, Inc.
1950	HENRICHS W D R	Pacific Telephone
	HENRICHS W D R	Pacific Telephone

11646 MCCORMICK ST

Year	Uses	Source
1962	DOCTER LLOYD	Pacific Telephone
1950	CLARK LEONARD G R	Pacific Telephone
	CLARK LEONARD G R	Pacific Telephone

11647 MCCORMICK ST

Year	Uses	Source
2013	STORMMAKER PRODUCTIONS	Cole Information Services
2006	a SIEBRAND Lenard	Haines Company, Inc.
1970	DUNWODY WM M	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	BAKER WALTER	Pacific Telephone
	BAKER WALTER	Pacific Telephone
	DUNWODY WM M	Pacific Telephone
1962	SEARS EVERETT L	Pacific Telephone

11650 MCCORMICK ST

Year	Uses	Source
2008	ZYGGY CIGARS DISTRIBUTORS CORP	Cole Information Services
2006	AZRAs Daniel	Haines Company, Inc.
1980	MONTESANO ROGER	Pacific Telephone
1970	CRADDOCK M S	Pacific Telephone
	CRADDOCK M S	Pacific Telephone
1958	Wilson Carmen E	Pacific Telephone
1950	NEWTON NELLIE MRS R	Pacific Telephone
	NEWTON NELLIE MRS R	Pacific Telephone

11651 MCCORMICK ST

Year	Uses	Source
2006	CHOIJJoan	Haines Company, Inc.
1980	CHAMBERS ROBBIE	Pacific Telephone

11656 MCCORMICK ST

Year	Uses	Source
2006	SUUTBeenedict	Haines Company, Inc.
	PATELPsan	Haines Company, Inc.
1962	DYE DOROTHY	Pacific Telephone
1956	DYE DOROTHY	Pacific Telephone
1950	DYE DOROTHY R	Pacific Telephone
	DYE DOROTHY R	Pacific Telephone

11657 MCCORMICK ST

Year	Uses	Source
2006	e PEMTCORD Laura	Haines Company, Inc.
1970	WHISNANT CLAIRE N	Pacific Telephone
	WHISNANT CLAIRE N	Pacific Telephone
1956	REID DOROTHY H	Pacific Telephone
1950	REID BILL R	Pacific Telephone
	HODGE MINNIE D R	Pacific Telephone
	REID BILL R	Pacific Telephone
	HODGE MINNIE D R	Pacific Telephone

FINDINGS

11662 MCCORMICK ST

Year	Uses	Source
2006	a COSSW 8 Ilram	Haines Company, Inc.
1962	SCOTT ROY J	Pacific Telephone
1950	SCOTT ROY R	Pacific Telephone
	SCOTT ROY R	Pacific Telephone

11663 MCCORMICK ST

Year	Uses	Source
2006	BODENHEIMER	Haines Company, Inc.
	Carey RUSH Suame	Haines Company, Inc.
1980	DANIELS WM LEWIS	Pacific Telephone

11666 MCCORMICK ST

Year	Uses	Source
2006	TING Jonathan	Haines Company, Inc.
1980	NUMAIR GEO J	Pacific Telephone

11667 MCCORMICK ST

Year	Uses	Source
2006	o BONGKyu	Haines Company, Inc.
1962	CALGER GEO F	Pacific Telephone
1956	CALGER GEO F	Pacific Telephone
1950	CALGER GEO F R	Pacific Telephone
	MCCONKEY DOLORES R	Pacific Telephone
	CALGER GEO F R	Pacific Telephone
	MCCONKEY DOLORES R	Pacific Telephone

11672 MCCORMICK ST

Year	Uses	Source
2006	o SMEESTERAshley	Haines Company, Inc.
1970	LEFLER J M	Pacific Telephone
	LEFLER J M	Pacific Telephone
1962	LEFLER JAS L	Pacific Telephone
1950	MILES LILLIAN L R	Pacific Telephone
	MILES LILLIAN L R	Pacific Telephone

11673 MCCORMICK ST

Year	Uses	Source
2006	e MALLES Martin	Haines Company, Inc.
1950	BAUER LYDIA B R	Pacific Telephone

Year	Uses	Source
1950	BAUER LYDIA B R	Pacific Telephone

11676 MCCORMICK ST

Year	Uses	Source
2006	P FISHER Michee	Haines Company, Inc.
1980	SCHWARTZ HARRISON R	Pacific Telephone
1962	BERTRAM BARRY	Pacific Telephone
1958	Bertram Barry	Pacific Telephone
1950	NELSON E O R	Pacific Telephone
	NELSON E O R	Pacific Telephone

11677 MCCORMICK ST

Year	Uses	Source
2006	a IKUTAGee	Haines Company, Inc.

11682 MCCORMICK ST

Year	Uses	Source
2006	o HAGUE James	Haines Company, Inc.
1970	PERRETT JOHN R	Pacific Telephone
	PERRETT JOHN R	Pacific Telephone
1962	CIUFO EUGENE A	Pacific Telephone
1950	HANDLEY LULA A R	Pacific Telephone
	HANDLEY E A R	Pacific Telephone
	HANDLEY LULA A R	Pacific Telephone
	HANDLEY E A R	Pacific Telephone

11683 MCCORMICK ST

Year	Uses	Source
2006	o AJELLOJoyne	Haines Company, Inc.
1980	MILLER CHARLIE O	Pacific Telephone

11684 MCCORMICK ST

Year	Uses	Source
1950	KUNDERT CHRIS W R	Pacific Telephone
	KUNDERT CHRIS W R	Pacific Telephone

11685 MCCORMICK ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.

FINDINGS

11689 MCCORMICK ST

Year	Uses	Source
1950	LEAVITT R M R	Pacific Telephone
	LEAVITT R M R	Pacific Telephone

11690 MCCORMICK ST

Year	Uses	Source
1980	VIDELA GLORIA	Pacific Telephone
1956	MANN E H	Pacific Telephone

11691 MCCORMICK ST

Year	Uses	Source
2006	CARLSONABcia	Haines Company, Inc.
1970	FRENCH L MANLEY	Pacific Telephone
	FRENCH L MANLEY	Pacific Telephone
1950	FULLER L V R	Pacific Telephone
	FULLER L V R	Pacific Telephone

Radford Ave

5242 Radford Ave

Year	Uses	Source
2006	RADFORD MANOR APTS	Haines Company, Inc.
	ALEMAYEHUE	Haines Company, Inc.
	BECKER Steven	Haines Company, Inc.
	ENGMYRJon E	Haines Company, Inc.
	GONZALEZJOSE	Haines Company, Inc.
	HARRISJesse	Haines Company, Inc.
	MARTINEZ Jason S	Haines Company, Inc.
	MATHEWSAdrena	Haines Company, Inc.
	OKPARAOCHA Nancy	Haines Company, Inc.
	ORTIZ Moda E	Haines Company, Inc.
2001	DIGGS Martin L	Haines & Company, Inc.
	RADFORD MANOR APTS	Haines & Company, Inc.
	ALEMAYEHU E	Haines & Company, Inc.
	CHADOT David B	Haines & Company, Inc.
	KUZMIN Genrykh	Haines & Company, Inc.
	ORTIZ Maria E	Haines & Company, Inc.
	POST Al	Haines & Company, Inc.
	RADFORD MANOR	Haines & Company, Inc.

FINDINGS

Year	Uses	Source
1995	Post Al	Pacific Bell
	Sokoloff K	Pacific Bell
	I Sokolosky Laura	Pacific Bell
	Radford Manor	Pacific Bell
1991	Paik Robert J	Pacific Bell
	Pollack Allan M	Pacific Bell
	Polack Aprfl M	Pacific Bell
	Pollack & Associates	Pacific Bell
	Radford Mike & Nancy	Pacific Bell
	Radford Manor	Pacific Bell
	Drakedohn F	Pacific Bell
	Donnelly Martin	Pacific Bell
	Donnelly Mary	Pacific Bell
	Post Al	Pacific Bell
	Post Alarm Systems & Patrol Services	Pacific Bell
	Stemberg Eytan	Pacific Bell
	Mei Ken	Pacific Bell
	Mei Mike	Pacific Bell
	Rhymer S	Pacific Bell
	Rhyne D	Pacific Bell
1985	Rhymer S	Pacific Bell
	Grad C F	Pacific Bell
	Pollack Allan M	Pacific Bell
	Post Al	Pacific Bell
	Rhyne S	Pacific Bell
	Minsberg J	Pacific Bell
	Minsberg Max	Pacific Bell
	Rosenbaum Danny	Pacific Bell
	Tucci J A	Pacific Bell
	Bragg M J	Pacific Bell
	Johnson Constancia	Pacific Bell
	Khayat Avner & Jennifer	Pacific Bell
1980	BRAGG M J	Pacific Telephone
	JOHNSON CONSTANCIA	Pacific Telephone
	MOZLIN BARRY	Pacific Telephone
	BRISTOL JAS T	Pacific Telephone
	NORDELLA JEFFREY B	Pacific Telephone
	GRAD C F	Pacific Telephone

Year	Uses	Source
1980	POST AL	Pacific Telephone
	HAGEMANN CHRISSI	Pacific Telephone
	PULIDO JOE	Pacific Telephone
	HAMILTON JAS A	Pacific Telephone
	MARK D R	Pacific Telephone
	WEIDMAN RUTH	Pacific Telephone
	MITCHAM WALTER F	Pacific Telephone
	KATSOTIS R G	Pacific Telephone
1975	Janzow David	Pacific Telephone
	JAPAN AIR LINES Contd	Pacific Telephone
	Pink Jeff Z	Pacific Telephone
	Powers David	Pacific Telephone
	Goldenberg Phillip	Pacific Telephone
	Harris Stan	Pacific Telephone
	Zakonyi Jos	Pacific Telephone
	Holt Hamilton T Jr	Pacific Telephone

W Magnolia Blvd

11809 W Magnolia Blvd

Year	Uses	Source
2006	APARTMENTS AROUTIOUNYAN	Haines Company, Inc.
	Margarila HOVAKIMYAN Azat	Haines Company, Inc.
	IUKURIDZETamazi	Haines Company, Inc.
	MAMIKONYAN	Haines Company, Inc.
	Harutyun	Haines Company, Inc.
	NALBANDIAN Sadds	Haines Company, Inc.
	OLSHANSKIY NIkolay	Haines Company, Inc.
	Armik DEMIRCHYAN	Haines Company, Inc.
2001	HOVSEPYAN Sima	Haines & Company, Inc.
	APARTMENTS	Haines & Company, Inc.
	ABAJIAN Susan	Haines & Company, Inc.
	CARDONA M	Haines & Company, Inc.
	FLORES Daniel R	Haines & Company, Inc.
	KUMURYAN Margret	Haines & Company, Inc.
	OLSHANSKIY Nikolay	Haines & Company, Inc.
1995	Piliposiam Azadoui	Pacific Bell
	Abajian Susan	Pacific Bell
1991	Piltosiam Azadoui	Pacific Bell

FINDINGS

Year	Uses	Source
1991	Piltz Harry	Pacific Bell
	Piluso D	Pacific Bell
	Paxton L	Pacific Bell
	Bonilla Justavo	Pacific Bell
	Bonilla Kenneth	Pacific Bell
	Bonilla Leonardo	Pacific Bell
	Abajian Susan	Pacific Bell
1985	Rawlings Duncan P	Pacific Bell
	Rawlings Graciela S	Pacific Bell
	Kim Kwang Jung	Pacific Bell
	Fitzgerald Bl & S	Pacific Bell
1980	NAKANO YOSHIFUMI NORTH HOLLYWOOD	Pacific Telephone
	SIMON PATRICK	Pacific Telephone
	LIMUDIM HILDA	Pacific Telephone
	PETR C F	Pacific Telephone
	BEACH VANCE	Pacific Telephone
1975	Foster L	Pacific Telephone
	Cohen C	Pacific Telephone
	Laird Dudley J	Pacific Telephone
	Greenwald Kim	Pacific Telephone
	Hamilton Wm	Pacific Telephone
	Halkidis Anastasios	Pacific Telephone
1970	HUNT JAS E	Pacific Telephone
	HODGETTS ERIC	Pacific Telephone
	DEL SECCO RICHARD	Pacific Telephone
	FESSIER H F	Pacific Telephone
	LAIRD DUDLEY J	Pacific Telephone
	HAMILTON WM	Pacific Telephone
	MEYER JOS J	Pacific Telephone
	WERNER JACK	Pacific Telephone
	WERNER JACK	Pacific Telephone
	FESSIER H F	Pacific Telephone
	LAIRD DUDLEY J	Pacific Telephone
	HAMILTON WM	Pacific Telephone
	MEYER JOS J	Pacific Telephone
	DEL SECCO RICHARD	Pacific Telephone
	HODGETTS ERIC	Pacific Telephone
	HUNT JAS E	Pacific Telephone

FINDINGS

Year	Uses	Source
1958	Wolf Nathan	Pacific Telephone
1956	DODGE CHAS C	Pacific Telephone
1950	DODGE CHAS C R	Pacific Telephone
	DODGE CHAS C R	Pacific Telephone

11815 W Magnolia Blvd

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1985	Clark Craig	Pacific Bell
1980	BODNER RON	Pacific Telephone
	MULLENIX J R	Pacific Telephone
1975	Lichtenstein Morris	Pacific Telephone
	OHearn Norman	Pacific Telephone
1970	LICHTENSTEIN MORRIS	Pacific Telephone
	O HEARN NORMAN	Pacific Telephone
	O HEARN NORMAN	Pacific Telephone
	LICHTENSTEIN MORRIS	Pacific Telephone
1962	MILLER HARRIET	Pacific Telephone
	STEVENS ALMA E	Pacific Telephone
1956	DOMROE WM	Pacific Telephone

11821 W Magnolia Blvd

Year	Uses	Source
2006	GASPARYAN Narene	Haines Company, Inc.
	JIMENEZ Rodo	Haines Company, Inc.
	Vardanrrsh	Haines Company, Inc.
	MNATSAKANIAN	Haines Company, Inc.
2001	MATHIS Harvey	Haines & Company, Inc.
1985	Gordon Steven A	Pacific Bell
	Gordon Steven & Debra	Pacific Bell
	Hahn C	Pacific Bell
	Mc Kenna M C	Pacific Bell
	Kaiser Lauren Y	Pacific Bell
	Mitchell Craig D	Pacific Bell
	Mitchell D	Pacific Bell
	Mitchell D	Pacific Bell
	Mitchell D D Sylm	Pacific Bell
	Mitchell D J	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Khosrowabadi Jack	Pacific Bell
1980	SEABERRY JAS	Pacific Telephone
	COFFEY J NORTH HOLLYWOOD	Pacific Telephone
	KHOSROWABADI JACK	Pacific Telephone
	CALLAHAN MICHAEL E	Pacific Telephone
	SLOAN DAVID	Pacific Telephone
	CARTER F A	Pacific Telephone
	LONG EUGENE	Pacific Telephone
	LONG SHERLINE	Pacific Telephone
	COOK DAVE	Pacific Telephone
	BARCROFT LLOYD	Pacific Telephone
1975	Pye Patricia	Pacific Telephone
1970	CHRISTOPHER PAUL	Pacific Telephone
	CHRISTOPHER PAUL	Pacific Telephone
1962	FERNBACH ROBERT	Pacific Telephone
1956	FERNBACH ROBERT	Pacific Telephone
1950	SLUSSER GERALD R R	Pacific Telephone
	SLUSSER GERALD R R	Pacific Telephone

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Year	Uses	Source
2006	APARTMENTS ALBERTO Mae	Haines Company, Inc.
	BINDER RIv	Haines Company, Inc.
	BLASSBERG Joseph	Haines Company, Inc.
	E CHASteve Y	Haines Company, Inc.
	CLAYBURGH Janna E	Haines Company, Inc.
	GILUNGHAM John	Haines Company, Inc.
	KHAN Uzma	Haines Company, Inc.
	LEVIN Tarrar	Haines Company, Inc.
	ROYTMANSye USna	Haines Company, Inc.
2001	CHA Steve Y	Haines & Company, Inc.
	APARTMENTS	Haines & Company, Inc.
	BINDER Riva	Haines & Company, Inc.
	CHA Steve Y	Haines & Company, Inc.
	CLAYBURGH Janna E	Haines & Company, Inc.
	EPSTEIN Steve	Haines & Company, Inc.
	JAGHER Yael	Haines & Company, Inc.
	KIM Young W	Haines & Company, Inc.
	PFAFF M	Haines & Company, Inc.

FINDINGS

Year	Uses	Source
2001	PLUTSKY Melvin	Haines & Company, Inc.
1995	Matlock David	Pacific Bell
	Moiler Geo Jr	Pacific Bell
	Kim Young W	Pacific Bell
	Binder Riva	Pacific Bell
1991	Moaler Geo Jr	Pacific Bell
	Kusmierz Larry	Pacific Bell
	Kusmierz Paula Sepulveda	Pacific Bell
	Kusnetz R	Pacific Bell
	Nassar Jeanne	Pacific Bell
	Nassarei Mohammad	Pacific Bell
	Balm Jeff	Pacific Bell
	Happy Paws	Pacific Bell
	Vavrusa Zdenek	Pacific Bell
	Kim Young W	Pacific Bell
	Kusley Michael	Pacific Bell
	Porzlo Patrick L	Pacific Bell
	Hurwits Arnold	Pacific Bell
	Vavrovsky Frank	Pacific Bell
1985	Wedlock Hugh Jr	Pacific Bell
	Lang Archie	Pacific Bell
	Marsh Michael & Jane	Pacific Bell
	van Weeren Ted	Pacific Bell
	Jacobson E	Pacific Bell
	Mein Robt T	Pacific Bell
	Sackman David	Pacific Bell
	Sackman Henry & Ruby	Pacific Bell
	Burney C	Pacific Bell
	Borde Mark	Pacific Bell
	Kent Amy	Pacific Bell
	Kinder Mark	Pacific Bell
	Mulligan L C	Pacific Bell
	Mulligan Leanne	Pacific Bell
	Knight Robt D	Pacific Bell
	James Russ	Pacific Bell
	James S	Pacific Bell
	James S	Pacific Bell
1980	JACOBSON E NORTH HOLLYWOOD	Pacific Telephone

FINDINGS

Year	Uses	Source
1980	BUCKLEY ROBT A	Pacific Telephone
	FRIED A	Pacific Telephone
	KINDER MARK	Pacific Telephone
	LANDA DARIA	Pacific Telephone
	LANG ARCHIE	Pacific Telephone
	PETERSON ALAN	Pacific Telephone
	COPELAND C	Pacific Telephone
	CORREDERA RAFAEL	Pacific Telephone
	MANNING JOHN	Pacific Telephone
	RENAUD FRED E	Pacific Telephone
	VAN WEEREN TED	Pacific Telephone
	HOWELL MICHAEL E	Pacific Telephone
	DREYFUS PENNY	Pacific Telephone
1975	Nye Harold E	Pacific Telephone
	Mc Cormack Stewart	Pacific Telephone
1970	NYE HAROLD E	Pacific Telephone
	MCCORMACK MIDGE	Pacific Telephone
	MCCORMACK STEWART	Pacific Telephone
	MCCORMACK MIDGE	Pacific Telephone
	MCCORMACK STEWART	Pacific Telephone
	NYE HAROLD E	Pacific Telephone
1962	NYE HAROLD E	Pacific Telephone
1956	NYE HAROLD E	Pacific Telephone
1950	NYE HAROLD E R	Pacific Telephone
	NYE HAROLD E R	Pacific Telephone

11839 W Magnolia Blvd

Year	Uses	Source
2006	APARTMENTS ADAM Mantemach	Haines Company, Inc.
	FELDER Dusan	Haines Company, Inc.
	FLOREKKrysfian A	Haines Company, Inc.
	GRIGORIAN Sods	Haines Company, Inc.
	HUTTON Ba	Haines Company, Inc.
	HUTTON Ba	Haines Company, Inc.
	NELSON	Haines Company, Inc.
	Hovhannisyan	Haines Company, Inc.
	NOBLES James	Haines Company, Inc.
	ROGERS Joshua	Haines Company, Inc.
	SEBASTIAN Fred	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2006	TUCKER Lucia B	Haines Company, Inc.
	TUCKER Lucia B	Haines Company, Inc.
	GUEST David	Haines Company, Inc.
2001	NEGRETE Maribel	Haines & Company, Inc.
	APARTMENTS	Haines & Company, Inc.
	GUEST David	Haines & Company, Inc.
	HUTTON Ba	Haines & Company, Inc.
	HUTTON Ba	Haines & Company, Inc.
	NELSON Hovhannsiyan	Haines & Company, Inc.
	NOBLES James	Haines & Company, Inc.
	REYNOLDS David B	Haines & Company, Inc.
	TUCKER Lucia B	Haines & Company, Inc.
1995	Sparks E	Pacific Bell
	Melnick Freda	Pacific Bell
	Tucker Lucia Butrica	Pacific Bell
	Waniak Todd	Pacific Bell
	Schofield Bryn	Pacific Bell
	Staley E	Pacific Bell
1991	Narciso John G	Pacific Bell
	Pilliod Helen	Pacific Bell
	Sparks E	Pacific Bell
	Sparks E A	Pacific Bell
	Sparks Electric	Pacific Bell
	Molnick G	Pacific Bell
	Melnick Freda	Pacific Bell
	Burke Carl	Pacific Bell
	Burke Carol	Pacific Bell
	Waniak Todd	Pacific Bell
1985	Narctso John G	Pacific Bell
	Sparks E	Pacific Bell
	Little Jack	Pacific Bell
	Pilliod August	Pacific Bell
	Tucker Lucia Butrica	Pacific Bell
	Tucker M	Pacific Bell
	Bally Bernardo	Pacific Bell
	Wall Perry	Pacific Bell
	Mulconery Bl	Pacific Bell
	Seifert C L	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Kennedy Greta L	Pacific Bell
	Burke Carl	Pacific Bell
	Arvizu R	Pacific Bell
1980	SEIFERT C L NORTH HOLLYWOOD	Pacific Telephone
	LITTLE JACK NORTH HOLLYWOOD	Pacific Telephone
	WOLF S L	Pacific Telephone
	BROWN JACK M	Pacific Telephone
	KATZ L	Pacific Telephone
	KENNEDY GRETA L	Pacific Telephone
	BUTRICA LUCIA ELENA	Pacific Telephone
	BULLOCK M	Pacific Telephone
	BURKE CARL	Pacific Telephone
	KILLION RANDY	Pacific Telephone
	SPARKS E	Pacific Telephone
	PILLIOD AUGUST	Pacific Telephone
	THELEN PAUL P	Pacific Telephone
	BALLY BERNARDO	Pacific Telephone
	HOYME RON	Pacific Telephone
	SARET DORIS	Pacific Telephone
1976	Parsons Ben E	Pacific Telephone
1975	Katz L	Pacific Telephone
	Brown Jack M	Pacific Telephone
	Thelen Paul P	Pacific Telephone
	Parsons Ben E	Pacific Telephone
	Pilliod August	Pacific Telephone
	Koster Gussie A	Pacific Telephone
	Little Jack	Pacific Telephone
	Weisbrich Betty L	Pacific Telephone
	Saret Doris	Pacific Telephone
	Butrica Lucia Elena	Pacific Telephone
	Burke Carl	Pacific Telephone
	Greenbaum A Julius	Pacific Telephone
	Martin F	Pacific Telephone
	Porter Eula J	Pacific Telephone
	Simons Susan	Pacific Telephone
	Sparks E	Pacific Telephone
1971	Burke Carl	Pacific Telephone
	Parsons Ben E	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	PARSONS BEN E	Pacific Telephone
	SPARKS EDYTHE	Pacific Telephone
	MCBEE DAVID E	Pacific Telephone
	VAROSY MARTHA	Pacific Telephone
	KATZ LILLIAN	Pacific Telephone
	OWENS C J	Pacific Telephone
	OCNOFF TRUDY	Pacific Telephone
	PILLIOD AUGUST	Pacific Telephone
	POLLOCK ALICIA	Pacific Telephone
	PORTER EULA J	Pacific Telephone
	THELEN PAUL P	Pacific Telephone
	PRZYBYLA WALTER J	Pacific Telephone
	BROWN JACK M	Pacific Telephone
	BURKE CARL	Pacific Telephone
	BULLOCK JON	Pacific Telephone
	MARTIN F	Pacific Telephone
	HARRISON CHAS K	Pacific Telephone
	CORKILL EUGENE	Pacific Telephone
	GREENBAUM A JULIUS	Pacific Telephone
	KATZ LILLIAN	Pacific Telephone
	OCNOFF TRUDY	Pacific Telephone
	PARSONS BEN E	Pacific Telephone
	THELEN PAUL P	Pacific Telephone
	OWENS C J	Pacific Telephone
	POLLOCK ALICIA	Pacific Telephone
	PILLIOD AUGUST	Pacific Telephone
	PRZYBYLA WALTER J	Pacific Telephone
	BULLOCK JON	Pacific Telephone
	BROWN JACK M	Pacific Telephone
	PORTER EULA J	Pacific Telephone
	GREENBAUM A JULIUS	Pacific Telephone
	BURKE CARL	Pacific Telephone
	MARTIN F	Pacific Telephone
	CORKILL EUGENE	Pacific Telephone
	HARRISON CHAS K	Pacific Telephone
	MCBEE DAVID E	Pacific Telephone
	VAROSY MARTHA	Pacific Telephone
	SPARKS EDYTHE	Pacific Telephone

FINDINGS

Year	Uses	Source
1967	Burke Carl	Pacific Telephone
	Parsons Ben E	Pacific Telephone
1962	HOLDEN TONY W	Pacific Telephone
	UMAN SYLVIA LEE MRS	Pacific Telephone
	PARSONS BEN E	Pacific Telephone
	ORUM JEANNE	Pacific Telephone
	KAPLAN WM V	Pacific Telephone
	WATTERS E	Pacific Telephone
	RATNER I	Pacific Telephone
	LEE ROBT KARL	Pacific Telephone
	LAMBERT RAYMOND G	Pacific Telephone
	ROSENBAUM FRANK	Pacific Telephone
	FLISS JACK	Pacific Telephone
	SHEDAN FERRIS	Pacific Telephone
	EAHEART W HAL	Pacific Telephone
	BLAND S A	Pacific Telephone
	GLOBE ENTERPRISES LTD	Pacific Telephone
	SHIRLEY ROBT D	Pacific Telephone
	SANFORD BERT	Pacific Telephone
	HALMY HELEN	Pacific Telephone
	HALL W JANE	Pacific Telephone
	HALL JANE	Pacific Telephone
	STERN LEON	Pacific Telephone
	STEIG LILLIAN	Pacific Telephone
	Parsons Ben E	Pacific Telephone
	Stern Leon	Pacific Telephone
1956	LAING JOHN N	Pacific Telephone
1950	LAING JOHN N	Pacific Telephone
	HOEY J C R	Pacific Telephone
	HOEY J C R	Pacific Telephone
	LAING JOHN N	Pacific Telephone
1940	RYLAND JESSE W (O)	Los Angeles Directory Co.

11855 W Magnolia Blvd

Year	Uses	Source
2001	BEECHUM Andrew R	Haines & Company, Inc.
	DUPUY Jessica	Haines & Company, Inc.
	BUNYIK Anna	Haines & Company, Inc.
	APARTMENTS	Haines & Company, Inc.

FINDINGS

Year	Uses	Source
2001	BARTOLOTTA Angello	Haines & Company, Inc.
	BRUSH Keith A	Haines & Company, Inc.
	DIMANT Yefat	Haines & Company, Inc.
	GAUGHEN Andrew	Haines & Company, Inc.
	KNAFO Ilanit	Haines & Company, Inc.
	MEHRA Shive	Haines & Company, Inc.
	MERRILL Lawrence V	Haines & Company, Inc.
	PAREDES Carlo J	Haines & Company, Inc.
	POLK C	Haines & Company, Inc.
	WEBB Evan R	Haines & Company, Inc.
1995	Cook Anthony J	Pacific Bell
	Gaughen Andrew	Pacific Bell
	Brown Jeffrey H	Pacific Bell
	Martin Michelle Mischa	Pacific Bell
1991	Bahar Mohammed Bl	Pacific Bell
	Bahar Rina	Pacific Bell
	Bahar Yitshac	Pacific Bell
	Milhollan Richard	Pacific Bell
	Milholiand George	Pacific Bell
	Dimant Mark & Ruth	Pacific Bell
	Agronin Michael	Pacific Bell
	ME RRILL LYN CH PIE RCE FE N N E R & S MITH IN C	Pacific Bell
	Brown Jeffrey H	Pacific Bell
	Brown Jennifer	Pacific Bell
	Merrill Lawrence V	Pacific Bell
	Monday Dick	Pacific Bell
1985	Chase Orville D	Pacific Bell
	Caldwell Mac	Pacific Bell
	Caldwell Major A	Pacific Bell
	Caldwell M W	Pacific Bell
	Fine Matthew	Pacific Bell
	Goldstein Louis & Esther	Pacific Bell
	Sherry Max & Marion D	Pacific Bell
	Confinante T	Pacific Bell
	Costello Bl A	Pacific Bell
	Kaitel Shlomo	Pacific Bell
	Sherry Norma K	Pacific Bell
	Dunham Stanley L	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Arms R	Pacific Bell
1981	TSAI ROBT NH	Pacific Telephone
1980	BRANCFIELD LEO N JR	Pacific Telephone
	KATZ STEPHEN B	Pacific Telephone
	NATHANSON WM I	Pacific Telephone
	CALDWELL M W	Pacific Telephone
	FRIEDMAN SIDNEY A	Pacific Telephone
	SHERRY MAX & MARION D	Pacific Telephone
	SNYDER NATE	Pacific Telephone
	CHASE ORVILLE D	Pacific Telephone
	HELFEND C	Pacific Telephone
	GOLDSTEIN LOUIS & ESTHER	Pacific Telephone
	LIBERTY TOURS	Pacific Telephone
	COSTELLO B A	Pacific Telephone
	CONFINANTE T	Pacific Telephone
	THEODORESCU JEAN	Pacific Telephone
	ARMS R	Pacific Telephone
	HEPNER M	Pacific Telephone
	MEHALIC DONNA	Pacific Telephone
	SACKS BERNARD	Pacific Telephone
	SCHAEFER J	Pacific Telephone
	VIDEO BAND-CREATIVE CORPS	Pacific Telephone
	KUDLER KAREN NORTH HOLLYWOOD	Pacific Telephone
	MANCUSO ANTHONY	Pacific Telephone
1975	Arms R	Pacific Telephone
	Kozlowski Gary	Pacific Telephone
	Payner A L	Pacific Telephone
	Shycoff Danl	Pacific Telephone
	Heffel Robt	Pacific Telephone
	Amirghan Guyrun	Pacific Telephone
	Kirkpatrick Merlin	Pacific Telephone
	Raymond Rose L	Pacific Telephone
	Wiard E H	Pacific Telephone
	Friedman Sidney A	Pacific Telephone
	Fishbeck Harry F	Pacific Telephone
	Brancfield Leo N Jr	Pacific Telephone
	Blank Saml	Pacific Telephone
	Mac Lean Anna M	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	Hunter Kurt F	Pacific Telephone
	Wolfson John N	Pacific Telephone
	Grey Allen	Pacific Telephone
	Eodice L	Pacific Telephone
	Etter Grover C	Pacific Telephone
	Chase Orville D	Pacific Telephone
	Snyder Nate	Pacific Telephone
	Confinante T	Pacific Telephone
	Hunter Kurt F	Pacific Telephone
	Hurwin Sally P	Pacific Telephone
	Stern Saml	Pacific Telephone
1970	BECKER MYRA C	Pacific Telephone
	EODICE L	Pacific Telephone
	EPSTEIN NATHAN	Pacific Telephone
	BENSON FLORENCE J	Pacific Telephone
	FISHBECK HARRY F	Pacific Telephone
	WALLACE JAS W	Pacific Telephone
	LUBIN LOUIS MRS	Pacific Telephone
	WATSON V J	Pacific Telephone
	CARPE PHILIP	Pacific Telephone
	GREER BERNARD	Pacific Telephone
	GREY ALLEN	Pacific Telephone
	GOLDIE GERALD	Pacific Telephone
	GREENBERG SOPHIE	Pacific Telephone
	RUTHMAN MAURICE	Pacific Telephone
	ROSENBLOOM LOUIS K	Pacific Telephone
	GULKO JACK	Pacific Telephone
	ROSNER MARCUS	Pacific Telephone
	ROBISON WM P	Pacific Telephone
	SOMMERS DAVE M	Pacific Telephone
	SNYDER NATE	Pacific Telephone
	SNYDER NATE	Pacific Telephone
	SOMMERS DAVE M	Pacific Telephone
	BECKER MYRA C	Pacific Telephone
	EODICE L	Pacific Telephone
	BENSON FLORENCE J	Pacific Telephone
	FISHBECK HARRY F	Pacific Telephone
	WATSON V J	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	GOLDIE GERALD	Pacific Telephone
	LUBIN LOUIS MRS	Pacific Telephone
	ROSNER MARCUS	Pacific Telephone
	ROSENBLOOM LOUIS K	Pacific Telephone
	ROBISON WM P	Pacific Telephone
	WALLACE JAS W	Pacific Telephone
	CARPE PHILIP	Pacific Telephone
	GREER BERNARD	Pacific Telephone
	GREY ALLEN	Pacific Telephone
	RUTHMAN MAURICE	Pacific Telephone
	GULKO JACK	Pacific Telephone
	EPSTEIN NATHAN	Pacific Telephone
	GREENBERG SOPHIE	Pacific Telephone
1967	Snyder Nate	Pacific Telephone
	Gordon Sam	Pacific Telephone
1962	THOMPSON JOE MRS NORTH HOLLYWOOD	Pacific Telephone
	BARBER ROBT NORTH HOLLYWOOD	Pacific Telephone
	SWOBODA DONALD H	Pacific Telephone
	CHRISTENSEN ALICE	Pacific Telephone
	DAVIS JAS W	Pacific Telephone
	KIPNIS ASHER	Pacific Telephone
	WILSON FRED E MRS	Pacific Telephone
	APOSTOL VINCENT J	Pacific Telephone
	APPLEBAUM MORTOT	Pacific Telephone
	FINGER CHAS	Pacific Telephone
	LOGAN THOS H	Pacific Telephone
	HANNIFIN EVERETT A	Pacific Telephone
	BENNETT MARIE	Pacific Telephone
	BENNETT SHARON	Pacific Telephone
	GEORGES MARTIN J	Pacific Telephone
	GEORGES MAY	Pacific Telephone
	GAGLIANO ANTHONY	Pacific Telephone
	MARKER MARIAN	Pacific Telephone
	MARKER W G	Pacific Telephone
	ROSNER MARCUS	Pacific Telephone
	SCHATZ MAURICE A	Pacific Telephone
	GOEMANS EDW M MRS	Pacific Telephone
	BROCKWAY WM	Pacific Telephone

Year	Uses	Source
1962	BOZEMAN DE WARD	Pacific Telephone
	MINES K S	Pacific Telephone
	MINES TOBY	Pacific Telephone
1956	DRULINER J M	Pacific Telephone
1950	TRIETSCH PAUL E R	Pacific Telephone
	TRIETSCH PAUL E R	Pacific Telephone
1940	ROSEN HARRY J (O)	Los Angeles Directory Co.

WEDDINGTON

11639 WEDDINGTON

Year	Uses	Source
1940	WARBURTON LEE S (O)	Los Angeles Directory Co.

11653 WEDDINGTON

Year	Uses	Source
1990	ROBBINS DONALD T NH	Pacific Bell
1981	ROBBINS DONALD T NH	Pacific Telephone
1940	BLANKENSHIP JANE (O)	Los Angeles Directory Co.

11657 WEDDINGTON

Year	Uses	Source
1940	AITKEN JAS M (O)	Los Angeles Directory Co.

11663 WEDDINGTON

Year	Uses	Source
1940	LAMBERT DANL I (O)	Los Angeles Directory Co.

11671 WEDDINGTON

Year	Uses	Source
1940	SCHOFIELD CHESTER L	Los Angeles Directory Co.

11677 WEDDINGTON

Year	Uses	Source
1935	GUILBERG LOUISE D R	Los Angeles Directory Co.

WEDDINGTON ST

11634 WEDDINGTON ST

Year	Uses	Source
2006	MACNEIL Wilaen	Haines Company, Inc.

Year	Uses	Source
2001	EGAAS Eric	Haines & Company, Inc.
	ROSE Stephen K	Haines & Company, Inc.
1975	Cohen Louis	Pacific Telephone
1970	COHEN LOUIS	Pacific Telephone
	COHEN LOUIS	Pacific Telephone
1962	COHEN LOUIS	Pacific Telephone
1956	COHEN LOUIS	Pacific Telephone
1950	WIRTZ E J R	Pacific Telephone
	WIRTZ E J R	Pacific Telephone

11639 WEDDINGTON ST

Year	Uses	Source
2006	HILD Dotg Ias	Haines Company, Inc.
2001	HILD Douglas	Haines & Company, Inc.
1975	Warburton Lee	Pacific Telephone
1970	WARBURTON LEE	Pacific Telephone
	WARBURTON LEE	Pacific Telephone
1962	WARBURTON LEE	Pacific Telephone
1956	WARBURTON LEE	Pacific Telephone

11640 WEDDINGTON ST

Year	Uses	Source
2008	FENLEY DELIVERY	Cole Information Services
2006	e FENLEY Jaews	Haines Company, Inc.
2001	FENLEY James	Haines & Company, Inc.
1985	Harvey Bill	Pacific Bell
	Harvey Bruce D	Pacific Bell
1980	HARVEY BILL	Pacific Telephone
1975	Harvey Bill	Pacific Telephone
1970	HARVEY WM J	Pacific Telephone
	HARVEY WM J	Pacific Telephone
1962	HARVEY WM J	Pacific Telephone
1950	HOFFMAN M H R	Pacific Telephone
	HOFFMAN M H R	Pacific Telephone

11645 WEDDINGTON ST

Year	Uses	Source
2006	LEVY Saomon	Haines Company, Inc.
2001	LEVY Salomon	Haines & Company, Inc.

Year	Uses	Source
1991	Levy Samuel	Pacific Bell
	Levy Salomon	Pacific Bell
1985	Levy Solomon	Pacific Bell
1980	LEVY SOLOMON	Pacific Telephone
1975	Levy Solomon	Pacific Telephone
1970	LEVY SOLOMON	Pacific Telephone
	LEVY SOLOMON	Pacific Telephone
1962	BARNGROVER R G	Pacific Telephone
1950	MILBURN SAM D R	Pacific Telephone
	MILBURN SAM D R	Pacific Telephone

11646 WEDDINGTON ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2001	CHI Hsiao	Haines & Company, Inc.
1980	RHODES TOM C	Pacific Telephone
1975	Rhodesto	Pacific Telephone
1970	MAC CURRAN VERNA	Pacific Telephone
	MAC CURRAN VERNA	Pacific Telephone
1962	MAC CURRAN VERNA	Pacific Telephone
1956	MAC CURRAN VERNA	Pacific Telephone
1950	TEELE CARL E R	Pacific Telephone
	TEELE CARL E R	Pacific Telephone

11647 WEDDINGTON ST

Year	Uses	Source
1970	LOUGHLIN LEELLA	Pacific Telephone
	LOUGHLIN LEELLA	Pacific Telephone

11650 WEDDINGTON ST

Year	Uses	Source
2006	o SELETOSThomas	Haines Company, Inc.
2001	SELETOS Thomas	Haines & Company, Inc.
1980	SELETOS D	Pacific Telephone
	SELETOS THOS J	Pacific Telephone
1975	Seletos Thos J	Pacific Telephone
1970	SELETOS THOS J	Pacific Telephone
	SELETOS THOS J	Pacific Telephone
1962	WILLS IRA E	Pacific Telephone

Year	Uses	Source
1956	WILLS IRA E	Pacific Telephone
1950	HARRIS RALPH H R	Pacific Telephone
	HARRIS RALPH H R	Pacific Telephone

11653 WEDDINGTON ST

Year	Uses	Source
2006	e DELARA Nelson	Haines Company, Inc.
2001	GRAHAM Jack W	Haines & Company, Inc.
1991	Robbins Donald T	Pacific Bell
1985	Robbins E	Pacific Bell
	Robbins Donald T	Pacific Bell
1980	ROBBINS DONALD T	Pacific Telephone
1976	Robbins Donald T	Pacific Telephone
1975	Robbins Donald T	Pacific Telephone
1970	ROBBINS DONALD T	Pacific Telephone
	ROBBINS DONALD T	Pacific Telephone
1962	ROBBINS DONALD T	Pacific Telephone
1958	Robbins Donald T	Pacific Telephone
1956	ROBBINS DONALD T R	Pacific Telephone

11656 WEDDINGTON ST

Year	Uses	Source
2006	LUPERINI Margaret	Haines Company, Inc.
2001	LUPERINI Marcus	Haines & Company, Inc.
1991	Killingsworth Bl	Pacific Bell
1985	Kennedy John G	Pacific Bell
1980	KENNEDY JOHN G	Pacific Telephone
1962	MCKNIGHT PATRICIA A	Pacific Telephone
1956	MC KNIGHT C B	Pacific Telephone
	GOODRICH LOUISE	Pacific Telephone
1950	MCKNIGHT C B R	Pacific Telephone
	MCKNIGHT C B R	Pacific Telephone

11657 WEDDINGTON ST

Year	Uses	Source
2006	e WAGNEREric	Haines Company, Inc.
2001	RITTERBUSCH Joseph	Haines & Company, Inc.
1995	Aitken Jas M	Pacific Bell
1991	Aitken Jas M	Pacific Bell

FINDINGS

Year	Uses	Source
1991	Aitken Keith Tile Msn His	Pacific Bell
1985	Aithen Jas M	Pacific Bell
1980	AITKEN JAS M	Pacific Telephone
1975	Aitken Jas M	Pacific Telephone
1970	AITKEN JAS M	Pacific Telephone
	AITKEN JAS M	Pacific Telephone
1962	AITKEN JAS M	Pacific Telephone
1956	AITKEN JAS M	Pacific Telephone
1950	AITKEN JAS M R	Pacific Telephone
	AITKEN JAS M R	Pacific Telephone

11662 WEDDINGTON ST

Year	Uses	Source
2006	a COLELLAJe S	Haines Company, Inc.
2001	COLELLA Jeff	Haines & Company, Inc.
1985	Parton Caroline	Pacific Bell
	Parton Armond L	Pacific Bell
1980	PARTON ARMOND L	Pacific Telephone
1975	Parton Armond L	Pacific Telephone
1970	PARTON ARMOND L	Pacific Telephone
	PARTON ARMOND L	Pacific Telephone
1962	PARTON ARMOND L	Pacific Telephone
1956	PARTON ARMOND L	Pacific Telephone
1950	PARTON ARMOND L R	Pacific Telephone
	PARTON ARMOND L R	Pacific Telephone

11663 WEDDINGTON ST

Year	Uses	Source
2006	BAUMANN Colleen	Haines Company, Inc.
2001	BAUMANN Colleen	Haines & Company, Inc.
1975	Goldson David	Pacific Telephone
1970	GOLDSON DAVID	Pacific Telephone
	GOLDSON DAVID	Pacific Telephone
1962	BAAR DOROTHY	Pacific Telephone
	BAAR MAX E MD	Pacific Telephone
1956	KLEVENS DOROTHY	Pacific Telephone
1950	KLEVENS IRVING R	Pacific Telephone
	KLEVENS IRVING R	Pacific Telephone

FINDINGS

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Year	Uses	Source
2006	MOSELEY Chris	Haines Company, Inc.
2001	MOSELEY Chris	Haines & Company, Inc.
1970	SHERMAN SIDNEY F	Pacific Telephone
	SHERMAN SIDNEY F	Pacific Telephone
1962	SHERMAN SIDNEY F	Pacific Telephone
1956	SHERMAN SIDNEY F	Pacific Telephone

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Year	Uses	Source
2006	SPERARobert	Haines Company, Inc.
2001	SPERA Robert	Haines & Company, Inc.
1995	Karson George	Pacific Bell
1991	Karson George	Pacific Bell
1975	Grayson Richard	Pacific Telephone
1970	SCHOFIELD MARTIN A	Pacific Telephone
	SCHOFIELD MARTIN A	Pacific Telephone
1962	SCHOFIELD MARTIN A	Pacific Telephone
1956	SCHOFIELD MARTIN A	Pacific Telephone
1950	SCHOFIELD MARTIN A R	Pacific Telephone
	SCHOFIEID CHESTER L R	Pacific Telephone
	SCHOFIELD MARTIN A R	Pacific Telephone
	SCHOFIEID CHESTER L R	Pacific Telephone

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Year	Uses	Source
2006	e FISHER Lais	Haines Company, Inc.
2001	FISHER Luisa	Haines & Company, Inc.
1995	Fisher Luisa	Pacific Bell
1985	Fisher M	Pacific Bell
	Fisher M	Pacific Bell
	Fisher Luisa	Pacific Bell
	Fisher M	Pacific Bell
	Fisher Lynda	Pacific Bell
	Fisher M	Pacific Bell
	Fisher M	Pacific Bell
	Fisher M	Pacific Bell
1980	FISHER LUISA	Pacific Telephone
1970	MAUS CARL P	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	MAUS CARL P	Pacific Telephone
1962	WESTCOTT CARRIE B	Pacific Telephone
1956	THISTLEWHITE EMMA J	Pacific Telephone
1950	THISTLEWHITE EMMA J R	Pacific Telephone
	THISTLEWHITE EMMA J R	Pacific Telephone

11676 WEDDINGTON ST

Year	Uses	Source
2006	NESMITH Jessica	Haines Company, Inc.
2001	NESMITH Jessica	Haines & Company, Inc.
1975	Kozoll J M	Pacific Telephone
1970	WRIGHT HAY JOHN	Pacific Telephone
	WRIGHT HAY JOHN	Pacific Telephone
1962	WRIGHT-HAY JOHN	Pacific Telephone
1956	WRIGHT HAY JOHN	Pacific Telephone
1950	WRIGHT HAY JOHN R	Pacific Telephone
	WRIGHT HAY JOHN R	Pacific Telephone

11677 WEDDINGTON ST

Year	Uses	Source
2006	e STANLEYPa Wca	Haines Company, Inc.
2001	STANLEY Patricia	Haines & Company, Inc.
1995	Oberg J	Pacific Bell
1991	Oberg J	Pacific Bell
	Oberg John	Pacific Bell
	Oberg John & Cynthia	Pacific Bell
1985	Oberg K	Pacific Bell
	Oberg J	Pacific Bell
1980	OBERG J	Pacific Telephone
1970	KING VANCE	Pacific Telephone
	KING VANCE	Pacific Telephone
1956	SEIBERT JORDAN C	Pacific Telephone
	SEIBERT IRMA C	Pacific Telephone

11681 WEDDINGTON ST

Year	Uses	Source
2008	ESTABILLO ALBERTO JR	Cole Information Services
2006	ESTABILLOAlbar It Jr	Haines Company, Inc.
	LENi INE Jess Ica	Haines Company, Inc.

Year	Uses	Source
1985	Paik Lae Oh	Pacific Bell
1980	PAIK LAE OH	Pacific Telephone
1975	Mc Neil Virginia S	Pacific Telephone
	Mc Neil D J Jr	Pacific Telephone
1970	HAYES JAS MRS	Pacific Telephone
	HAYES JAS MRS	Pacific Telephone
1962	SEIBERT JORDAN C	Pacific Telephone

11682 WEDDINGTON ST

Year	Uses	Source
2006	SHRAGGJuse	Haines Company, Inc.
2001	SHRAGG Julie	Haines & Company, Inc.
1985	Kopp Jeffrey K	Pacific Bell
1975	Tiep Brian MD	Pacific Telephone
1970	GIBSON L E	Pacific Telephone
	GIBSON L E	Pacific Telephone
1962	GIBSON L E	Pacific Telephone
1956	GIBSON L E	Pacific Telephone
1950	GIBSON L E R	Pacific Telephone
	GIBSON L E R	Pacific Telephone

11684 WEDDINGTON ST

Year	Uses	Source
2001	LY Khoa	Haines & Company, Inc.
1956	BAILEY MARJORIE	Pacific Telephone
1950	LAWRENCE LARRY W R	Pacific Telephone
	LAWRENCE LARRY W R	Pacific Telephone

11685 WEDDINGTON ST

Year	Uses	Source
2006	o WESTC	Haines Company, Inc.
1970	TAYLOR LEILA D	Pacific Telephone
	TAYLOR LEILA D	Pacific Telephone
1962	JACOBSON JULIUS	Pacific Telephone
1956	JACOBSON JULIUS	Pacific Telephone
1950	ROSS ARTHUR O R	Pacific Telephone
	ROSS ARTHUR O R	Pacific Telephone

FINDINGS

11686 WEDDINGTON ST

Year	Uses	Source
1956	BUSICK DONALD D	Pacific Telephone

11687 WEDDINGTON ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1962	SUGARMAN MAX	Pacific Telephone
1956	VAN ITTERSUM ROY R	Pacific Telephone

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Year	Uses	Source
1970	JOHNSON NORMAN L	Pacific Telephone
	JOHNSON NORMAN L	Pacific Telephone
1962	INSKEEP NEVA	Pacific Telephone
1950	RADER GENEVIEVE L R	Pacific Telephone
	RADER GENEVIEVE L R	Pacific Telephone

11689 WEDDINGTON ST

Year	Uses	Source
1970	MARINO ALBERT PAUL	Pacific Telephone
	MARINO ALBERT PAUL	Pacific Telephone
1962	EBERT CLARENCE V	Pacific Telephone
1956	WOOD KAY	Pacific Telephone

11690 WEDDINGTON ST

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1975	Rossow M	Pacific Telephone
	Glass J	Pacific Telephone
1970	OLESON CARL	Pacific Telephone
	OLESON CARL	Pacific Telephone
1962	CLEMENT NAOMI C	Pacific Telephone
1956	FAGIN GRACE	Pacific Telephone
1950	LUCUS ETHEL S R	Pacific Telephone
	LUCUS ETHEL S R	Pacific Telephone

FINDINGS

11691 WEDDINGTON ST

Year	Uses	Source
2006	GOMEZAman Ona	Haines Company, Inc.
2001	XXXX	Haines & Company, Inc.
1962	WEINSTEIN ESACK	Pacific Telephone

11823 WEDDINGTON ST

Year	Uses	Source
2006	CYUNDER HEAD GM TEST ONLY	Haines Company, Inc.
	JAPANESE CAR	Haines Company, Inc.
	SHOP & PAINT	Haines Company, Inc.
	REPAIR	Haines Company, Inc.
	NORTH HLYWDTIRE	Haines Company, Inc.
	& SERVICE R&MAUTOBODY	Haines Company, Inc.
	CAHUENGA	Haines Company, Inc.
	MEXICOAUTO	Haines Company, Inc.

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
5231 Colfax Ave	2006, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1939, 1938, 1937, 1936, 1934, 1933, 1932, 1931, 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
11600 MAGNOLIA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11600 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 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
11600 MAGNOLIA DR	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 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
11600 MAGNOLIA WAY	2013, 2008, 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
11605 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 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
11605 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11605 MAGNOLIA WAY	2013, 2008, 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

FINDINGS

Address Researched	Address Not Identified in Research Source
11606 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11608 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11610 1/2 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11610 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11611 1/2 MAGNOLIA AVE	2013, 2008, 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, 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
11611 1/2 MAGNOLIA TRL	2013, 2008, 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, 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
11611 MAGNOLIA TRL	2013, 2008, 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, 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
11612 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 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
11612 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11613 1/2 MAGNOLIA TRL	2013, 2008, 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, 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
11613 MAGNOLIA TRL	2013, 2008, 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, 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
11614 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11614 MAGNOLIA WAY	2013, 2008, 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
11615 1/2 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11615 MAGNOLIA CIR	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 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
11615 MAGNOLIA TRL	2013, 2008, 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, 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
11616 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 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
11616 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11617 1/2 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11617 MAGNOLIA TRL	2013, 2008, 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, 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
11618 MAGNOLIA AVE	2013, 2008, 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, 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
11618 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 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

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Address Researched	Address Not Identified in Research Source
11618 MAGNOLIA TRL	2013, 2008, 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, 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
11619 1/2 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11620 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11620 MAGNOLIA WAY	2013, 2008, 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
11622 MAGNOLIA	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 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
11622 MAGNOLIA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1966, 1965, 1964, 1963, 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
11622 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11622 MAGNOLIA WAY	2013, 2008, 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
11627 MAGNOLIA	2013, 2008, 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, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11627 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11634 MCCORMICK ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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

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Address Researched	Address Not Identified in Research Source
11634 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11635 1/2 MAGNOLIA BLVD	2013, 2008, 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
11635 1/2 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11635 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 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
11635 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11635 MCCORMICK ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11635 MCCORMICK ST	2013, 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
11637 1/2 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11637 MAGNOLIA BLVD	2013, 2008, 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
11637 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11637 MAGNOLIA WAY	2013, 2008, 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

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Address Researched	Address Not Identified in Research Source
11638 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11639 WEDDINGTON	2013, 2008, 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, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11639 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11640 MAGNOLIA BLVD	2013, 2008, 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, 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
11640 MAGNOLIA TRL	2013, 2008, 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, 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
11640 MCCORMICK ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11640 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11640 WEDDINGTON ST	2013, 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
11641 1/2 MAGNOLIA BLVD	2013, 2008, 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
11641 1/2 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11641 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 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

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Address Researched	Address Not Identified in Research Source
11641 MAGNOLIA TRL	2013, 2008, 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, 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
11641 MAGNOLIA WAY	2013, 2008, 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
11641 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
11641 MCCORMICK ST	2013, 2008, 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
11642 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11643 1/2 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11643 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 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
11643 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11644 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 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
11644 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11644 MAGNOLIA WAY	2013, 2008, 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

FINDINGS

Address Researched	Address Not Identified in Research Source
11645 1/2 MAGNOLIA TRL	2013, 2008, 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, 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
11645 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 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
11645 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11645 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11645 MARGATE 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
11645 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11646 MARGATE ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11646 MCCORMICK ST	2013, 2008, 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, 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
11646 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11647 1/2 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11647 HARTSOOK ST	2013, 2008, 2006, 2004, 2003, 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

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Address Researched	Address Not Identified in Research Source
11647 MAGNOLIA BLVD	2013, 2008, 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
11647 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11647 MAGNOLIA WAY	2013, 2008, 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
11647 MCCORMICK ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11647 MCCORMICK ST	2008, 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
11647 WEDDINGTON ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11649 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11650 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 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
11650 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11650 MAGNOLIA WAY	2013, 2008, 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
11650 MCCORMICK ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 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

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Address Researched	Address Not Identified in Research Source
11650 MCCORMICK ST	2013, 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
11650 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11651 1/2 MAGNOLIA BLVD	2013, 2008, 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
11651 1/2 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11651 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 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
11651 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11651 MAGNOLIA WAY	2013, 2008, 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
11651 MCCORMICK ST	2013, 2008, 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
11652 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 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, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11652 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11652 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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

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Address Researched	Address Not Identified in Research Source
11653 1/2 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11653 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 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
11653 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11653 MAGNOLIA WAY	2013, 2008, 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
11653 WEDDINGTON	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1986, 1985, 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, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11653 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 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
11654 1/2 MAGNOLIA TRL	2013, 2008, 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
11654 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 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, 1934, 1933, 1932, 1931, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11654 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11654 MAGNOLIA WAY	2013, 2008, 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
11655 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 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

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Address Researched	Address Not Identified in Research Source
11655 MAGNOLIA TRL	2013, 2008, 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
11655 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11656 1/2 MAGNOLIA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
11656 1/2 MAGNOLIA BLVD	2013, 2008, 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
11656 1/2 MAGNOLIA TRL	2013, 2008, 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, 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
11656 MAGNOLIA AVE	2013, 2008, 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
11656 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 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
11656 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11656 MAGNOLIA WAY	2013, 2008, 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
11656 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11656 MCCORMICK ST	2013, 2008, 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, 1961, 1960, 1958, 1957, 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

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Address Researched	Address Not Identified in Research Source
11656 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11657 1/2 MAGNOLIA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11657 1/2 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11657 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 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
11657 MAGNOLIA TRL	2013, 2008, 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, 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
11657 MCCORMICK ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
11657 WEDDINGTON	2013, 2008, 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, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11657 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11658 1/2 MAGNOLIA BLVD	2013, 2008, 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
11658 1/2 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11658 1/4 MAGNOLIA BLVD	2013, 2008, 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

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Address Researched	Address Not Identified in Research Source
11658 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 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
11658 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11659 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11660 1/2 MAGNOLIA TRL	2013, 2008, 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, 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
11660 1/4 MAGNOLIA BLVD	2013, 2008, 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
11660 1/4 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11660 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 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
11660 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11660 MAGNOLIA WAY	2013, 2008, 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
11661 1/2 MAGNOLIA BLVD	2013, 2008, 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
11661 MAGNOLIA BLVD	2013, 2008, 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

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Address Researched	Address Not Identified in Research Source
11661 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11661 MAGNOLIA WAY	2013, 2008, 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
11662 MARGATE	2013, 2008, 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, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11662 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
11662 MCCORMICK ST	2013, 2008, 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, 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
11662 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11663 1/2 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11663 MAGNOLIA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11663 MAGNOLIA BLVD	2013, 2008, 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
11663 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11663 MAGNOLIA WAY	2013, 2008, 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

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Address Researched	Address Not Identified in Research Source
11663 MARGATE ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 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
11663 MCCORMICK ST	2013, 2008, 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
11663 WEDDINGTON	2013, 2008, 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, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11663 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11666 MAGNOLIA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11666 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2000, 1999, 1996, 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
11666 MAGNOLIA BLVD	2013, 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
11666 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11666 MAGNOLIA WAY	2013, 2008, 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
11666 MARGATE ST	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11666 MCCORMICK ST	2013, 2008, 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

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Address Researched	Address Not Identified in Research Source
11666 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11667 1/2 MAGNOLIA BLVD	2013, 2008, 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
11667 1/2 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
11667 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 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
11667 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11667 MAGNOLIA WAY	2013, 2008, 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
11667 MCCORMICK ST	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11669 1/2 MAGNOLIA AVE	2013, 2008, 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, 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
11669 1/2 MAGNOLIA BLVD	2013, 2008, 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
11669 1/2 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11669 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 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

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Address Researched	Address Not Identified in Research Source
11669 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11669 MAGNOLIA WAY	2013, 2008, 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
11669 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11670 MAGNOLIA AVE	2013, 2008, 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, 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
11670 MAGNOLIA BLVD	2013, 2008, 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
11671 1/2 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11671 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 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
11671 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11671 MAGNOLIA WAY	2013, 2008, 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
11671 MARGATE	2013, 2008, 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, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11671 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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

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Address Researched	Address Not Identified in Research Source
11671 WEDDINGTON	2013, 2008, 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, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11671 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11672 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 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
11672 MAGNOLIA PL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 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
11672 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11672 MAGNOLIA WAY	2013, 2008, 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
11672 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11672 MCCORMICK ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11672 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11673 1/2 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11673 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2000, 1999, 1996, 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

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Address Researched	Address Not Identified in Research Source
11673 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11673 MCCORMICK ST	2013, 2008, 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
11675 1/2 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11675 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 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
11675 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11675 MAGNOLIA WAY	2013, 2008, 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
11675 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11676 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11676 MCCORMICK ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 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
11676 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11677 1/2 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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

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Address Researched	Address Not Identified in Research Source
11677 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 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
11677 MAGNOLIA TRL	2013, 2008, 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, 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
11677 MCCORMICK ST	2013, 2008, 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
11677 WEDDINGTON	2013, 2008, 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, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11677 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
11678 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2000, 1999, 1996, 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
11678 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11678 MAGNOLIA WAY	2013, 2008, 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
11681 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11681 WEDDINGTON ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11681 WEDDINGTON ST	2013, 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

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Address Researched	Address Not Identified in Research Source
11682 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11682 MCCORMICK ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11682 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11683 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11683 MCCORMICK ST	2013, 2008, 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
11684 MCCORMICK ST	2013, 2008, 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
11684 WEDDINGTON ST	2013, 2008, 2006, 2004, 2003, 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, 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
11685 MAGNOLIA	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 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
11685 MAGNOLIA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 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
11685 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1981, 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
11685 MAGNOLIA BLVD	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

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Address Researched	Address Not Identified in Research Source
11685 MAGNOLIA LN	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 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
11685 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11685 MAGNOLIA WAY	2013, 2008, 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
11685 MCCORMICK ST	2013, 2008, 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
11685 WEDDINGTON ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11686 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11686 WEDDINGTON ST	2013, 2008, 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, 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
11687 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11688 HARTSOOK ST	2013, 2008, 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, 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
11688 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11688 MAGNOLIA BLVD	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

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Address Researched	Address Not Identified in Research Source
11688 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11688 MAGNOLIA WAY	2013, 2008, 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
11688 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11688 WEDDINGTON ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11689 MARGATE ST	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
11689 MCCORMICK ST	2013, 2008, 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
11689 WEDDINGTON ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11690 MARGATE ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11690 MCCORMICK ST	2013, 2008, 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, 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
11690 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11691 MARGATE ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11691 MCCORMICK ST	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11691 WEDDINGTON ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 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
11694 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 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
11694 MAGNOLIA BLVD	2008, 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
11694 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11694 MAGNOLIA WAY	2013, 2008, 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
11699 MAGNOLIA AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11699 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 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
11699 MAGNOLIA BLVD	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
11699 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11700 MAGNOLIA BLVD	2013, 2008, 2004, 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

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Address Researched	Address Not Identified in Research Source
11700 MAGNOLIA BLVD	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
11700 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11700 MAGNOLIA WAY	2013, 2008, 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
11710 HARTSOOK ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11712 HARTSOOK ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 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
11714 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 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
11714 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11716 MAGNOLIA AVE	2013, 2008, 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, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11720 1/2 MAGNOLIA TRL	2013, 2008, 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, 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
11720 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 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
11720 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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

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Address Researched	Address Not Identified in Research Source
11720 MAGNOLIA WAY	2013, 2008, 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
11721 1/2 HARTSOOK ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
11721 HARTSOOK ST	2013, 2008, 2004, 2003, 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
11722 1/2 MAGNOLIA TRL	2013, 2008, 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, 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
11722 HARTSOOK ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11722 MAGNOLIA AVE	2013, 2008, 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, 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
11722 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 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
11722 MAGNOLIA TRL	2013, 2008, 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, 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
11722 MAGNOLIA WAY	2013, 2008, 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
11723 1/2 HARTSOOK ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
11723 HARTSOOK	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 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

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Address Researched	Address Not Identified in Research Source
11723 HARTSOOK ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 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
11724 1/2 MAGNOLIA TRL	2013, 2008, 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, 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
11724 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 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
11724 MAGNOLIA TER	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 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
11724 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11726 1/2 MAGNOLIA BLVD	2013, 2008, 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
11726 1/2 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11726 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 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
11726 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11726 MAGNOLIA WAY	2013, 2008, 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
11728 HARTSOOK ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11729 HARTSOOK ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 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
11730 1/2 MAGNOLIA BLVD	2013, 2008, 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
11730 1/2 MAGNOLIA TRL	2013, 2008, 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, 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
11730 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 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
11730 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11730 MAGNOLIA WAY	2013, 2008, 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
11732 1/2 MAGNOLIA BLVD	2013, 2008, 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
11732 1/2 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11732 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 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
11732 MAGNOLIA CIR	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 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
11732 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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

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Address Researched	Address Not Identified in Research Source
11732 MAGNOLIA WAY	2013, 2008, 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
11734 HARTSOOK ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11734 MAGNOLIA TER	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 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
11737 HARTSOOK ST	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11738 MAGNOLIA AVE	2013, 2008, 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, 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
11738 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 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, 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
11738 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11738 MAGNOLIA WAY	2013, 2008, 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
11740 HARTSOOK ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
11742 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 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
11743 HARTSOOK ST	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 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

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Address Researched	Address Not Identified in Research Source
11744 1/2 MAGNOLIA BLVD	2013, 2008, 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
11744 1/2 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11744 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 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
11744 MAGNOLIA TRL	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
11744 MAGNOLIA WAY	2013, 2008, 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
11746 HARTSOOK ST	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11746 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 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, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11746 MAGNOLIA BLVD	2013, 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
11746 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
11748 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 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
11748 MAGNOLIA TRL	2013, 2008, 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, 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

FINDINGS

Address Researched	Address Not Identified in Research Source
11750 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 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
11750 MAGNOLIA TRL	2013, 2008, 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
11752 HARTSOOK ST	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1957, 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
11752 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 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, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11752 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11752 MAGNOLIA WAY	2013, 2008, 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
11753 HARTSOOK ST	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11754 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 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, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11754 MAGNOLIA TRL	2013, 2008, 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, 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
11756 MAGNOLIA BLVD	2013, 2008, 2006, 2004, 2003, 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
11756 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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

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Address Researched	Address Not Identified in Research Source
11756 MAGNOLIA WAY	2013, 2008, 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
11758 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 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, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11758 MAGNOLIA TRL	2013, 2008, 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, 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
11760 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 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
11760 MAGNOLIA WAY	2013, 2008, 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
11762 MAGNOLIA BLVD	2013, 2008, 2004, 2003, 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
11762 MAGNOLIA TRL	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
11801 MAGNOLIA TRL	2013, 2008, 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, 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
11809 W Magnolia Blvd	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 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
11815 W Magnolia Blvd	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11816 Chandler Blvd	2013, 2008, 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

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Address Researched	Address Not Identified in Research Source
11820 Chandler Blvd	2013, 2008, 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
11821 W Magnolia Blvd	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11823 WEDDINGTON ST	2013, 2008, 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
11825 W Magnolia Blvd	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
11839 W Magnolia Blvd	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1972, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
11855 W Magnolia Blvd	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1976, 1972, 1971, 1969, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5131 COLFAX AVE	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5131 COLFAX AVE	2008, 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
5131 COLFAX CT	2013, 2008, 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
5132 COLFAX CT	2013, 2008, 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
5133 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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

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Address Researched	Address Not Identified in Research Source
5133 COLFAX CT	2013, 2008, 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
5135 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5135 COLFAX CT	2013, 2008, 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
5137 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
5137 COLFAX CT	2013, 2008, 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
5139 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5139 COLFAX CT	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 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
5140 COLFAX AVE	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5140 COLFAX 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
5141 COLFAX 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
5141 COLFAX AVE	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
5141 COLFAX CT	2013, 2008, 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
5142 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5143 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
5144 COLFAX AVE	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
5144 COLFAX 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
5144 COLFAX CT	2013, 2008, 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, 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
5145 COLFAX AVE	2013, 2008, 2004, 2003, 2001, 2000, 1999, 1996, 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
5145 COLFAX 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
5146 1/2 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5146 COLFAX	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 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
5146 COLFAX AVE	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
5146 COLFAX 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
5146 COLFAX CT	2013, 2008, 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
5147 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
5148 COLFAX AVE	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1991, 1990, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5148 COLFAX AVE	2013, 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
5149 1/2 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5149 COLFAX AVE	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
5150 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5150 COLFAX 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
5150 COLFAX CT	2013, 2008, 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
5154 COLFAX AVE	2013, 2008, 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, 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
5159 COLFAX AVE	2013, 2008, 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
5212 COLFAX AVE	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5212 COLFAX 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
5212 COLFAX CT	2013, 2008, 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
5214 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 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
5216 1/2 IRVINE AVE	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
5216 IRVINE AVE	2013, 2008, 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, 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
5220 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5222 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5222 COLFAX CT	2013, 2008, 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
5224 1/2 IRVINE AVE	2013, 2008, 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

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Address Researched	Address Not Identified in Research Source
5224 IRVINE AVE	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
5224 IRVINE AVE	2013, 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
5228 1/2 IRVINE AVE	2013, 2008, 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, 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
5228 1/4 IRVINE AVE	2013, 2008, 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
5228 IRVINE AVE	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5232 IRVINE AVE	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5232 IRVINE AVE	2013, 2008, 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
5237 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 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
5238 IRVINE AVE	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5240 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
5240 COLFAX CT	2013, 2008, 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

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Address Researched	Address Not Identified in Research Source
5242 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 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
5242 COLFAX CT	2013, 2008, 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
5242 IRVINE AVE	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5242 Radford Ave	2013, 2008, 2004, 2003, 2000, 1999, 1996, 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
5244 IRVINE AVE	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5250 COLFAX AVE	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 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
5250 IRVINE AVE	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
5250 IRVINE AVE	2013, 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
5336 COLFAX AVE	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5252 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5258 IRVINE AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 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
5302 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5302 COLFAX AVE N	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 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
5304 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 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, 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
5306 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5308 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5312 1/2 COLFAX AVE	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
5312 1/4 COLFAX AVE	2013, 2008, 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, 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
5312 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 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
5312 COLFAX CT	2013, 2008, 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
5314 1/2 COLFAX AVE	2013, 2008, 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, 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
5314 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 1995, 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

FINDINGS

Address Researched	Address Not Identified in Research Source
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5316 COLFAX AVE	2013, 2008, 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
5316 COLFAX AVE	2013, 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
5316 COLFAX CT	2013, 2008, 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
5336 1/2 COLFAX AVE	2013, 2008, 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, 1961, 1960, 1958, 1957, 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
5336 COLFAX CT	2013, 2008, 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
5340 1/2 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 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
5340 COLFAX AVE	2013, 2008, 2004, 2003, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 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
5341 COLFAX AVE	2013, 2008, 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, 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
5353 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 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
5354 COLFAX AVE	2013, 2008, 2006, 2004, 2003, 2000, 1999, 1996, 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

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Address Researched	Address Not Identified in Research Source
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5355 Colfax Ave	2013, 2008, 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

NORTH HOLLYWOOD HIGH SCHOOL
5231 Colfax Ave
North Hollywood, CA 91601

Inquiry Number: 4633410.3
June 01, 2016

Certified Sanborn® Map Report

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Shelton, CT 06484
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Certified Sanborn® Map Report

06/01/16

Site Name:

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5231 Colfax Ave
North Hollywood, CA 91601
EDR Inquiry # 4633410.3

Client Name:

E2 Managetech Solutions
5001 Airport Plaza Drive
Long Beach, CA 90815
Contact: KEVIN LIN

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PO # NA

Project LAUSD - N Hollywood HS - Ph. I

Maps Provided:

1969	1927
1966	
1961	
1960	
1958	
1956	
1955	
1948	

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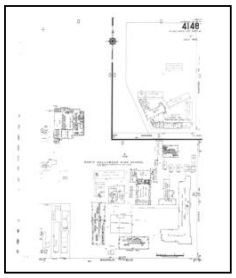
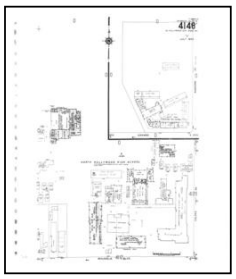


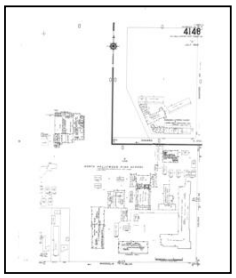
Volume 41, Sheet 4148
1969

1966 Source Sheets



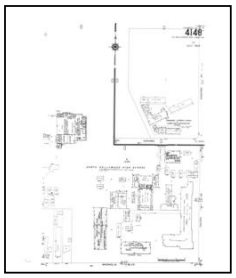
Volume 41, Sheet 4148
1966

1961 Source Sheets



Volume 41, Sheet 4148
1961

1960 Source Sheets



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1960

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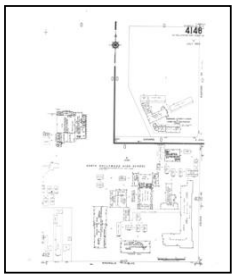
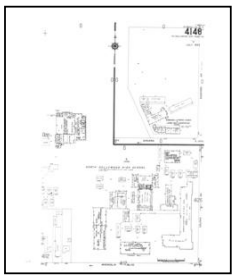


Volume 41, Sheet 4148
1958

1956 Source Sheets



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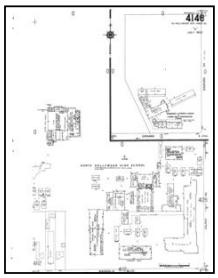
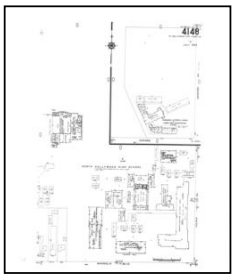
1956

1955 Source Sheets



Volume 41, Sheet 4148
1955



Volume 41, Sheet 4148
1955

1948 Source Sheets



Volume 1, Sheet 16
1948

Sanborn Sheet Key

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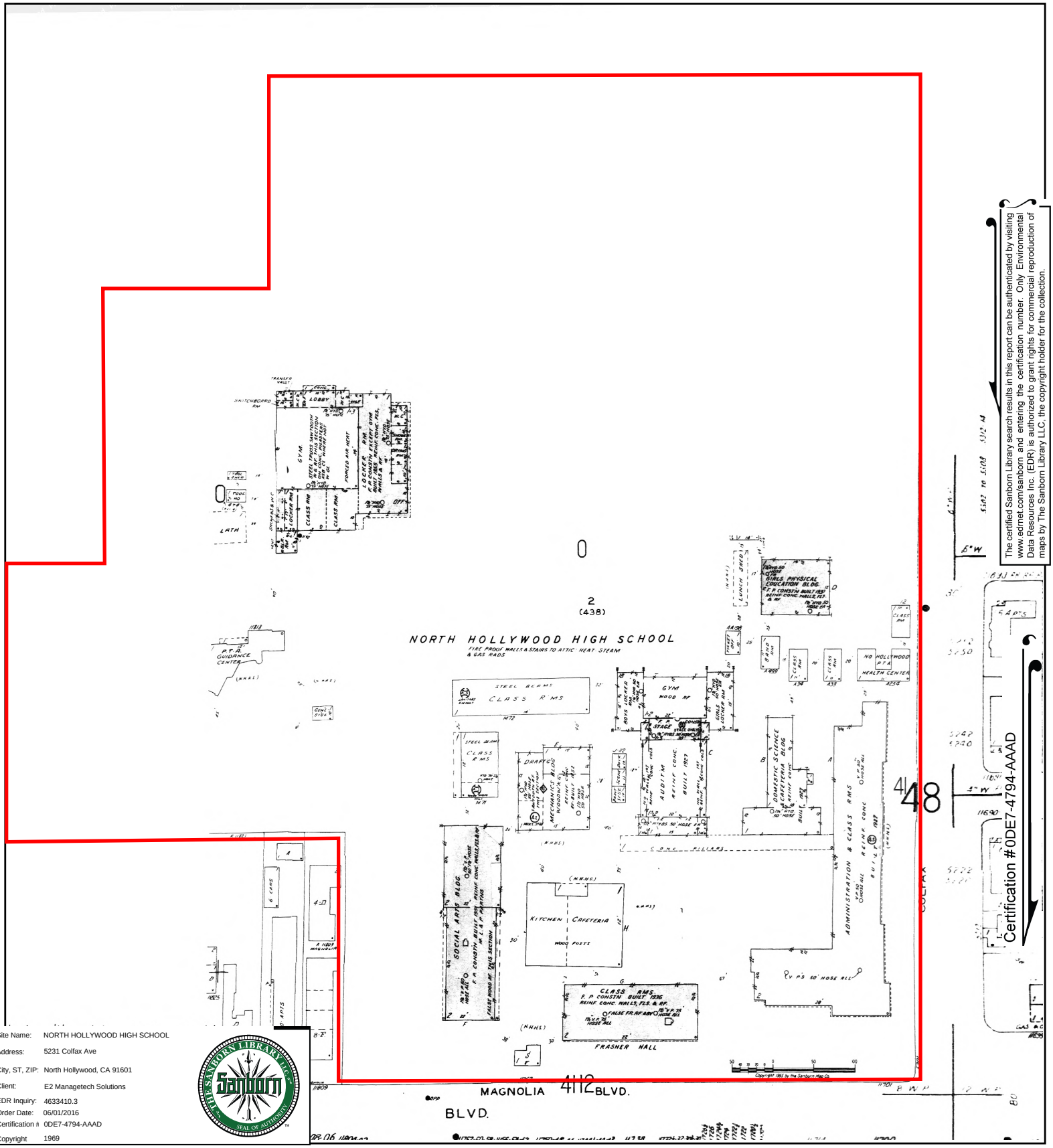
1927 Source Sheets



Volume 1, Sheet 16
1927



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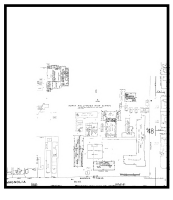

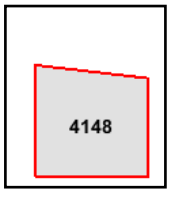

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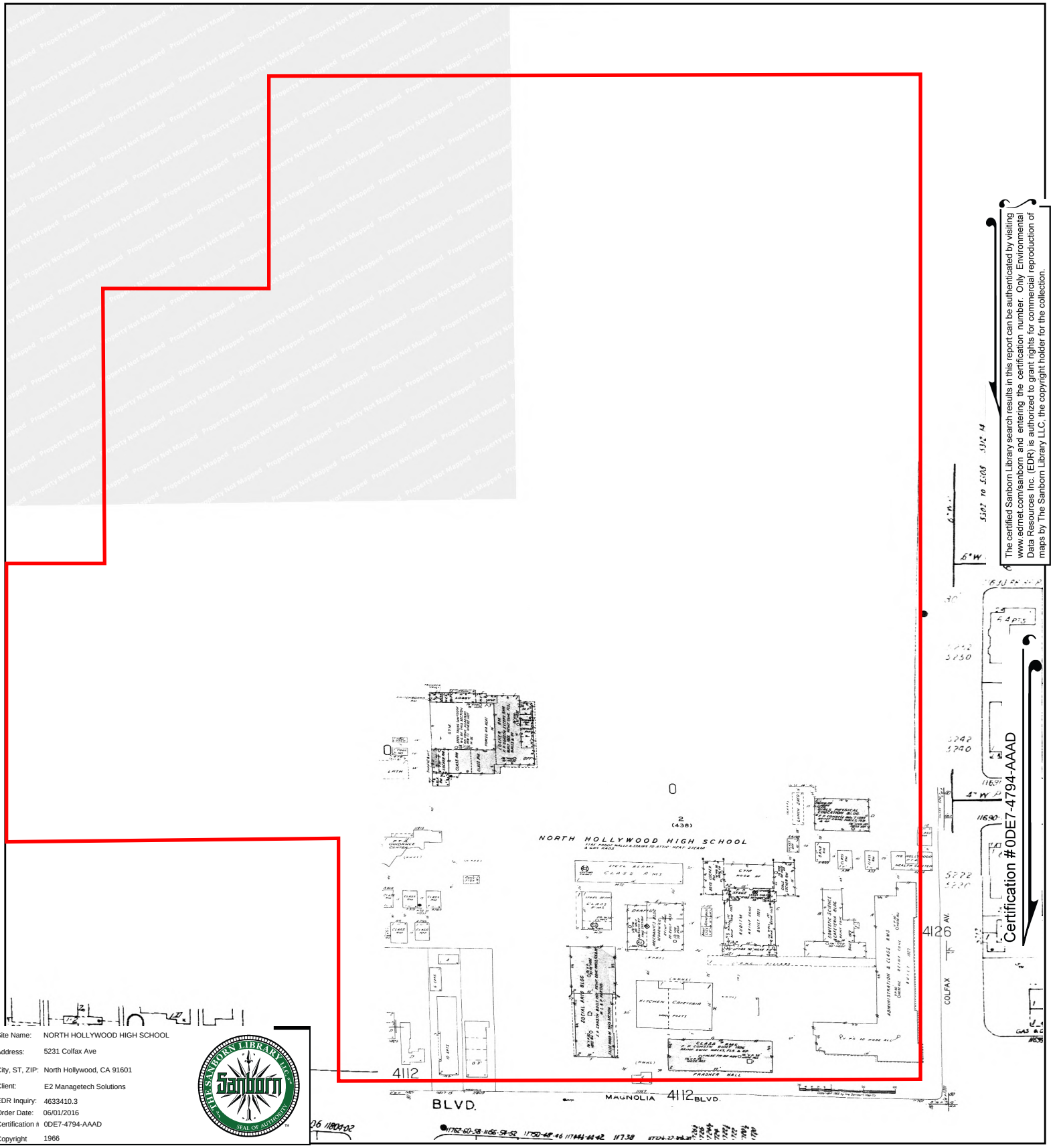

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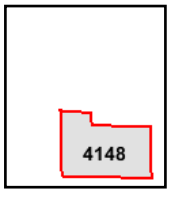

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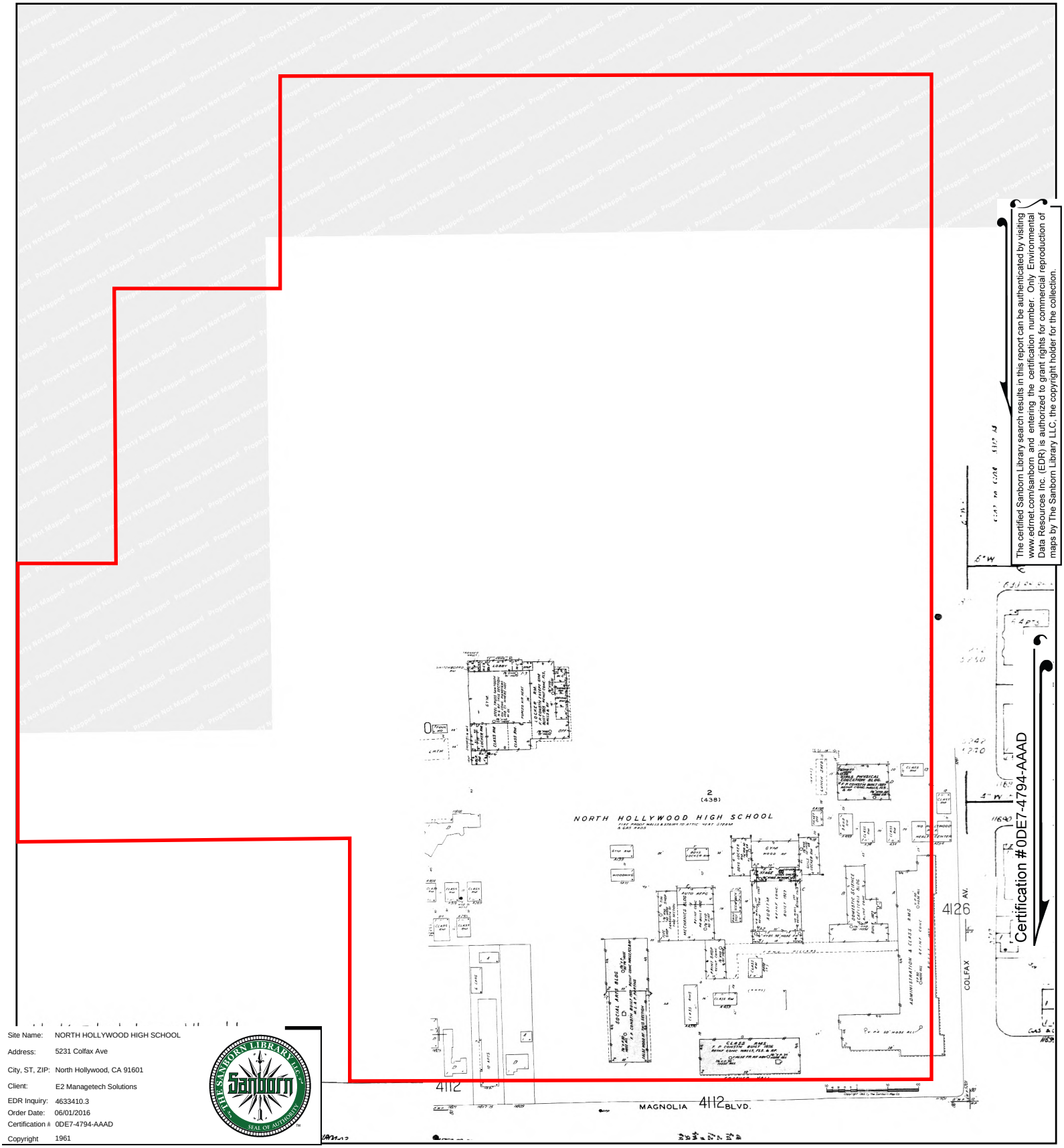

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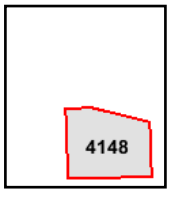

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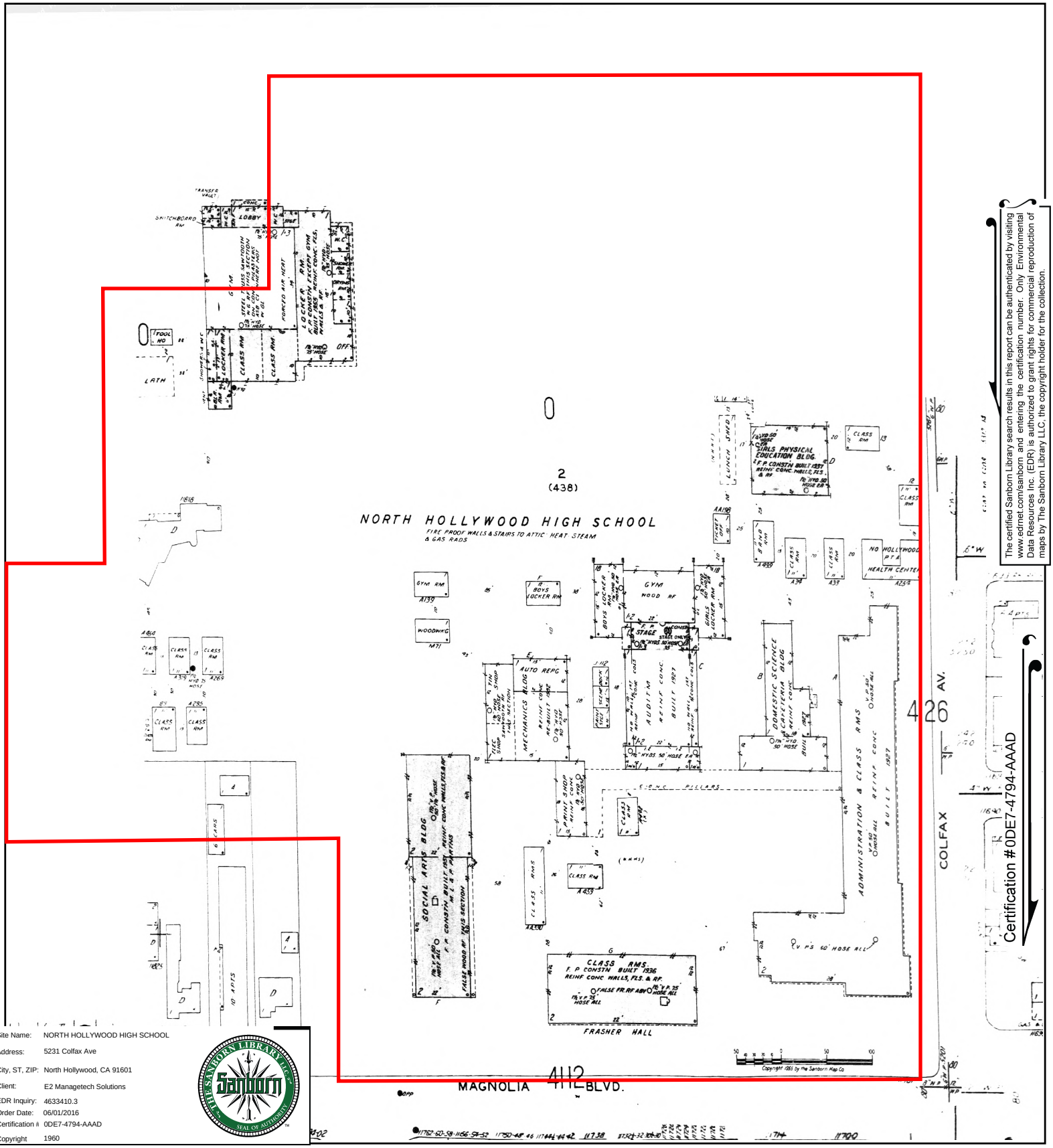

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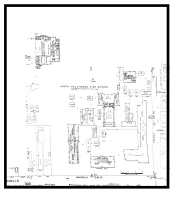

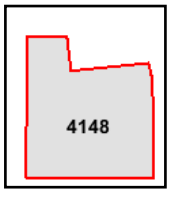

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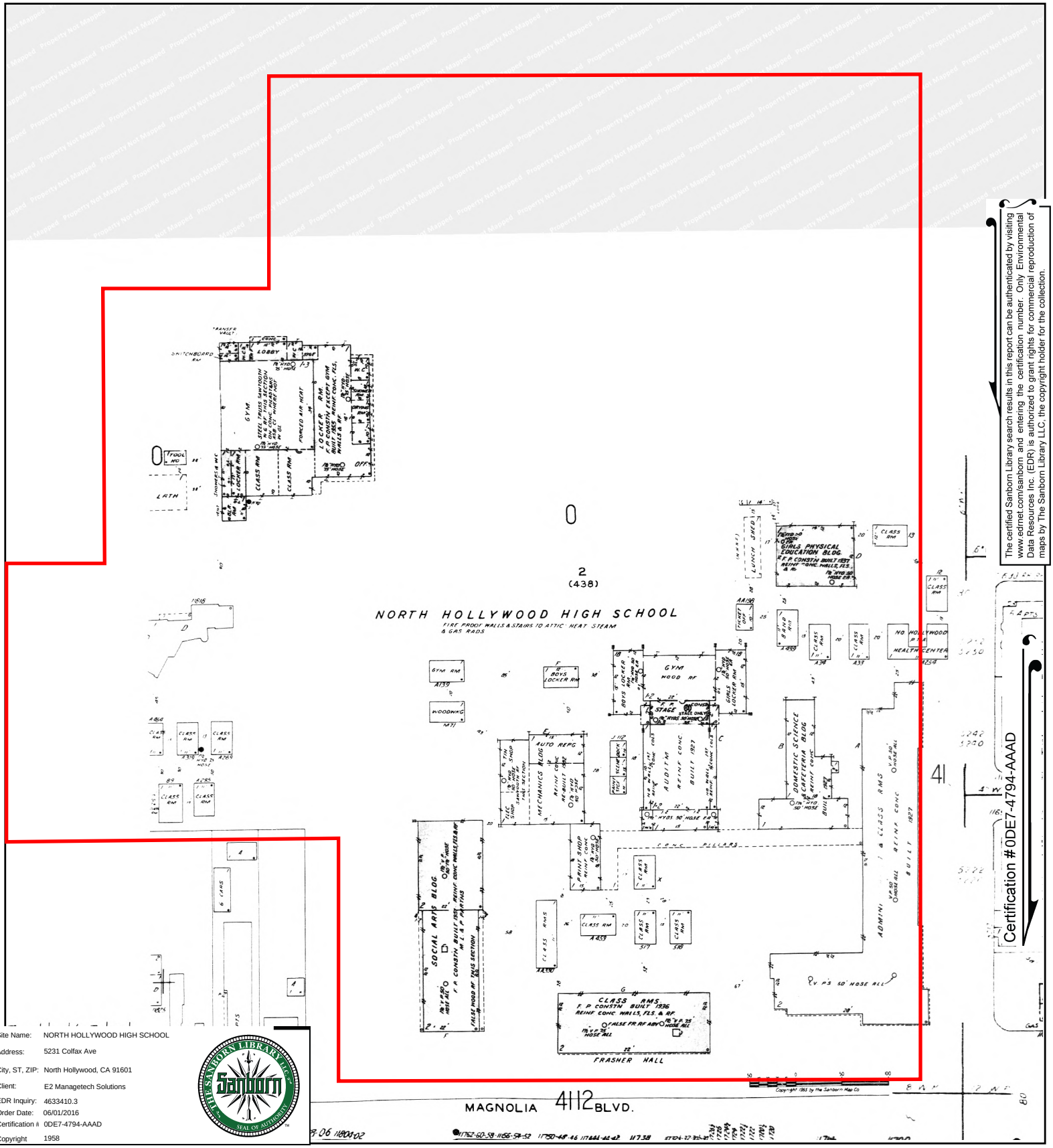

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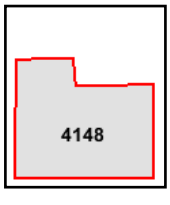

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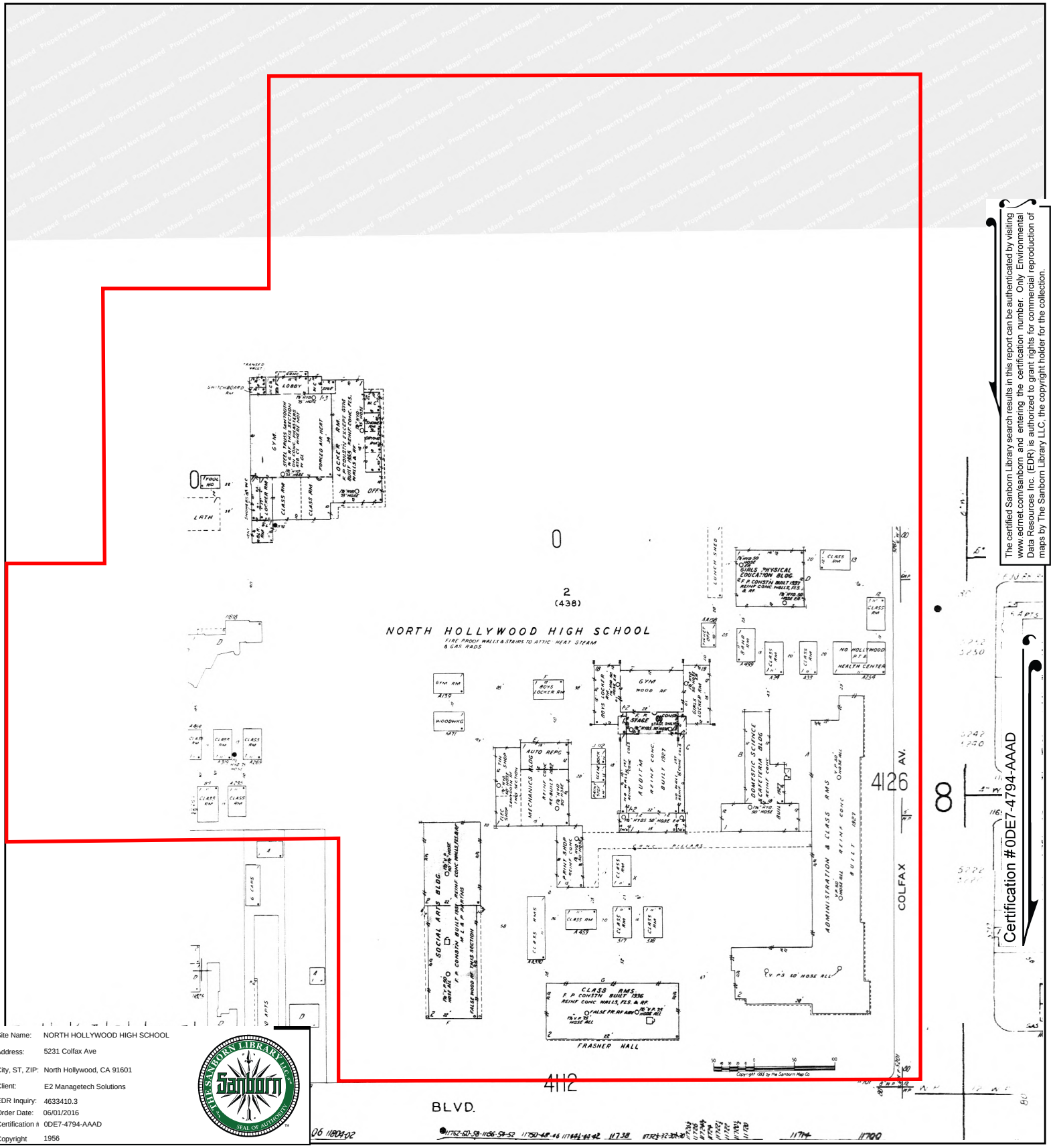

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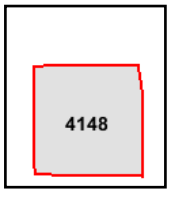

N

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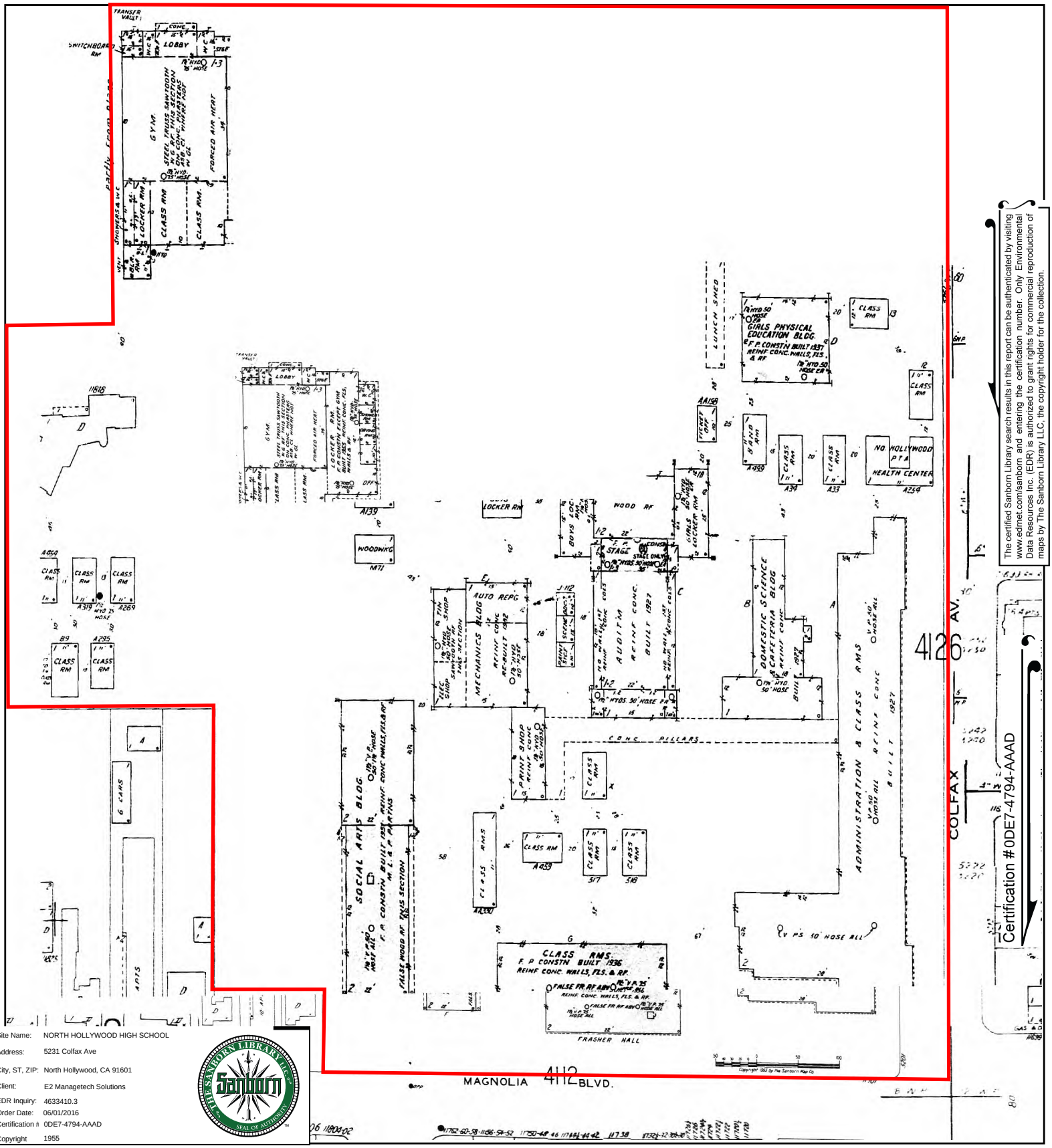
1955



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Client:	E2 Managetech Solutions
EDR Inquiry:	4633410.3
Order Date:	06/01/2016
Certification #:	0DE7-4794-AAAD
Copyright	1955

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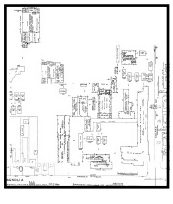

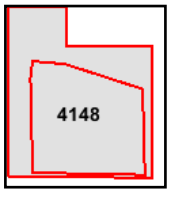

Volume 41, Sheet 4148
Volume 41, Sheet 4148

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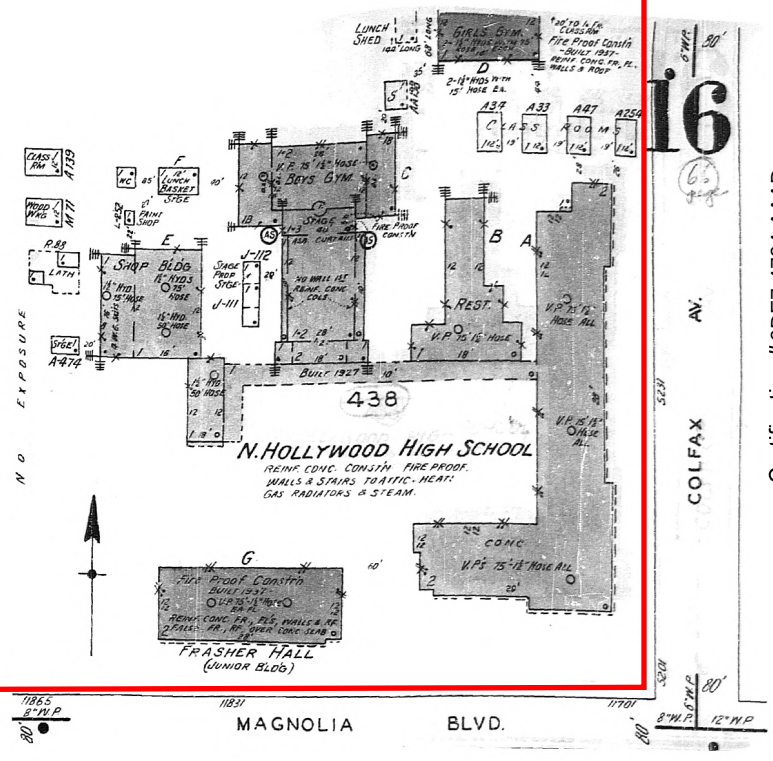

Certification #0DE7-4794-AAAD

Site Name:	NORTH HOLLYWOOD HIGH SCHOOL
Address:	5231 Colfax Ave
City, ST, ZIP:	North Hollywood, CA 91601
Client:	E2 Managetech Solutions
EDR Inquiry:	4633410.3
Order Date:	06/01/2016
Certification #:	0DE7-4794-AAAD
Copyright	1948

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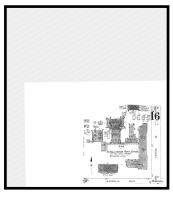

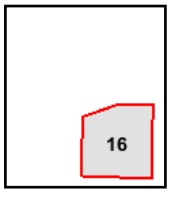

Volume 1, Sheet 16

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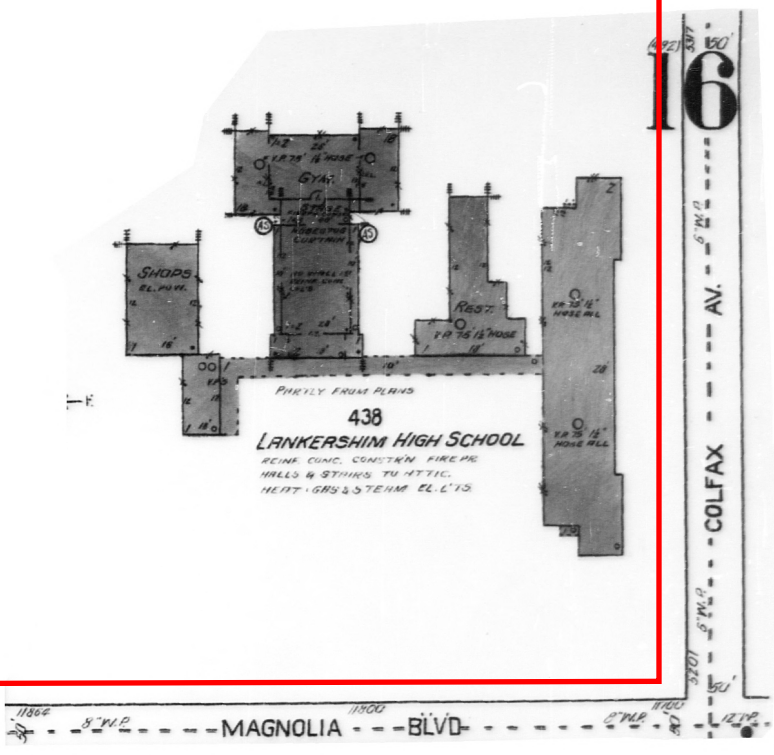

Certification #0DE7-4794-AAAD

Site Name:	NORTH HOLLYWOOD HIGH SCHOOL
Address:	5231 Colfax Ave
City, ST, ZIP:	North Hollywood, CA 91601
Client:	E2 Managetech Solutions
EDR Inquiry:	4633410.3
Order Date:	06/01/2016
Certification #:	0DE7-4794-AAAD
Copyright	1927

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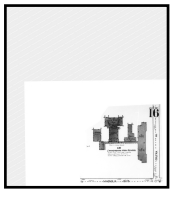

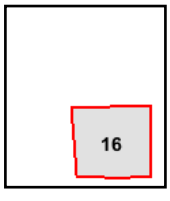

Volume 1, Sheet 16

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N

Appendix E

Environmental Database Search Report

NORTH HOLLYWOOD HIGH SCHOOL
5231 Colfax Ave
North Hollywood, CA 91601

Inquiry Number: 4633410.2s
May 31, 2016

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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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

5231 COLFAX AVE
NORTH HOLLYWOOD, CA 91601

COORDINATES

Latitude (North):	34.1666570 - 34° 9' 59.96''
Longitude (West):	118.3894650 - 118° 23' 22.07''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	371929.5
UTM Y (Meters):	3781312.0
Elevation:	644 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5630789 VAN NUYS, CA
Version Date:	2012
East Map:	5630791 BURBANK, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120428
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
5231 COLFAX AVE
NORTH HOLLYWOOD, CA 91607

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	LAUSD/NORTH HOLLYWOO	5231 COLFAX AVE	HAZNET		TP
A2	LAUSD-NORTH HOLLYWOO	5231 COLFAX AVE	RCRA-SQG, FINDS, ECHO		TP
A3	LA UNI SCH DIST, NO	5231 COLFAX AV	EMI		TP
Reg	SAN FERNANDO VALLEY	NORTH HOLLYWOOD WELL	NPL, SEMS, US ENG CONTROLS, US INST CONTROL,...	Same	4952, 0.938, NNE
4	EARHART CONTINUATION	5355 COLFAX AVE	RCRA-LQG	Higher	20, 0.004, NE
B5		11700 MAGNOLIA BLVD	EDR Hist Auto	Lower	179, 0.034, SSE
B6	TEXACO STATION	11700 MAGNOLIA BLVD	SWEEPS UST, HIST UST, CA FID UST	Lower	179, 0.034, SSE
B7		5150 COLFAX AVE	EDR Hist Cleaner	Lower	263, 0.050, SSE
8		5407 COLFAX AVE	EDR Hist Cleaner	Higher	342, 0.065, NNE
9	OAKWOOD SCHOOL	11600 MAGNOLIA BLVD	RCRA-SQG, FINDS, ECHO	Lower	966, 0.183, ESE
C10	NORTH HOLLYWOOD POLI	11640 BURBANK BLVD	UST	Lower	1138, 0.216, NE
C11	NORTH HOLLYWOOD POLI	11640 BURBANK BLVD	RCRA-SQG, FINDS, ECHO	Lower	1138, 0.216, NE
D12	MOBIL STATION 18L5K	11680 BURBANK BL.	LUST	Higher	1416, 0.268, NNE
D13	MOBIL STATION 18L5K	11680 BURBANK BLVD	LUST, HIST UST	Higher	1416, 0.268, NNE
E14	ARCO #1680	5158 LAUREL CANYON B	LUST, SWEEPS UST, CA FID UST	Higher	1500, 0.284, WSW
E15	ARCO #1680	5158 LAUREL CANYON B	LUST	Higher	1540, 0.292, WSW
F16	RAPID GAS NO. 28	5544 LAUREL CANYON B	LUST, HIST UST	Higher	2062, 0.391, NW
17	FRANK'S CUSTOM LAB	12042 BURBANK BLVD.	SLIC, ENF, WIP	Higher	2105, 0.399, NW
F18	FORMER SHELL SERVICE	5555 LAUREL CANYON B	LUST	Higher	2115, 0.401, NW
19	OCCUPANT	11478 BURBANK BLVD.	SLIC, ENF, WIP	Higher	2366, 0.448, NE
20	NORTH HOLLYWOOD SUPE	5554-68 LANKERSHIM B	ENVIROSTOR	Lower	3062, 0.580, ENE
21	LANKERSHIM ELEMENTAR	11241/11261 MAGNOLIA	ENVIROSTOR, SCH	Lower	3556, 0.673, East
22	OXNARD/VICTORY ELEME	LANKERSHIM BOULEVARD	ENVIROSTOR, SCH	Higher	3908, 0.740, NNE
23	NORTH HOLLYWOOD NEW	LANKERSHIM BOULEVARD	ENVIROSTOR, SCH	Higher	4086, 0.774, NNE

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/NORTH HOLLYWOO 5231 COLFAX AVE NORTH HOLLYWOOD, CA 91601	HAZNET GEPAID: CAD982037855	N/A
LAUSD-NORTH HOLLYWOO 5231 COLFAX AVE NORTH HOLLYWOOD, CA 91601	RCRA-SQG EPA ID:: CAD982037855 FINDS Registry ID:: 110002784595 ECHO	CAD982037855
LA UNI SCH DIST, NO 5231 COLFAX AV NORTH HOLLYWOOD, CA 91601	EMI Facility Id: 5636	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

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

EXECUTIVE SUMMARY

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

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

EXECUTIVE SUMMARY

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler 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

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN	San Gabriel Valley Areas of Concern
US HIST CDL	Delisted National Clandestine Laboratory Register
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

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
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
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER - PCB Transformer Registration Database
RADINFO - Radiation Information Database
HIST FTTS - FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS - Incident and Accident Data
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
UXO - Unexploded Ordnance Sites
DOCKET HWC - Hazardous Waste Compliance Docket Listing
CA BOND EXP. PLAN - Bond Expenditure Plan
Cortese - "Cortese" Hazardous Waste & Substances Sites List
CUPA Listings - CUPA Resources List
DRYCLEANERS - Cleaner Facilities
ENF - Enforcement Action Listing
Financial Assurance - Financial Assurance Information Listing
HIST CORTESE - Hazardous Waste & Substance Site List
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
FUELS PROGRAM - EPA Fuels Program Registered Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP - EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF - Recovered Government Archive Solid Waste Facilities List
RGA LUST - Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

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.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 03/07/2016 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN FERNANDO VALLEY	***NORTH HOLLYWOOD WELL***	***NNE 1/2 - 1 (0.938 mi.)***	***0***	***12***

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 12/09/2015 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
EARHART CONTINUATION	5355 COLFAX AVE	NE 0 - 1/8 (0.004 mi.)	4	84

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 12/09/2015 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OAKWOOD SCHOOL	***11600 MAGNOLIA BLVD***	***ESE 1/8 - 1/4 (0.183 mi.)***	***9***	***88***
NORTH HOLLYWOOD POLI	***11640 BURBANK BLVD***	***NE 1/8 - 1/4 (0.216 mi.)***	***C11***	***90***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 02/01/2016 has revealed that there are 5 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN FERNANDO VALLEY Facility Id: 19990011 Status: Active	***NORTH HOLLYWOOD WELL***	***NNE 1/2 - 1 (0.938 mi.)***	***0***	***12***
OXNARD/VICTORY ELEME Facility Id: 19750096 Status: Inactive - Needs Evaluation	***LANKERSHIM BOULEVARD***	***NNE 1/2 - 1 (0.740 mi.)***	***22***	***118***
NORTH HOLLYWOOD NEW Facility Id: 60000002 Status: No Further Action	***LANKERSHIM BOULEVARD***	***NNE 1/2 - 1 (0.774 mi.)***	***23***	***120***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTH HOLLYWOOD SUPE Facility Id: 19750073 Status: Refer: EPA	5554-68 LANKERSHIM B	ENE 1/2 - 1 (0.580 mi.)	20	112
LANKERSHIM ELEMENTAR Facility Id: 19990040 Status: Certified	***11241/11261 MAGNOLIA***	***E 1/2 - 1 (0.673 mi.)***	***21***	***114***

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 03/14/2016 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
MOBIL STATION 18L5K Status: Completed - Case Closed Global Id: T0603784060	11680 BURBANK BL.	NNE 1/4 - 1/2 (0.268 mi.)	D12	91
MOBIL STATION 18L5K	***11680 BURBANK BLVD***	***NNE 1/4 - 1/2 (0.268 mi.)***	***D13***	***94***

Status: Completed - Case Closed
Global Id: T0603740269

ARCO #1680	***5158 LAUREL CANYON B***	***WSW 1/4 - 1/2 (0.284 mi.)***	***E14***	***96***
Status: Completed - Case Closed Status: Preliminary site assessment underway Global Id: T0603702575 Global ID: T0603708342				
ARCO #1680	5158 LAUREL CANYON B	WSW 1/4 - 1/2 (0.292 mi.)	E15	102
Facility Id: 916040452 Status: Preliminary site assessment underway Global ID: T0603702575				
RAPID GAS NO. 28	***5544 LAUREL CANYON B***	***NW 1/4 - 1/2 (0.391 mi.)***	***F16***	***103***
Status: Completed - Case Closed Global Id: T0603762757				
FORMER SHELL SERVICE	5555 LAUREL CANYON B	NW 1/4 - 1/2 (0.401 mi.)	F18	108
Status: Completed - Case Closed Global Id: T0603744890				

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 03/14/2016 has revealed that there are 2 SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FRANK'S CUSTOM LAB	***12042 BURBANK BLVD.***	***NW 1/4 - 1/2 (0.399 mi.)***	***17***	***105***
Facility Status: Completed - Case Closed Global Id: SL603799060				
OCCUPANT	***11478 BURBANK BLVD.***	***NE 1/4 - 1/2 (0.448 mi.)***	***19***	***110***
Facility Status: Completed - Case Closed Global Id: SL603799057				

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, and dated 03/14/2016 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTH HOLLYWOOD POLI	11640 BURBANK BLVD	NE 1/8 - 1/4 (0.216 mi.)	C10	90
Facility Id: 23721				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

HIST Cal-Sites: Formerly known as ASPIS, this database contains both known and potential hazardous substance sites. The source is the California Department of Toxic Substance Control. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

A review of the HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 HIST Cal-Sites site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN FERNANDO VALLEY	***NORTH HOLLYWOOD WELL***	***NNE 1/2 - 1 (0.938 mi.)***	***0***	***12***

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 is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TEXACO STATION	***11700 MAGNOLIA BLVD***	***SSE 0 - 1/8 (0.034 mi.)***	***B6***	***86***
Comp Number: 7341				

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 is 1 HIST UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TEXACO STATION	***11700 MAGNOLIA BLVD***	***SSE 0 - 1/8 (0.034 mi.)***	***B6***	***86***

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 is 1 CA FID UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TEXACO STATION	***11700 MAGNOLIA BLVD***	***SSE 0 - 1/8 (0.034 mi.)***	***B6***	***86***
Facility Id: 19037437				
Status: I				

Other Ascertainable Records

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 11/25/2013 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN FERNANDO VALLEY	***NORTH HOLLYWOOD WELL***	***NNE 1/2 - 1 (0.938 mi.)***	***0***	***12***

CONSENT: Major Legal settlements that establish responsibility and standards for cleanup at NPL (superfund) sites. Released periodically by U.S. District Courts after settlement by parties to litigation matters.

A review of the CONSENT list, as provided by EDR, and dated 12/31/2014 has revealed that there is 1 CONSENT site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SAN FERNANDO VALLEY	***NORTH HOLLYWOOD WELL***	***NNE 1/2 - 1 (0.938 mi.)***	***0***	***12***

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 is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	11700 MAGNOLIA BLVD	SSE 0 - 1/8 (0.034 mi.)	B5	85

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 2 EDR Hist Cleaner sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	5407 COLFAX AVE	NNE 0 - 1/8 (0.065 mi.)	8	88

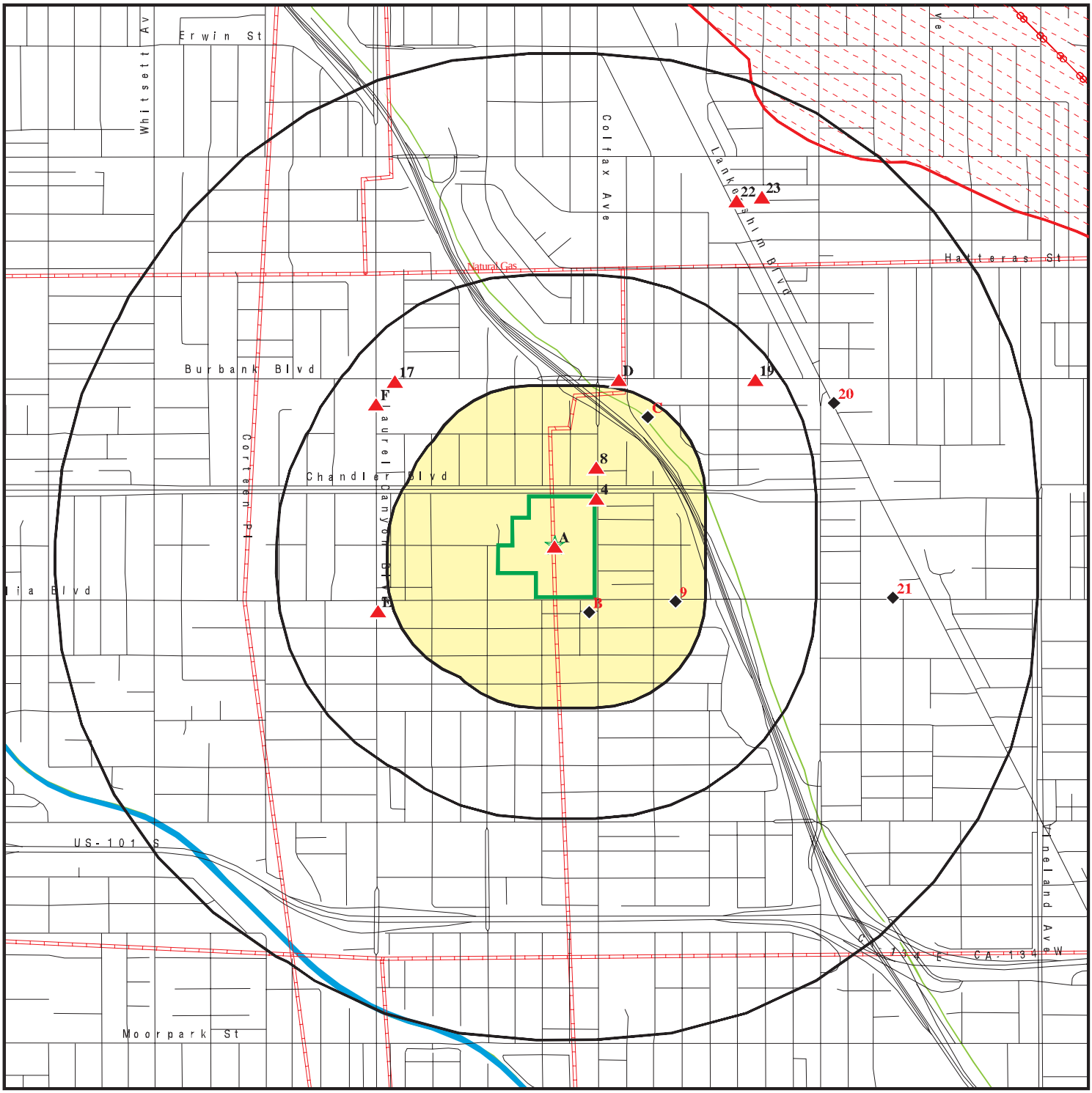
Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	5150 COLFAX AVE	SSE 0 - 1/8 (0.050 mi.)	B7	87

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
MRL MOL NORTH HOLLYWOOD STATION WE	NPDES
NORTH HOLLYWOOD NEW PRIMARY CENTER	ENVIROSTOR, SCH
NORTH HOLLYWOOD ELEMENTARY SCHOOL	ENVIROSTOR, SCH

OVERVIEW MAP - 4633410.2S



0 1/4 1/2 1 Miles

- 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
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 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:	NORTH HOLLYWOOD HIGH SCHOOL	CLIENT:	E2 Managetech Solutions
ADDRESS:	5231 Colfax Ave North Hollywood CA 91601	CONTACT:	KEVIN LIN
		INQUIRY #:	4633410.2s
LAT/LONG:	34.166657 / 118.389465	DATE:	May 31, 2016 5:09 pm

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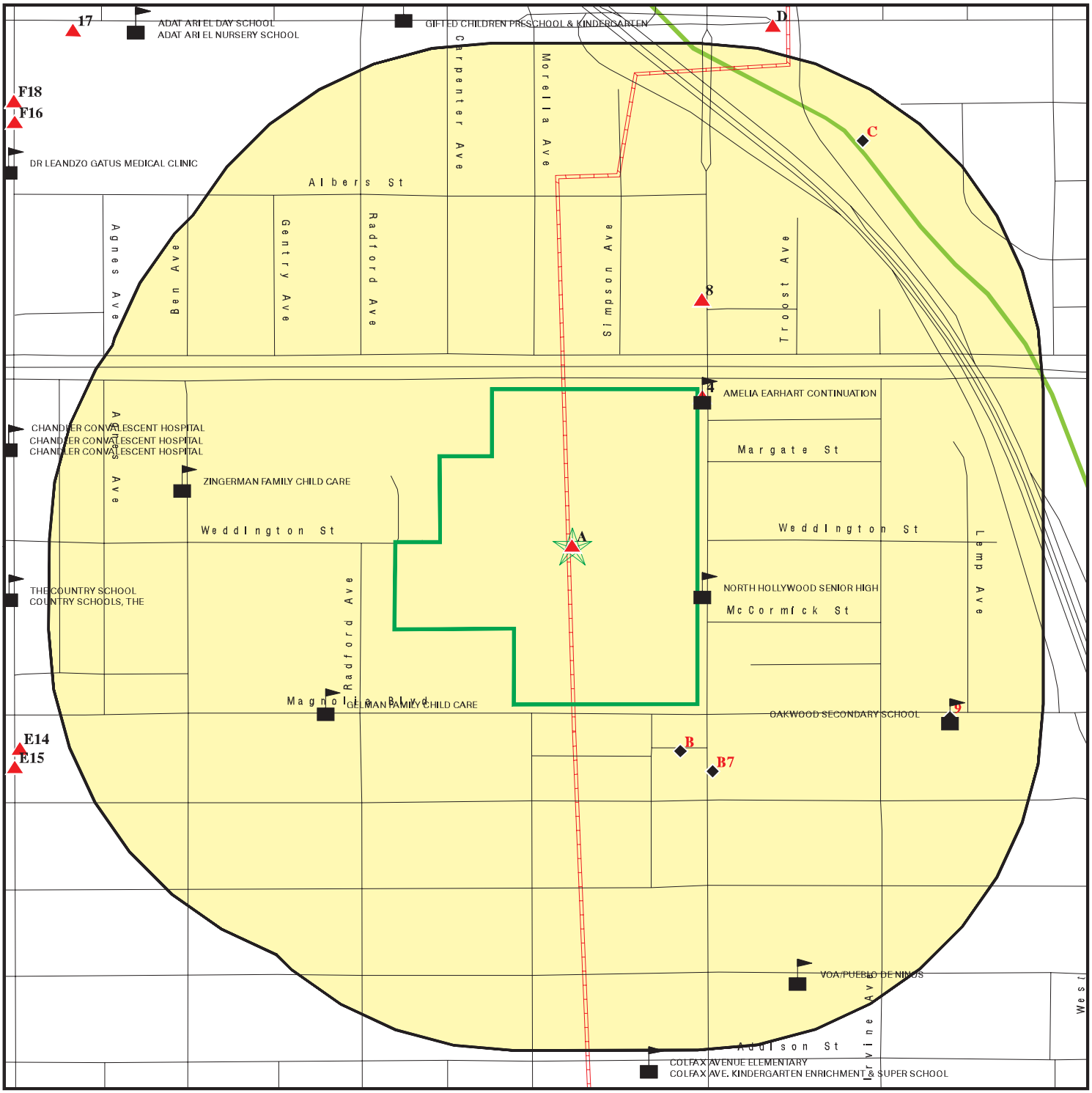
DETAIL MAP - 4633410.2S



0 1/16 1/8 1/4 Miles

- 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
- Indian Reservations BIA
- Pipelines
- 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: NORTH HOLLYWOOD HIGH SCHOOL ADDRESS: 5231 Colfax Ave North Hollywood CA 91601 LAT/LONG: 34.166657 / 118.389465	CLIENT: E2 Managetech Solutions CONTACT: KEVIN LIN INQUIRY #: 4633410.2s DATE: May 31, 2016 5:13 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	1	NR	1
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		1	0	NR	NR	NR	1
RCRA-SQG	0.250	1	0	2	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	0	5	NR	5
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST	0.500		0	0	6	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	2	NR	NR	2
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	1	NR	NR	NR	1
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		0	0	0	NR	NR	0
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
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	1	NR	1
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		1	0	NR	NR	NR	1
HIST UST	0.250		1	0	NR	NR	NR	1
CA FID UST	0.250		1	0	NR	NR	NR	1
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
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CHMIRS	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		0	0	NR	NR	NR	0
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	1	NR	1
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	1	NR	1
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
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
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001	1	0	NR	NR	NR	NR	1
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
HIST CORTESE	0.500		0	0	0	NR	NR	0
LOS ANGELES CO. HMS	0.001		0	NR	NR	NR	NR	0
HWP	1.000		0	0	0	0	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
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
ECHO	0.001	1	0	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		2	NR	NR	NR	NR	2
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 --		5	7	3	8	9	0	32

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **LAUSD/NORTH HOLLYWOOD HIGH SCHOOL** **HAZNET** **S113013160**
Target **5231 COLFAX AVE** **N/A**
Property **NORTH HOLLYWOOD, CA 91601**

Site 1 of 3 in cluster A

Actual:
644 ft.

HAZNET:

envid:	S113013160
Year:	2014
GEPAID:	CAD982037855
Contact:	PAT SCHAENEN
Telephone:	2132413921
Mailing Name:	Not reported
Mailing Address:	514 S BEAUDRY AVE FL 28
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	NMD002208627
TSD County:	99
Waste Category:	Off-specification, aged or surplus organics
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0605
Cat Decode:	Off-specification, aged or surplus organics
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

envid:	S113013160
Year:	2014
GEPAID:	CAD982037855
Contact:	PAT SCHAENEN
Telephone:	2132413921
Mailing Name:	Not reported
Mailing Address:	514 S BEAUDRY AVE FL 28
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	AZD983476680
TSD County:	99
Waste Category:	Liquids with pH <= 2
Disposal Method:	Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.09
Cat Decode:	Liquids with pH <= 2
Method Decode:	Incineration--Thermal Destruction Other Than Use As A Fuel
Facility County:	Los Angeles

envid:	S113013160
Year:	2014
GEPAID:	CAD982037855
Contact:	PAT SCHAENEN
Telephone:	2132413921
Mailing Name:	Not reported
Mailing Address:	514 S BEAUDRY AVE FL 28
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	NMD002208627
TSD County:	99
Waste Category:	Waste oil and mixed oil
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

LAUSD/NORTH HOLLYWOOD HIGH SCHOOL (Continued) **S113013160**

Tons:	0.57
Cat Decode:	Waste oil and mixed oil
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles
envid:	S113013160
Year:	2013
GEPAID:	CAD982037855
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:	CAD009007626
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.4
Cat Decode:	Not reported
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Not reported
envid:	S113013160
Year:	2012
GEPAID:	CAD982037855
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:	AZR000501510
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.147
Cat Decode:	Not reported
Method Decode:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
51 additional CA_HAZNET: record(s) in the EDR Site Report.

A2 Target Property | **LAUSD-NORTH HOLLYWOOD HIGH SCHOOL**
5231 COLFAX AVE
NORTH HOLLYWOOD, CA 91601

RCRA-SQG 1000427671
FINDS CAD982037855
ECHO

Site 2 of 3 in cluster A

Actual: 644 ft.

RCRA-SQG:

Date form received by agency:	01/25/2002
Facility name:	LAUSD-NORTH HOLLYWOOD HIGH SCHOOL
Facility address:	5231 COLFAX AVE NORTH HOLLYWOOD, CA 91601
EPA ID:	CAD982037855
Mailing address:	1449 S SAN PEDRO ST LOS ANGELES, CA 90015
Contact:	SOE AUNG
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	(213) 743-5086
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:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Municipal
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	LA USD
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Municipal
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

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

LAUSD-NORTH HOLLYWOOD HIGH SCHOOL (Continued) **1000427671**

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: 01/25/2002
Site name: LAUSD-NORTH HOLLYWOOD HIGH SCHOOL
Classification: Large Quantity Generator

Date form received by agency: 09/16/1987
Site name: LA USD NORTH HOLLYWOOD HIGH SCHOOL
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002784595

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.

HAZARDOUS WASTE BIENNIAL REPORTER

ECHO:
Envid: 1000427671
Registry ID: 110002784595
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002784595

A3 **LA UNI SCH DIST, NO HOLLYWOOD** **EMI** **S100938760**
Target **5231 COLFAX AV** **N/A**
Property **NORTH HOLLYWOOD, CA 91601**

Site 3 of 3 in cluster A

Actual: 644 ft.

EMI:
Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 5636
Air District Name: SC
SIC Code: 8211

LA UNI SCH DIST, NO HOLLYWOOD (Continued) **S100938760**

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

NPL Region NNE 1/2-1 4952 ft.

SAN FERNANDO VALLEY (AREA 1)
NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601

NPL 1000709322
SEMS CAD980894893
US ENG CONTROLS
US INST CONTROL
ENVIROSTOR
HIST Cal-Sites
ROD
PRP
ICIS
CONSENT
FINDS
Cortese
ECHO

NPL:

EPA ID:	CAD980894893
Cerclis ID:	902251
EPA Region:	9
Federal:	N
Final Date:	1986-06-10 00:00:00
Site Score:	42.240000000000002
Latitude:	34.189999999999998
Longitude:	-118.3514

Category Details:

NPL Status:	Currently on the Final NPL
Category Description:	Depth To Aquifer-<= 10 Feet
Category Value:	1

NPL Status:	Currently on the Final NPL
Category Description:	Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value:	10

Site Details:

Site Name:	SAN FERNANDO VALLEY (AREA 1)
Site Status:	Final
Site Zip:	91601
Site City:	NORTH HOLLYWOOD
Site State:	CA
Federal Site:	No
Site County:	LOS ANGELES
EPA Region:	09
Date Proposed:	10/15/84
Date Deleted:	Not reported
Date Finalized:	06/10/86

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Substance Details:

NPL Status: Currently on the Final NPL
Substance ID: Not reported
Substance: Not reported
CAS #: Not reported
Pathway: Not reported
Scoring: Not reported

NPL Status: Currently on the Final NPL
Substance ID: U044
Substance: CHLOROFORM
CAS #: 67-66-3
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: U210
Substance: TETRACHLOROETHENE
CAS #: 127-18-4
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U211
Substance: CARBON TETRACHLORIDE
CAS #: 56-23-5
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: U228
Substance: TRICHLOROETHYLENE (TCE)
CAS #: 79-01-6
Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:

Conditions at proposal October 15, 1984): San Fernando Valley Area l) is an area of contaminated ground water in the vicinity of the North Hollywood section of the City of Los Angeles, Los Angeles County, California. This area is part of the San Fernando Valley Basin, a natural underground reservoir that represents an important source of drinking water for at least 3 million people in the Los Angeles metropolitan area. The contaminated ground water, which underlies an area of approximately 5,l56 acres, contains trichloroethylene TCE) and perchloroethylene PCE), and to a lesser extent, carbon tetrachloride and chloroform, according to analyses conducted by the California Department of Health Services, as well as numerous local government agencies. The State s recommended drinking water guideline for TCE and PCE 5 and 4 parts per billion respectively) are exceeded in a number of public wells in this area. To alleviate this contamination, wells are eithertaken out of service or blended with water from clean sources to ensure that the public receives water with TCE/PCE concentrations below the State s guidelines. Status June 10, 1986): EPA and the Los Angeles Department of Water and Power are entering into a cooperative agreement for a remedial investigation of the San Fernando Valley Basin and a feasibility study targeted at Area 1, the most contaminated area. The RI is scheduled to begin

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

in early 1986.

Site Status Details:
NPL Status: Final
Proposed Date: 10/15/1984
Final Date: 06/10/1986
Deleted Date: Not reported

Narratives Details:
NPL Name: SAN FERNANDO VALLEY (AREA 1)
City: NORTH HOLLYWOOD
State: CA

SEMS:
Site ID: 902251
EPA ID: CAD980894893
Federal Facility: N
NPL: Currently on the Final NPL
Non NPL Status: Not reported

Following information was gathered from the prior CERCLIS update completed in 10/2013:
Site ID: 0902251
EPA ID: CAD980894893
Facility County: LOS ANGELES
Short Name: SAN FERNANDO VALLEY (AREA
Congressional District: 28
IFMS ID: 0959
SMSA Number: 4480
USGC Hydro Unit: 18070105
Federal Facility: Not a Federal Facility
DMNSN Number: 9336.00000
Site Orphan Flag: N
RCRA ID: Not reported
USGS Quadrangle: Not reported
Site Init By Prog: Not reported
NFRAP Flag: Not reported
Parent ID: Not reported
RST Code: I
EPA Region: 09
Classification: Wells
Site Settings Code: UR
NPL Status: Currently on the Final NPL
DMNSN Unit Code: ACRE
RBRAC Code: Not reported
RResp Fed Agency Code: Not reported
Non NPL Status: Not reported
Non NPL Status Date: / /
Site Fips Code: 06037
CC Concurrence Date: / /
CC Concurrence FY: Not reported
Alias EPA ID: Not reported
Site FUDS Flag: Not reported

CERCLIS Site Contact Name(s):
Contact ID: 13002702.00000

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Contact Name: Zizi Searles
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Contact ID: 13003854.00000
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Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13003858.00000
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Contact Tel: (415) 972-4250
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13004003.00000
Contact Name: Carl Brickner
Contact Tel: Not reported
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13002904.00000
Contact Name: Lisa Hanusiak
Contact Tel: (415) 972-3152
Contact Title: Remedial Project Manager (RPM)
Contact Email: Not reported

Contact ID: 13002785.00000
Contact Name: Kelly Manheimer
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Contact Title: Remedial Project Manager (RPM)
Contact Email: Not reported

Contact ID: 13004928.00000
Contact Name: Jamey Watt
Contact Tel: (415) 972-3175
Contact Title: Remedial Project Manager (RPM)
Contact Email: Not reported

CERCLIS Site Alias Name(s):
Alias ID: 101
Alias Name: SAN FERNANDO VALLEY- N HOLLYWOOD WELLFLD
Alias Address: Not reported
NORTH HOLLYWOOD & BURBANK, CA 91600
Alias ID: 201
Alias Name: NORTH HOLLYWOOD OPERABLE UNIT
Alias Address: Not reported
CA
Alias ID: 301
Alias Name: BURBANK OPERABLE UNIT
Alias Address: Not reported
CA
Alias ID: 302
Alias Name: SAN FERNANDO VALLEY (AREA 1)
Alias Address: NORTH HOLLYWOOD WELLFIELD AREA

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

NORTH HOLLYWOOD, CA 91601
Alias ID: 303
Alias Name: SAN FERNANDO VALLEY (AREA 1)
Alias Address: NORTH HOLLYWOOD WELLFIELD AREA
LOS ANGELES, CA 91601
Alias ID: 201
Alias ID: 301
Alias Comments: OPERABLE UNIT 1* BURBANK WELL FIELD IN VICINITY OF BURBANK AIRPORT & FACILITY. *
OPERABLE UNIT 2. *
BURBANK/LOCKHEED OPERABLE UNIT.

Site Description: The North Hollywood-Burbank Well Field is located within the North Hollywood National Priorities List (NPL) Site, which is one of four NPL sites in the San Fernando Valley. It is also located in the San Fernando Valley Groundwater Basin. The sites were proposed for inclusion on the NPL because of the discovery of trichloroethylene and other volatile organic contaminants (VOCs) in the groundwater. The San Fernando Valley Groundwater Basin comprises 112,000 acres of valley fill situated among the Coastal Ranges within the Los Angeles metropolitan area. The area is used for residential, commercial, and industrial purposes. Groundwater from the basin is distributed by various municipalities and water districts to the residents of the metropolitan area. The Los Angeles Department of Water and Power (DWP) operates the North Hollywood-Burbank Well Field to provide drinking water to the residents of the City of Los Angeles, located to the south of the San Fernando Valley. The San Fernando Groundwater Basin can provide drinking water for approximately 500,000 people residing in the San Fernando Valley and Los Angeles. In times of water shortages, the groundwater shortage can be drawn upon to supply about one million people. It is also an important source of water for the Cities of Burbank, Glendale, and San Fernando. The North Hollywood Operable Unit (NHOU) is one of two geographically-defined operable units within the San Fernando Valley (SFV) (Area 1) Superfund Site. The NHOU comprises approximately 4 square miles of contaminated groundwater underlying an area of mixed industrial, commercial, and residential land use in the community of North Hollywood (a district of the City of Los Angeles). The NHOU is approximately 15 miles north of downtown Los Angeles and immediately west of the City of Burbank, and has approximate Site boundaries of Sun Valley and Interstate 5 to the north, State Highway 170 and Lankershim Boulevard to the west, the Burbank Airport to the east, and Burbank Boulevard to the south. The EPA is the lead agency for the current and planned future groundwater remedial activities at the NHOU. The EPA's response activities at the NHOU are and have been conducted under the authority established in the federal Superfund law, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, 42 U.S.C. Section 9601 et seq. The lead state agency is the California Department of Toxic Substances Control (DTSC). The Los Angeles Regional Water Quality Control Board (RWQCB) has provided and continues to provide substantial support, particularly with the investigation and cleanup of sources of contamination in the SFV. The expected source of cleanup monies for the NHOU is an enforcement settlement with the Potentially Responsible Parties (PRPs). Prior to World War II, most land in the SFV was occupied by farms, orchards, and ranchland. By 1949, after the war, nearly all the land in Burbank and North Hollywood was occupied by housing developments, industrial facilities, retail establishments, and the Burbank Airport. Accompanying these land use changes in the 1940s was a substantial increase in population and groundwater withdrawals from the SFV. In the 1950s, the North Hollywood, Erwin, Whitnall, and Verdugo Well Fields were constructed by the Los Angeles Department of Water and Power (LADWP) in the North Hollywood area to meet the increasing demand for water. In 1968, groundwater withdrawals from the SFV were

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

reduced to achieve "safe yield" from the basin, and more surface water was imported to the basin from external sources. In 1979, industrial contamination was found in groundwater in the San Gabriel Valley (to the east of the SFV), prompting the California Department of Public Health (CDPH; formerly the California Department of Health Services) to request that all major water providers in the region, including those in the SFV, sample and analyze groundwater for potential industrial contaminants. Trichloroethylene (TCE) and tetrachloroethylene (PCE) were consistently detected in a large number of production wells in the SFV at concentrations greater than Federal and State Maximum Contaminant Levels (MCLs) for drinking water. TCE and PCE were widely used in the San Fernando Valley starting in the 1940s for dry cleaning and for degreasing machinery. Disposal was not well regulated at that time, and releases volatile organic compound (VOC)-contaminated groundwater that extends from the NHOU to the southeast. To replace wells within the NHOU area contaminated by TCE and PCE, and to provide more operational flexibility for groundwater recharge and pumping in the SFV, LADWP constructed the Rinaldi-Toluca Well Field in 1988 and 1989, and the Tujunga Well Field in 1993. Based on the significant levels of groundwater contamination present in the SFV and the impact of that contamination on numerous municipal water supply wells, EPA added four SFV Sites to the National Priorities List (NPL) in 1986 and defined them as areas of regional groundwater contamination. Three of the four Sites (Areas 1, 2 and 4) are contiguous areas within whose boundaries are well fields that serve the water supply systems for the cities of Los Angeles, Burbank and Glendale. There is a large, continuous plume of groundwater contamination that runs through these three Sites. The fourth Site, Area 3, lies in the Verdugo basin, a geographically separate area of the eastern San Fernando Valley. In the SFV Area 1 Site, located at the upgradient end of the contaminated groundwater plume, the selection and implementation of the initial interim remedy - the Existing NHOU Extraction and Treatment System - for the LADWP's North Hollywood well field was given fast-track status because of the potential for contamination to spread to other well fields and areas of uncontaminated groundwater. In 1986, LADWP completed the Operable Unit Feasibility Study for the North Hollywood Well Field Area of the North Hollywood-Burbank NPL Site, which was the basis for selection and implementation of the Existing NHOU Extraction and Treatment System. The 1987 Record of Decision (ROD) for the Site selected the Existing NHOU Extraction and Treatment System as an interim groundwater containment remedy. In 1989, LADWP constructed the Existing NHOU Extraction and Treatment System with financial support from EPA. The Existing NHOU Extraction and Treatment System consists of eight groundwater extraction wells (NHE-1 through NHE-8), an air-stripping treatment system to remove VOCs from the extracted groundwater, activated carbon filters to remove VOCs from the air stream, and ancillary equipment. The treated groundwater is discharged into an LADWP blending facility where it is combined with water from other sources before entering the LADWP water supply system. The Existing NHOU Extraction and Treatment System commenced operation in December 1989 and remains in operation today. In 1989, EPA issued a ROD for the Burbank OU (BOU) of the SFV Area 1 Site. That ROD also selected an interim remedy (containment) for the VOC-contaminated groundwater within the Burbank area, where ten of the city's water supply wells had been shut down due to contamination. The BOU remedy, which provides treated water for the City of Burbank's water supply system, began operation in 1996 and remains in operation to this day. OU01 1991 ESD: In June 1986, the United States Environmental Protection Agency (EPA) evaluated the threat posed by a number of well fields within the San Fernando and Verdugo Groundwater Basins, and designated them as National Priorities List (NPL) hazardous substance sites. Industrial chemicals had been detected in groundwater from these areas. Although four sites in the basin were listed on the NPL, EPA and

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

DWP are managing the investigation of the four sites and the adjacent area as a single project consistent with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) Section 104(d)(4). The San Fernando Valley Groundwater Basin (SFVGB) has historically been, and continues to be, an important source of drinking water for the Los Angeles metropolitan area, including the unincorporated area of La Cresenta, and the cities of Burbank, Glendale, and San Fernando. The groundwater basin provides these communities with enough water to serve approximately 600,000 residents. Groundwater from the SFVGB is used for residential, commercial, and industrial purposes, and is especially important during years of drought. The groundwater that has become contaminated is difficult to replace. The current water supply from surface water may not always be available in the future because of periodic drought conditions and state and federal water rights issues. The Burbank Operable Unit (OU) was developed to address the areal extent of groundwater contamination that is presently generally located in the area of the Burbank Well Field and including any areas to which the groundwater contamination migrates. The Site is part of the SFV Area 1 (North Hollywood) NPL site and includes an area beyond that originally designated as SFV Area 1. The City of Burbank's production wells have been shut down because the water they produce contained trichloroethylene (TCE) and perchloroethylene (PCE) in concentrations exceeding state and federal maximum contaminant levels (MCLs). Consequently, the City of Burbank now purchases 100 percent of its water, which is imported supply, from the Metropolitan Water District of Southern California (MWD). On June 30, 1989, the U.S. Environmental Protection Agency (EPA) signed a Record of Decision (ROD) for the San Fernando Valley (SFV) Area 1 - Burbank Operable Unit (Burbank OU). The Burbank OU is the second OU, but is named OU03 at the SFV Area 1 NPL site. The purpose of this Explanation of Significant Differences (ESD) is to explain the significant differences between the interim remedial action originally selected in the 1989 ROD and the interim remedy which will be implemented at the Site. EPA is issuing this ESD in order to take into account technical data received after the ROD was signed in June of 1989 and to clarify any ambiguities regarding the selected remedy. An Explanation of Significant Differences addressing OU01 the San Fernando Site was completed in November, 1990. Operable Unit 3: The following gives a brief background of the Burbank Operable unit (OU) and a short summary of the remedy selected in the Record of Decision (ROD) and modified by Explanation of Significant Differences (ESD) 1. Further background information can be found in the ROD (dated June 30, 1989), and in ESD1 (dated November 20, 1990), as well as in other documents in the Burbank OU Administrative Record. In June 1986, the U.S. Environmental Protection Agency (EPA) evaluated the threat posed by groundwater contamination at a number of water supply wellfields within the San Fernando Valley and Verdugo groundwater basins. The chief contaminants of concern are trichloroethylene (TCE) and perchloroethylene (PCE). As a result of its investigation, EPA designated four wellfield areas as National Priorities List (NPL) sites. EPA is managing the four sites as a single project consistent with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 104(d)(4). The San Fernando Valley Groundwater Basin has historically been an important source of drinking water for the Los Angeles metropolitan area, including the City of Burbank. The groundwater basin provides enough water to serve approximately 600,000 residents. Groundwater extracted from the basin is especially important during years of drought. Due to contamination by volatile organic chemicals (VOC), including TCE and PCE, beneficial use of the groundwater resource has been partially lost. Surface water supplies have replaced the lost resource, but are costly, and may not be available in the future due to periodic drought conditions and the potential for changing water rights policy. The Burbank OU is located within the San Fernando Valley

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

groundwater basin and encompasses wellfields which were operated by the City of Burbank prior to being shut down as a result of contamination. The Burbank OU was specifically developed to address this areal extent of groundwater contamination. The City of Burbank's production wells have been shut down since the early 1980s because of the presence of TCE and PCE in concentrations exceeding federal and state Maximum Contaminant Levels (MCL). Consequently, the city purchases close to one hundred percent of its water from the Metropolitan Water District of Southern California, which supplies surface water imported from outside the San Fernando basin. (The city does operate a granular activated carbon groundwater extraction and treatment plant during parts of the year, but the contribution of this plant toward meeting the overall water demand is small). On June 30, 1989, EPA signed a Record of Decision (ROD) for the San Fernando Valley Area 1 Superfund Site, Burbank Operable Unit OU. On November 21, 1990, EPA signed an Explanation of Significant Differences (ESD1) modifying the interim remedial action selected in the ROD. A second ESD addressing the Burbank Operable Unit (Operable Unit 3) at the San Fernando Valley (Area 1) site was completed in February 1997. In December 1992, a remedial investigation (RI) for the SFV groundwater basin, including installation and subsequent regular monitoring of 84 groundwater wells, was completed under a cooperative agreement between EPA and the LADWP. The RI was conducted to evaluate the groundwater quality throughout the SFV basin and assist in identifying the best treatment method(s) and optimal locations to install groundwater treatment systems to address the SFV groundwater contamination EPA listed the SFV Sites as groundwater only, with the intent to focus on addressing the regional groundwater contamination, with an agreement with the state agencies to address the sources. From the late 1980s to late 1990s, EPA provided funds to RWQCB to conduct assessments of facilities in the SFV to determine the extent of solvent usage and to assess past and current chemical handling, storage, and disposal practices. These investigations were conducted pursuant to RWQCB's Well Investigation Program and resulted in source remediation activities under RWQCB oversight at several facilities within the SFV, including two within the NHOU. Source investigations and remediation activities are currently in progress under the lead of RWQCB and DTSC. In 1993, 1998, 2003, and 2008, EPA conducted five-year reviews (as required by CERCLA) to evaluate the protectiveness of the NHOU interim remedy. The Third NHOU Five-Year Review reported that the TCE and PCE groundwater plume that the remedy was designed to capture was migrating vertically and laterally beyond the remedy's zone of hydraulic control. This conclusion was based largely on EPA's evaluation of the current NHOU groundwater conditions and LADWP findings in the Draft Evaluation of the North Hollywood Operable Unit and Options to Enhance Its Effectiveness. The Final Evaluation of the North Hollywood Operable Unit and Options to Enhance Its Effectiveness also raised concerns regarding detections of total chromium and hexavalent chromium in extraction well NHE-2 of the NHOU interim remedy. Well NHE-2 is located just a short distance from the former Bendix facility, one of the major VOC sources in the NHOU. In July 2006, after a year of unusually high rainfall and rising groundwater levels in the SFV, the total chromium concentration detected at NHOU extraction well NHE-2 began to increase. Chromium was used in the metal plating and aerospace industry (metal fabrication), as well as for corrosion inhibition in industrial cooling towers, from the 1940s through the 1980s. It was also used extensively at the former Bendix facility. In 2007, the elevated concentrations of chromium at well NHE-2 caused total chromium concentrations in the combined NHOU treatment system effluent to exceed 30 micrograms per liter (ug/L) (60 percent of the state MCL). As a result, CDPH advised LADWP to shut down well NHE-2 or divert the water produced by the well to a nonpotable use. Chromium concentrations at this well have subsequently ranged from approximately 280 to 440 ug/L. In addition,

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

1, 4-dioxane was detected at well NHE-2 during 2007 and 2008 at concentrations ranging from 4 to 7 ug/L. There is no MCL for 1, 4-dioxane, but the CDPH notification level for 1, 4-dioxane is 3 ug/L. Extraction well NHE-2 remained shut down until September 2008, when the installation of a wellhead VOC treatment unit and modification of the discharge piping were completed, which allowed this well to return to service. The NHE-2 effluent, which still contains elevated levels of chromium, is currently discharged to the Los Angeles Bureau of Sanitation sewer system. This work was conducted by Honeywell International (a corporate successor to Bendix) as an interim measure, pursuant to a Cleanup and Abatement Order (CAO) from RWQCB that requires Honeywell to clean up the chromium contamination and to restore lost water caused by the shut down of well NHE-2. A long-term wellhead treatment system for well NHE-2, including treatment for chromium and, if necessary, 1,4-dioxane, to meet drinking water standards is expected to be implemented pursuant to the RWQCB CAO prior to the implementation of the NHOU Second Interim Remedy. Following construction and start up of the Existing NHOU Extraction and Treatment System, EPA issued general and special notice letters to PRPs. In 1996 and 1997, EPA reached two separate settlements with PRPs in which the settling parties agreed to pay EPA's past costs and fund operation of the Existing NHOU Extraction and Treatment System for the remainder of its fifteen-year term. In 2008, when the funds collected pursuant to the 1996 and 1997 settlements were close to being exhausted, EPA entered into an administrative order on consent with a number of parties from 1996 and 1997 settlements and issued a unilateral administrative order to the remaining viable parties in order to secure funding to continue operating the Existing NHOU Extraction and Treatment System until the Second Interim Remedy is constructed and operational. In preparation for the selection and implementation of the Second Interim Remedy, EPA has conducted additional PRP search activity. The RWQCB has issued CAOs to two parties in the NHOU. In December 1987, Lockheed was issued a CAO directing it to remediate contaminated soil and groundwater at Plant B-1 (in the BOU) and to complete a comprehensive Site assessment at all of Lockheed's other Burbank Airport facilities, including Plants B5 and C1 (in the NHOU), to determine the sources and extent of soil and groundwater contamination. The RWQCB issued a CAO in February 2003 to Honeywell International, Inc., for VOC and chromium contamination in groundwater at the former Bendix facility in North Hollywood. This CAO was amended in April 2007 to include investigation and mitigation of emerging contaminants at the former Bendix facility and to address elevated chromium concentrations at NHOU extraction well NHE-2. The land use in the SFV Area 1 Site, including the NHOU, consists of mixed residential, industrial, and commercial use. The SFV is fully developed and land uses in the NHOU are not expected to change significantly in the next 20 years or longer. The SFV groundwater basin is an important source of drinking water for the Los Angeles metropolitan area, including the cities of Los Angeles, Glendale, Burbank, and San Fernando. The SFV is located in the Upper Los Angeles River Area (ULARA), which is under adjudicated water rights regulated by the ULARA Watermaster. Through court action in 1975, the City of Los Angeles was granted rights to all groundwater in the San Fernando Basin that is derived from precipitation within ULARA. There are a number of production well fields in the eastern SFV, including six LADWP well fields located in or near the NHOU. The output from the existing NHOU remedy accounts for approximately 1 to 2 percent of LADWP's total extraction from the SFV groundwater basin. The need for drinking water development in the eastern SFV, including the NHOU, is expected to increase over the next 20 years as restrictions on importing water to Southern California increase and imported water becomes more expensive. An Interim ROD addressing Operable Unit 4 was completed in September 2009.

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

CERCLIS Assessment History:

Action Code:	001
Action:	DISCOVERY
Date Started:	/ /
Date Completed:	12/01/83
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	HAZARD RANKING SYSTEM PACKAGE
Date Started:	/ /
Date Completed:	04/01/84
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	SITE INSPECTION
Date Started:	/ /
Date Completed:	04/01/84
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	PRELIMINARY ASSESSMENT
Date Started:	/ /
Date Completed:	04/01/84
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Action:	PROPOSAL TO NATIONAL PRIORITIES LIST
Date Started:	/ /
Date Completed:	10/15/84
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started:	09/30/84
Date Completed:	08/15/85
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	FINAL LISTING ON NATIONAL PRIORITIES LIST
Date Started:	/ /
Date Completed:	06/10/86
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started:	08/16/85
Date Completed:	09/24/87
Priority Level:	Not reported
Operable Unit:	NORTH HOLLYWOOD
Primary Responsibility:	State, Fund Financed
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	REMEDIAL DESIGN
Date Started:	04/01/87
Date Completed:	09/24/87
Priority Level:	Not reported
Operable Unit:	NORTH HOLLYWOOD

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Primary Responsibility: State, Fund Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: RECORD OF DECISION
Date Started: / /
Date Completed: 09/24/87
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: Notice Letters Issued
Date Started: / /
Date Completed: 08/24/88
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: Notice Letters Issued
Date Started: / /
Date Completed: 04/13/89
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 01/15/88
Date Completed: 06/30/89
Priority Level: Not reported
Operable Unit: BURBANK
Primary Responsibility: State, Fund Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	Special Notice Issued
Date Started:	/ /
Date Completed:	06/30/89
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	RECORD OF DECISION
Date Started:	/ /
Date Completed:	06/30/89
Priority Level:	Not reported
Operable Unit:	BURBANK
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	Special Notice Issued
Date Started:	/ /
Date Completed:	05/04/90
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	REMOVAL ASSESSMENT
Date Started:	08/29/90
Date Completed:	08/29/90
Priority Level:	Not reported
Operable Unit:	BURBANK
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	UNILATERAL ADMIN ORDER

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Date Started: / /
Date Completed: 08/30/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: Notice Letters Issued
Date Started: / /
Date Completed: 08/30/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: Explanation Of Significant Differences
Date Started: / /
Date Completed: 11/12/90
Priority Level: Not reported
Operable Unit: BURBANK
Primary Responsibility: Not reported
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: Special Notice Issued
Date Started: / /
Date Completed: 11/20/90
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 05/04/89
Date Completed: 03/28/91
Priority Level: Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMOVAL
Date Started: 08/27/90
Date Completed: 05/23/91
Priority Level: Cleaned up
Operable Unit: BURBANK
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Time Critical
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMOVAL COMMUNITY RELATIONS
Date Started: 09/11/90
Date Completed: 05/23/91
Priority Level: Not reported
Operable Unit: BURBANK
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: REMOVAL ASSESSMENT
Date Started: 06/17/91
Date Completed: 06/17/91
Priority Level: Not reported
Operable Unit: BURBANK
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: REMEDIAL ACTION
Date Started: 08/06/87
Date Completed: 09/04/91
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: State, Fund Financed
Planning Status: Primary
Urgency Indicator: Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started: 08/16/90
Date Completed: 09/30/91
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: CONSENT DECREE
Date Started: 03/28/91
Date Completed: 03/25/92
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 03/26/92
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: RISK/HEALTH ASSESSMENT
Date Started: / /
Date Completed: 12/15/92
Priority Level: Not reported
Operable Unit: BASINWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Action Code: 001
Action: ECOLOGICAL RISK ASSESSMENT
Date Started: / /
Date Completed: 12/15/92
Priority Level: Not reported
Operable Unit: BASINWIDE
Primary Responsibility: State, Fund Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: PREPARATION OF COST DOCUMENT PACKAGE
Date Started: / /
Date Completed: 06/17/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started: 09/25/89
Date Completed: 06/30/93
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: FIVE-YEAR REVIEW
Date Started: 07/08/93
Date Completed: 07/08/93
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 03/25/92
Date Completed: 11/22/93
Priority Level: Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Operable Unit: BURBANK
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Phased Completion

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 07/27/92
Date Completed: 11/22/93
Priority Level: Not reported
Operable Unit: BURBANK
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 02/18/94
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: PREPARATION OF COST DOCUMENT PACKAGE
Date Started: 03/24/94
Date Completed: 06/24/94
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION
Date Started: 02/18/94
Date Completed: 09/09/94
Priority Level: Not reported
Operable Unit: BASINWIDE
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 02/18/94
Date Completed: 09/09/94
Priority Level: Not reported
Operable Unit: BASINWIDE
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: PREPARATION OF COST DOCUMENT PACKAGE
Date Started: 09/04/94
Date Completed: 02/13/95
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: PREPARATION OF COST DOCUMENT PACKAGE
Date Started: 10/17/95
Date Completed: 01/26/96
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: Lodged By DOJ
Date Started: / /
Date Completed: 02/21/96
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Action:	Lodged By DOJ
Date Started:	/ /
Date Completed:	03/14/96
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	005
Action:	CONSENT DECREE
Date Started:	01/02/96
Date Completed:	07/01/96
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	004
Action:	CONSENT DECREE
Date Started:	02/12/96
Date Completed:	08/01/96
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	SECTION 107 LITIGATION
Date Started:	03/19/93
Date Completed:	01/14/97
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	COST RECOVERY NEGOTIATIONS
Date Started:	07/16/93
Date Completed:	01/14/97
Priority Level:	Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: Explanation Of Significant Differences
Date Started: / /
Date Completed: 02/12/97
Priority Level: Not reported
Operable Unit: BURBANK
Primary Responsibility: Not reported
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: Lodged By DOJ
Date Started: / /
Date Completed: 02/18/97
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: Lodged By DOJ
Date Started: / /
Date Completed: 02/18/97
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 006
Action: CONSENT DECREE
Date Started: 01/14/97
Date Completed: 05/14/97
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 007
Action: CONSENT DECREE
Date Started: / /
Date Completed: 05/14/97
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 05/04/94
Date Completed: 08/07/97
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 03/25/92
Date Completed: 09/30/97
Priority Level: Not reported
Operable Unit: BURBANK
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Phased Start

For detailed financial records, contact EDR for a Site Report.:

Action Code: 005
Action: Lodged By DOJ
Date Started: / /
Date Completed: 03/17/98
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Action Code: 002
Action: CONSENT DECREE
Date Started: 08/07/97
Date Completed: 06/22/98
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 06/30/98
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: FIVE-YEAR REVIEW
Date Started: / /
Date Completed: 08/17/98
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 12/30/98
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: LONG TERM RESPONSE ACTION
Date Started: 12/01/89

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Date Completed: 12/01/99
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: State, Fund Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: FIVE-YEAR REVIEW
Date Started: 06/20/03
Date Completed: 09/30/03
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 005
Action: FIVE-YEAR REVIEW
Date Started: 04/15/04
Date Completed: 09/30/04
Priority Level: Not reported
Operable Unit: BURBANK
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 03/29/07
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: Notice of Intent by All Parties
Date Started: / /
Date Completed: 03/29/07
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: Not reported
Planning Status: Not reported
Urgency Indicator: Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 09/16/08
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: NEGOTIATION (GENERIC)
Date Started: / /
Date Completed: 09/16/08
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 005
Action: UNILATERAL ADMIN ORDER
Date Started: / /
Date Completed: 09/18/08
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: FIVE-YEAR REVIEW
Date Started: 04/24/08
Date Completed: 09/30/08
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Action:	FEASIBILITY STUDY
Date Started:	01/23/06
Date Completed:	09/30/09
Priority Level:	Not reported
Operable Unit:	NORTH HOLLYWOOD 2ND REMEDY
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	004
Action:	RECORD OF DECISION
Date Started:	/ /
Date Completed:	09/30/09
Priority Level:	Not reported
Operable Unit:	NORTH HOLLYWOOD 2ND REMEDY
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	004
Action:	ADMINISTRATIVE ORDER ON CONSENT
Date Started:	/ /
Date Completed:	12/29/09
Priority Level:	Not reported
Operable Unit:	NORTH HOLLYWOOD 2ND REMEDY
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	CLAIM IN BANKRUPTCY PROCEEDING
Date Started:	07/02/09
Date Completed:	04/23/10
Priority Level:	Not reported
Operable Unit:	BURBANK
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	004
Action:	Special Notice Issued
Date Started:	/ /
Date Completed:	07/01/10
Priority Level:	Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Operable Unit: NORTH HOLLYWOOD 2ND REMEDY
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 004
Action: REMEDIAL DESIGN/REMEDIAL ACTION NEGOTIATIONS
Date Started: 07/01/10
Date Completed: 02/14/11
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD 2ND REMEDY
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 005
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 02/14/11
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD 2ND REMEDY
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 006
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 11/16/11
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: NEGOTIATION (GENERIC)
Date Started: / /
Date Completed: 11/16/11
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 007
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 12/06/11
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: NEGOTIATION (GENERIC)
Date Started: / /
Date Completed: 12/06/11
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 005
Action: NATIONAL PRIORITIES LIST RESPONSIBLE PARTY SEARCH
Date Started: 09/08/04
Date Completed: 04/26/12
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Other Completion Anomaly

For detailed financial records, contact EDR for a Site Report.:

Action Code: 008
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 03/01/13
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD 2ND REMEDY
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 009

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 08/06/13
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD 2ND REMEDY
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: COMBINED REMEDIAL INVESTIGATION/FEASIBILITY STUDY
Date Started: 08/16/85
Date Completed: / /
Priority Level: Not reported
Operable Unit: BASINWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: TECHNICAL ASSISTANCE
Date Started: 09/30/85
Date Completed: / /
Priority Level: Not reported
Operable Unit: BASINWIDE
Primary Responsibility: EPA Fund-Financed
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 11/22/93
Date Completed: / /
Priority Level: Not reported
Operable Unit: BURBANK
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Phased Completion

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 11/22/93
Date Completed: / /
Priority Level: Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Operable Unit: BURBANK
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Phased Completion

For detailed financial records, contact EDR for a Site Report.:

Action Code: 003
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL ACTION
Date Started: 09/30/97
Date Completed: / /
Priority Level: Not reported
Operable Unit: BURBANK
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Long Term Action
Action Anomaly: Phased Start

For detailed financial records, contact EDR for a Site Report.:

Action Code: 001
Action: OPERATIONS AND MAINTENANCE
Date Started: 12/01/99
Date Completed: / /
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD
Primary Responsibility: Responsible Party
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 006
Action: POTENTIALLY RESPONSIBLE PARTY REMEDIAL DESIGN
Date Started: 02/14/11
Date Completed: / /
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD 2ND REMEDY
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code: 002
Action: REMEDIAL DESIGN
Date Started: 03/01/13
Date Completed: / /
Priority Level: Not reported
Operable Unit: NORTH HOLLYWOOD 2ND REMEDY
Primary Responsibility: EPA Fund-Financed
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

For detailed financial records, contact EDR for a Site Report.:

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Federal Register Details:
Fed Register Date: 06/10/86
Fed Register Volume: 51
Page Number: 21054

Fed Register Date: 10/15/84
Fed Register Volume: 49
Page Number: 40320

Click this hyperlink while viewing on your computer to access
3257 additional US CERCLIS Financial: record(s) in the EDR Site Report.

US ENG CONTROLS:
EPA ID: CAD980894893
Site ID: 0902251
Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
EPA Region: 09
County: LOS ANGELES
Event Code: Not reported
Actual Date: 09/30/2009
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 11/12/1990
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Reinjection
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 001
Action Name: Explanation Of Significant Differences
Action Completion date: 11/12/1990
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Treatment, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: Explanation Of Significant Differences
Action Completion date: 02/12/1997
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Non-fundamental change (ESD)

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 06/30/1989
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Air Stripping
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 06/30/1989
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 06/30/1989
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Reuse as Drinking Water
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 002
Action Name: RECORD OF DECISION
Action Completion date: 06/30/1989
Operable Unit: 03
Contaminated Media : Groundwater
Engineering Control: Treatment, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 09/24/1987
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Aeration
Contact Name: Not reported
Contact Phone and Ext: Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Latitude: Not reported
Longitude: Not reported

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 09/24/1987
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 09/24/1987
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Containment, (N.O.S.)
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 09/24/1987
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Discharge
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 003
Action Name: RECORD OF DECISION
Action Completion date: 09/24/1987
Operable Unit: 02
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2009
Operable Unit: 04
Contaminated Media : Groundwater
Engineering Control: Air Stripping
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2009
Operable Unit: 04
Contaminated Media : Groundwater
Engineering Control: Extraction
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2009
Operable Unit: 04
Contaminated Media : Groundwater
Engineering Control: Filtration
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2009
Operable Unit: 04
Contaminated Media : Groundwater
Engineering Control: Ion Exchange
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2009
Operable Unit: 04
Contaminated Media : Groundwater
Engineering Control: Liquid Phase Carbon Adsorption
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 004
Action Name: RECORD OF DECISION
Action Completion date: 09/30/2009
Operable Unit: 04
Contaminated Media : Groundwater
Engineering Control: Monitoring
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

Action ID: 004
Action Name: RECORD OF DECISION

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Action Completion date: 09/30/2009
Operable Unit: 04
Contaminated Media : Groundwater
Engineering Control: Well Head Treatment
Contact Name: Not reported
Contact Phone and Ext: Not reported
Latitude: Not reported
Longitude: Not reported

US INST CONTROL:
EPA ID: CAD980894893
Site ID: 0902251
Name: SAN FERNANDO VALLEY (AREA 1)
Action Name: RECORD OF DECISION
Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
EPA Region: 09
County: LOS ANGELES
Event Code: Not reported
Inst. Control: Groundwater use/well drilling regulation
Actual Date: 09/30/2009
Complet. Date: 09/30/2009
Operable Unit: 04
Contaminated Media : Groundwater
Contact Name : Not reported
Contact Phone and Ext : Not reported
Latitude : Not reported
Longitude : Not reported

ENVIROSTOR:
Facility ID: 19990011
Status: Active
Status Date: 05/15/1996
Site Code: 300287
Site Type: Federal Superfund
Site Type Detailed: State Response or NPL
Acres: 5254
NPL: YES
Regulatory Agencies: SMBRP, RWQCB 4 - Los Angeles, US EPA
Lead Agency: US EPA
Program Manager: Tedd Yargeau
Supervisor: Javier Hinojosa
Division Branch: Cleanup Chatsworth
Assembly: 39
Senate: 18
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.1875
Longitude: -118.3838
APN: NONE SPECIFIED
Past Use: AEROSPACE MANUFACTURING/MAINTENANCE, MACHINE SHOP, MANUFACTURING - METAL, METAL FINISHING, METAL PLATING - CHROME, METAL PLATING - OTHER, RESEARCH - AEROSPACE

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Potential COC: Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Chromium III Chromium VI
Confirmed COC: Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Chromium III Chromium VI
Potential Description: AQUI, SOIL
Alias Name: BURBANK OU
Alias Type: Alternate Name
Alias Name: NORTH HOLLYWOOD OUFS
Alias Type: Alternate Name
Alias Name: SAN FERNANDO VALLEY GW BASIN AREA 1
Alias Type: Alternate Name
Alias Name: CAD980894893
Alias Type: CERCLIS ID
Alias Name: 110009267961
Alias Type: EPA (FRS #)
Alias Name: P31031
Alias Type: PCode
Alias Name: 300126
Alias Type: Project Code (Site Code)
Alias Name: 300173
Alias Type: Project Code (Site Code)
Alias Name: 300287
Alias Type: Project Code (Site Code)
Alias Name: 19990011
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 06/24/1997
Comments: A second partial Consent Decree, dated June 24, 1997, requires reimbursement to the State by Lockheed-Martin of certain past costs and annual billing for future site specific response costs.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 05/14/1997
Comments: The second partial consent decree to recover DTSC's past cost is signed on May 14, 1997. This also concludes the litigation for the interim remedy at the North Hollywood OU.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Order
Completed Date: 08/01/1996
Comments: The first partial consent decree is entered by the Federal District court on August 1, 1996.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 08/17/1998
Comments: A second 5-year review of remedial activities is conducted at the North Hollywood OU (NHOU) and covers operations from 1993 thru 1997. The purpose was to evaluate whether the NH Interim Remedy achieved the objectives specified in the ROD. The findings of the 5-year

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

review are that the objectives of the ROD have been met.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 11/17/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Design/Implementation Workplan
Completed Date: 03/31/1997
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Participation Plan / Community Relations Plan
Completed Date: 04/30/1990
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 06/30/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 06/30/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/31/1989
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Investigation / Feasibility Study
Completed Date: 09/30/1987
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/08/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 01/08/2009
Comments: DTSCs letter with comments on Focussed Feasibility Study document for North Hollywood Operable Unit, San Fernando Valley Area 1 was sent out.

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Record of Decision - Interim
Completed Date: 09/28/2009
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

Calsite:
Region: GLENDALE
Facility ID: 19990011
Facility Type: NPJF
Type: NPL SITE, JOINT STATE/FEDERAL-FUNDED
Branch: SA
Branch Name: SO CAL - GLENDALE
File Name: Not reported
State Senate District: 05151996
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: ENVIRONMENTAL PROTECTION AGENCY
NPL: Listed
SIC Code: 99
SIC Name: NONCLASSIFIABLE ESTABLISHMENTS
Access: Not reported
Cortese: Not reported
Hazardous Ranking Score: Not reported
Date Site Hazard Ranked: Not reported
Groundwater Contamination: Confirmed
Staff Member Responsible for Site: TYARGEAU
Supervisor Responsible for Site: Not reported
Region Water Control Board: LA
Region Water Control Board Name: LOS ANGELES
Lat/Long Direction: Not reported
Lat/Long (dms): 0 0 0 / 0 0 0
Lat/long Method: Not reported
Lat/Long Description: Not reported
State Assembly District Code: 43
State Senate District Code: 20
Facility ID: 19990011
Activity: RAP
Activity Name: REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code: NH
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported
Comments Date: 09301987
Est Person-Yrs to complete: 0
Estimated Size: Not reported
Request to Delete Activity: Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19990011
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	NH
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09301987
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19990011
Activity:	RA
Activity Name:	REMOVAL ACTION
AWP Code:	NH
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03311989
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19990011
Activity:	RAP
Activity Name:	REMEDIAL ACTION PLAN / RECORD OF DECISION
AWP Code:	B
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06301989
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19990011
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	B
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06301989
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19990011
Activity:	PPP
Activity Name:	PUBLIC PARTICIPATION PLAN
AWP Code:	Not reported
Proposed Budget:	0

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	04301990
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19990011
Activity:	DES
Activity Name:	DESIGN
AWP Code:	B-PH1
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03311997
Est Person-Yrs to complete:	0.30000
Estimated Size:	X
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19990011
Activity:	COST
Activity Name:	COST RECOVERY
AWP Code:	NH1/1
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09041996
Est Person-Yrs to complete:	0
Estimated Size:	X
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19990011
Activity:	OM
Activity Name:	OPERATION & MAINTENANCE
AWP Code:	NH OU
Proposed Budget:	0
AWP Completion Date:	06302009
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	M
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19990011
Activity:	COST
Activity Name:	COST RECOVERY
AWP Code:	NH2/1
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06201997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Unknown Type:	0
Facility ID:	19990011
Activity:	DES
Activity Name:	DESIGN
AWP Code:	B-PH2
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	11171997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19990011
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	CSNH1
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08011996
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19990011
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	CSNH2
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	05141997

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19990011
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	CD-B2
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	06241997
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19990011
Activity:	5YEAR
Activity Name:	FIVE-YEAR REVIEW REQUIRED BY CERCLA
AWP Code:	NH OU
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	08171998
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Action Included Fencing: Not reported
Removal Action Certification: Not reported
Activity Comments: Not reported
For Commercial Reuse: 0
For Industrial Reuse: 0
For Residential Reuse: 0
Unknown Type: 0
Alternate Address: NORTH HOLLYWOOD AREA
Alternate City,St,Zip: NORTH HOLLYWOOD, CA 91606
Alternate Address: NORTH HOLLYWOOD WELLFIELD AREA
Alternate City,St,Zip: LOS ANGELES, CA 91601
Alternate Address: BURBANK
Alternate City,St,Zip: BURBANK, CA 91502
Background Info: The San Fernando Valley Ground Water Basin (SFVGWB) is located within the Upper Los Angeles River Area, and consists of the eastern portion of the San Fernando Valley and the entire Verdugo Basin. The SFVGWB encompasses approximately 112,000 acres of alluvial valley fill deposits and provides enough water to serve approximately 600,000 residents. The Basin is bounded on the north and the northwest by the Santa Susana Mountains, on the northeast by the San Gabriel Mountains, on the west by the Simi Hills and on the south by the Santa Monica Mountains.
The San Fernando Valley Study area includes four National Priorities List (NPL) sites. They are:
Area #1 - North Hollywood NPL Site covers 9336 acres in the eastern part of the San Fernando Valley. The site has been divided into the North Hollywood Operable Unit(OU) and the Burbank OU.
Area #2 - Crystal Springs NPL Site covers 3975 acres located southeast of the North Hollywood NPL site and is in the cities of Glendale and Los Angeles.
Area #3 - Verdugo NPL Site covers 2673 acres in the eastern part of the SF Valley and is located in and adjacent to La Crescenta in the Verdugo Mountains.
Area #4 - the Pollock NPL Site covers 1635 acres in the south-eastern part of the San Fernando Valley and is located in and adjacent to the cities of Los Angeles and Glendale.
Groundwater contamination in the SFVGWB is linked to prewar, postwar, and current industrialization in the San Fernando Valley.
The primary contaminants of concern are the volatile organic compounds (VOCs) trichloroethylene (TCE) and tetrachloroethylene (PCE). These compounds have been and/or are being used in many San Fernando Valley industries, such as aeronautical, automotive dry cleaning, and metal plating. These solvents have found their way to the groundwater basin as a result of both past and improper use, storage and disposal practices. The SFVGWB Superfund sites, added to the NPL in 1986, are areas where groundwater from wells have been found to contain VOCs above the state and federal drinking water standards. Groundwater contamination in numerous wells have been so severe with TCE and PCE that these wells have essentially been put out of commission.
Exposure of receptors to contaminants can possibly occur through ingestion of contaminated drinking water, inhalation of VOC vapors released from the contaminated water as in taking showers, and dermal exposure as in washing or bathing. However, with the strict regulatory control over water quality by the

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

State's Department of Health, Office of Drinking Water (ODW), the RWQCB, and other agencies, residents are assured that the water they consume is safe and that no one is drinking water which contains concentrations of contaminants above regulatory standards. Federal, state, and local agencies have been conducting investigations and cleanup of contaminated groundwater in the San Fernando Valley since contamination was discovered in 1979. These activities involve measuring the extent of contamination, developing and implementing cleanup remedies, and identifying responsible parties.
EPA provided oversight of the basinwide Remedial Investigation (RI) of groundwater contamination conducted by the Los Angeles Department of Water and Power (LADWP). The RI objectives were to collect lithological and water quality data and information regarding basin operations for the eastern SF and Verdugo basins; develop a regional characterization of geology, hydrology, hydrogeology and the nature and extent of groundwater contamination within the eastern and Verdugo basins; study fate and transport of compounds in the environment; identify Applicable or Relevant and Appropriate Requirements; (ARAR's) and evaluate the potential risk to human health and the environment. The Remedial Investigation of the SFVGWB was divided into two phases.
Phase I activities have included vertical profile borings and installation of monitoring wells to obtain preliminary contamination information. Monitoring wells have been installed as follows: 34 in North Hollywood (Area #1); 29 in Crystal Springs (Area #2); 7 in Verdugo (Area #3); and 17 in Pollock (Area #4).
Information obtained from Phase I investigation activities identified the need for several operable units. Operable Unit is a federal term which is similar to the State's definition of a removal action.
Phase II activities consist of a basinwide remedial investigation conducted by the LADWP.
Remedial Actions (RAs):
North Hollywood (Area #1) -- Two RAs were identified for Area #1, the North Hollywood OU and the Burbank OU.
A Record of Decision (ROD) for the North Hollywood RA was signed in September 1987, selecting groundwater extraction and treatment (air stripping) of 2,000 gallons per minute (gpm) of contaminated water as an interim remedy. This RA was constructed with funding from EPA and the State and has been treating contaminated groundwater since March 1989. This facility is located at 11845 Vose Street in the N. Hollywood section of Los Angeles.
A ROD for the Burbank OU was signed in June 1989, again selecting groundwater extraction and treatment of about 12,000 gpm of contaminated water. Phase I of the Burbank OU began operations in January 1996 treating groundwater at a rate of 6,000 gpm. Phase II began operations in May 1998 adding an additional 3,000 gpm to the Burbank OU's treatment capacity.
Crystal Springs (Area #2) -- LADWP has completed a focused RI/FS for this proposed RA. The Glendale OU has been separated into a North OU and a South OU based on the amount of contamination and the facilities contributing to the GW

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

contamination. A ROD for each OU was signed on June 18, 1993 designating groundwater extraction and treatment as the interim remeday. The PRPs have formed a group and combined the RA efforts for each OU into one document. The selected alternative is GW extraction and treatment. The Glendale OU began operations in September 2000.
Verdugo and Pollock (Areas #3 and #4) --
Currently no RAs have been identified for Area #3 or for Area #4. In October 2003 US EPA proposed No Remedial Action for Verdugo Basin (Area #3).
Another contaminant of concern, hexavalent chromium, has been identified in the San Fernando Valley Groundwater Basin.
EPA and the RWQCB are currently dentifying potential sources of contamination and pursuing PRPs that may be responsible for contaminating groundwater. As these PRPs are identified, individual site investigations and mitigation activities will be pursued. Enforceable agreements and orders will be implemented at numerous specific potential source sites within the Basin by RWQCB and DTSC

Comments Date: 01011984
Comments: Groundwater contaminated with TCE and PCE is discovered.
Comments Date: 01011984
Comments: Site covers approximately 5254 acres.
Comments Date: 04141996
Comments: Consent Decree between EPA, DTSC and settling PRPs lodged
Comments Date: 04141996
Comments: with the court. Negotiations with non-settling PRPs
Comments Date: 04141996
Comments: continue.
Comments Date: 04241994
Comments: The U.S. EPA is in the process of recovering costs from
Comments Date: 04241994
Comments: the PRPs. DOJ is pursuing the cost recovery for DTSC.
Comments Date: 04241994
Comments: The cooperative PRPs are willing to settle if they are
Comments Date: 04241994
Comments: guaranteed contribution protection from the non-settling
Comments Date: 04241994
Comments: PRPs (so that they cannot be named as a party to the
Comments Date: 04241994
Comments: suit by the non-settling PRPs). DTSC is providing
Comments Date: 04241994
Comments: documentation to DOJ (i.e. timesheets) to determine
Comments Date: 04241994
Comments: staff time charged to the project. EPA is pursuing
Comments Date: 04241994
Comments: legal action against the non-settling PRPs to recover
Comments Date: 04241994
Comments: costs of past and future oversight.
Comments Date: 05022002
Comments: EPA issues fine against Lockheed Martin for 1.37 million for
Comments Date: 05022002
Comments: Force Majeure claim on Burbank Operable Unit.
Comments Date: 05131998
Comments: 11/17/97-The phase 2 design adds an additional well (wp-180)
Comments Date: 05131998

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Comments:	and pipeline for extraction and treatment at the Burbank
Comments Date:	05131998
Comments:	operable unit. This adds an additional 3,000 gpm to the treatmen
Comments Date:	05131998
Comments:	system. Additional amendments to the design include changing the
Comments Date:	05131998
Comments:	Liquid Phase Granular Activated Carbon (LPGAC) bed system from an
Comments Date:	05131998
Comments:	upflow to a downflow configuration, and the addition of a LPGAC
Comments Date:	05131998
Comments:	backflush filtration system for continuous backflush to the
Comments Date:	05131998
Comments:	plant's storm drain discharge.
Comments Date:	05141997
Comments:	The second partial consent decree to recover DTSC's past cost is
Comments Date:	05141997
Comments:	signed on May 14, 1997. This also concludes the litigation for
Comments Date:	05141997
Comments:	the interim remedy at the North Hollywood OU.
Comments Date:	06201997
Comments:	DTSC recovers costs in accordance with the Second Partial
Comments Date:	06201997
Comments:	Consent Decree for the interim remedy at the NHOU. Two
Comments Date:	06201997
Comments:	additional payments are due by 5/14/98 and and 5/14/99.
Comments Date:	06241997
Comments:	A second partial Consent Decree, dated June 24, 1997, requires
Comments Date:	06241997
Comments:	reimbursement to the State by Lockheed-Martin of certain past
Comments Date:	06241997
Comments:	costs and annual billing for future site specific response costs.
Comments Date:	08011996
Comments:	The first partial consent decree is entered by the Federal
Comments Date:	08011996
Comments:	District court on August 1, 1996.
Comments Date:	08171998
Comments:	A second 5-year review of remedial activities is conducted at
Comments Date:	08171998
Comments:	the North Hollywood OU (NHOU) and covers operations from 1993
Comments Date:	08171998
Comments:	thru 1997. The purpose was to evaluate whether the NH Interim
Comments Date:	08171998
Comments:	Remedy achieved the objectives specified in the ROD. The
Comments Date:	08171998
Comments:	findings of the 5-year review are that the objectives of the
Comments Date:	08171998
Comments:	ROD have been met.
Comments Date:	09041996
Comments:	Costs are recovered by DTSC in accordance with the First
Comments Date:	09041996
Comments:	Partial Consent Decree for interim remedial action at the North
Comments Date:	09041996
Comments:	Hollywood OU (NHOU). An additional payment is due by 08/01/97.
Comments Date:	09202001
Comments:	The facility has been operating continuously with six water
Comments Date:	09202001
Comments:	supply wells on line. This past quarter approximately 175

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Comments Date: 09202001
Comments: million gallons of water was treated down to non-detect levels
Comments Date: 09202001
Comments: of contamination.
Comments Date: 12191999
Comments: Negotiating new state superfund contract between U.S. EPA, DTSC,
Comments Date: 12191999
Comments: and the Los Angeles Department of Water and Power to provide for
Comments Date: 12191999
Comments: continued funding of operation and maintenance of the NHOU.
ID Name: CALSTARS CODE
ID Value: 300127
ID Name: CALSTARS CODE
ID Value: 300126
ID Name: BEP DATABASE PCODE
ID Value: P31031
Alternate Name: SAN FERNANDO VALLEY GW BASIN AREA 1NORTH HOLLYWOOD OUFSSAN FERNANDO VALLEY (AREA 1)BURBANK OU
Special Programs Code: MSCA
Special Programs Name: MULTI-SITE COOPERATIVE AGREEMENT

ROD:
Full-text of USEPA Record of Decision(s) is available from EDR.

PRP:
PRP name:
2L SCREEN PRINTING CO.
A-H PLATING, INC.
ACCESSORY PLATING
ADLER SCREW PRODUCTS INC.
AEROQUIP CORP.
AEROQUIP CORP.
AIRPORT GROUP INTERNATIONAL, INC.
AIRPORT GROUP INTERNATIONAL, INC.
ALLIED SIGNAL
ALLIED SIGNAL
ANTONINI FAMILY TRUST
B.J. GRINDING
BARRON ANODIZING
BASINGER B TRUST
BASINGER C TRUST
BENDIX CORP.
BENDIX CORP.
CALIFORNIA CAR HIKERS SERVICES, INC.
CALMAT CO.
CALMAT CO.
CALMAT CO.
CALMAT CO.
CEBALLOS, MR. CHUCK
CHASE, STUART
COOKE FAMILY TRUST (AMENDED)
COOKE FAMILY TRUST (AMENDED)
COOKE FAMILY TRUST (AMENDED)
CRANE COMPANY/HYDRO-AIRE DIVISION
CRANE COMPANY/HYDRO-AIRE DIVISION
DE KING SCREW PRODUCTS
DELTRON ENGINEERING

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

DYNAMIC PLATING, INC.
ELLISON, LEON
ERIK AND ELSE BRUUN-ANDERSEN TRUST
ERIK AND ELSE BRUUN-ANDERSEN TRUST
FLEETWOOD MACHINE PRODUCTS, INC.
FLEETWOOD MACHINE PRODUCTS, INC.
FLEETWOOD MACHINE PRODUCTS, INC.
FRANK GUERRORO
HASKEL, INC.
HAWKER PACIFIC CORPORATION
HAWKER PACIFIC CORPORATION
HAWKER PACIFIC CORPORATION
HAYWARD ASSOC, LLC
HONEYWELL INTERNATIONAL, INC.
HONEYWELL INTERNATIONAL, INC.
HONEYWELL INTERNATIONAL, INC.
HONEYWELL INTERNATIONAL, INC.
JANCO CORPORATION
JANCO CORPORATION
JOHNSON, CHAD
KAHR BEARING
KAHR BEARING
LA AGCO SALES
LAWRENCE ENGINEERING AND SUPPLY CO.
LOCKHEED AERONAUTICAL SYSTEMS
LOCKHEED AERONAUTICAL SYSTEMS
LOCKHEED AERONAUTICAL SYSTEMS
LOCKHEED AERONAUTICAL SYSTEMS
LOCKHEED AERONAUTICAL SYSTEMS

Click this hyperlink while viewing on your computer to access
45 additional PRP: record(s) in the EDR Site Report.

ICIS:

Enforcement Action ID:	09-2013-2511
FRS ID:	110009267961
Program ID:	FRS 110009267961
Action Name:	NHOU AOC FOR RECOVERY OF RESPONSE COSTS
Full Address:	NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State:	California
Facility Name:	SAN FERNANDO VALLEY (AREA 1)
Facility Address:	NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD, CA 91601
Enforcement Action Type:	CERCLA 122h Agrmt For Cost Recovery
Facility County:	LOS ANGELES
EPA Region #:	9

Enforcement Action ID:	09-2013-2511
FRS ID:	110009267961
Program ID:	CERCLIS CAD980894893
Action Name:	NHOU AOC FOR RECOVERY OF RESPONSE COSTS
Full Address:	NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State:	California
Facility Name:	SAN FERNANDO VALLEY (AREA 1)
Facility Address:	NORTH HOLLYWOOD WELLFIELD AREA

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2511
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: NHOU AOC FOR RECOVERY OF RESPONSE COSTS
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2511
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: NHOU AOC FOR RECOVERY OF RESPONSE COSTS
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 107L Filing Of Lien
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2511
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: NHOU AOC FOR RECOVERY OF RESPONSE COSTS
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 107L Filing Of Lien
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2511
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: NHOU AOC FOR RECOVERY OF RESPONSE COSTS
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Enforcement Action Type: CERCLA 107L Filing Of Lien
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2508
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: NHOU AOC FOR HONEYWELL NHE-2 RD
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2508
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: NHOU AOC FOR HONEYWELL NHE-2 RD
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 104E5A AO For Access And/Or Info
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2508
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: NHOU AOC FOR HONEYWELL NHE-2 RD
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 104E5A AO For Access And/Or Info
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2508
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: NHOU AOC FOR HONEYWELL NHE-2 RD
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 104E5A AO For Access And/Or Info

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2508
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: NHOU AOC FOR HONEYWELL NHE-2 RD
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2508
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: NHOU AOC FOR HONEYWELL NHE-2 RD
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
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Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

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State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2508
FRS ID: 110009267961
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Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 107L Filing Of Lien
Facility County: LOS ANGELES

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

EPA Region #: 9

Enforcement Action ID: 09-2013-2508
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: NHOU AOC FOR HONEYWELL NHE-2 RD
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 107L Filing Of Lien
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2508
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: NHOU AOC FOR HONEYWELL NHE-2 RD
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 107L Filing Of Lien
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2508
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: NHOU AOC FOR HONEYWELL NHE-2 RD
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2013-2508
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: NHOU AOC FOR HONEYWELL NHE-2 RD
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
EPA Region #: 9

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Enforcement Action ID: 09-2012-2501
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: NHOU AOC WITH WASTE MGMT FOR COST RECOVERY AND CIVIL PENALTY
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2012-2501
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: NHOU AOC WITH WASTE MGMT FOR COST RECOVERY AND CIVIL PENALTY
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2012-2501
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: NHOU AOC WITH WASTE MGMT FOR COST RECOVERY AND CIVIL PENALTY
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2012-2500
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: NHOU AOC WITH PICK-YOUR-PART FOR RECOVERY OF RESPONSE COSTS AND PAYMENT OF CIVIL PENALTY
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Enforcement Action ID: 09-2012-2500
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: NHOU AOC WITH PICK-YOUR-PART FOR RECOVERY OF RESPONSE COSTS AND PAYMENT OF CIVIL PENALTY
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2012-2500
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: NHOU AOC WITH PICK-YOUR-PART FOR RECOVERY OF RESPONSE COSTS AND PAYMENT OF CIVIL PENALTY
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2012-2500
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: NHOU AOC WITH PICK-YOUR-PART FOR RECOVERY OF RESPONSE COSTS AND PAYMENT OF CIVIL PENALTY
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2012-2500
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: NHOU AOC WITH PICK-YOUR-PART FOR RECOVERY OF RESPONSE COSTS AND PAYMENT OF CIVIL PENALTY
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2012-2500
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: NHOU AOC WITH PICK-YOUR-PART FOR RECOVERY OF RESPONSE COSTS AND PAYMENT OF CIVIL PENALTY
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2011-2509
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: NORTH HOLLYWOOD OPERABLE UNIT AOC FOR RD
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2011-2509
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: NORTH HOLLYWOOD OPERABLE UNIT AOC FOR RD
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2011-2509
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: NORTH HOLLYWOOD OPERABLE UNIT AOC FOR RD
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2011-2500
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: ACCESS ORDER TO LOS ANGELES BYPRODUCTS CO.
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 104E5A AO For Access And/Or Info
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2011-2500
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: ACCESS ORDER TO LOS ANGELES BYPRODUCTS CO.
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 104E5A AO For Access And/Or Info
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2011-2500
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: ACCESS ORDER TO LOS ANGELES BYPRODUCTS CO.
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 104E5A AO For Access And/Or Info
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2010-2519
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: LYONDELL BANKRUPTCY (NC)
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Bankruptcy
Facility County: LOS ANGELES

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

EPA Region #: 9

Enforcement Action ID: 09-2010-2519
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: LYONDELL BANKRUPTCY (NC)
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Bankruptcy
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2010-2519
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: LYONDELL BANKRUPTCY (NC)
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Bankruptcy
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2010-2505
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: NORTH HOLLYWOOD AO FOR RI WITH HONEYWELL INTL INC
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2010-2505
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: NORTH HOLLYWOOD AO FOR RI WITH HONEYWELL INTL INC
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS
Facility County: LOS ANGELES
EPA Region #: 9

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Enforcement Action ID:	09-2010-2505
FRS ID:	110009267961
Program ID:	DTSC-ENVIROSTOR 19990011
Action Name:	NORTH HOLLYWOOD AO FOR RI WITH HONEYWELL INTL INC
Full Address:	NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State:	California
Facility Name:	SAN FERNANDO VALLEY (AREA 1)
Facility Address:	NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD, CA 91601
Enforcement Action Type:	CERCLA 122A/104A Agrmt For RI/FS
Facility County:	LOS ANGELES
EPA Region #:	9

Enforcement Action ID:	09-2008-2527
FRS ID:	110009267961
Program ID:	FRS 110009267961
Action Name:	NORTH HOLLYWOOD 106A ORDER FOR GROUNDWATER
Full Address:	NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State:	California
Facility Name:	SAN FERNANDO VALLEY (AREA 1)
Facility Address:	NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD, CA 91601
Enforcement Action Type:	CERCLA 106 AO For Resp Action/Imm Haz
Facility County:	LOS ANGELES
EPA Region #:	9

Enforcement Action ID:	09-2008-2527
FRS ID:	110009267961
Program ID:	DTSC-ENVIROSTOR 19990011
Action Name:	NORTH HOLLYWOOD 106A ORDER FOR GROUNDWATER
Full Address:	NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State:	California
Facility Name:	SAN FERNANDO VALLEY (AREA 1)
Facility Address:	NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD, CA 91601
Enforcement Action Type:	CERCLA 106 AO For Resp Action/Imm Haz
Facility County:	LOS ANGELES
EPA Region #:	9

Enforcement Action ID:	09-2008-2527
FRS ID:	110009267961
Program ID:	CERCLIS CAD980894893
Action Name:	NORTH HOLLYWOOD 106A ORDER FOR GROUNDWATER
Full Address:	NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State:	California
Facility Name:	SAN FERNANDO VALLEY (AREA 1)
Facility Address:	NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD, CA 91601
Enforcement Action Type:	CERCLA 106 AO For Resp Action/Imm Haz
Facility County:	LOS ANGELES
EPA Region #:	9

Enforcement Action ID:	09-2008-2521

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: SAN FERNANDO AREA 1 122H AOC W/ HONEYWELL, LOCKHEED
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2008-2521
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: SAN FERNANDO AREA 1 122H AOC W/ HONEYWELL, LOCKHEED
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-2008-2521
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: SAN FERNANDO AREA 1 122H AOC W/ HONEYWELL, LOCKHEED
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 122h Agrmt For Cost Recovery
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1997-0172
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: LOCKHEED MARTIN
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1997-0172
FRS ID: 110009267961

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Program ID: CERCLIS CAD980894893
Action Name: LOCKHEED MARTIN
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1997-0172
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: LOCKHEED MARTIN
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1997-0015
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: SAN FERNANDO GLENDALE (NORTH AND SOUTH)
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1997-0015
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: SAN FERNANDO GLENDALE (NORTH AND SOUTH)
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1997-0015
FRS ID: 110009267961
Program ID: FRS 110009267961

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Action Name: SAN FERNANDO GLENDALE (NORTH AND SOUTH)
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1997-0014
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: SAN FERNANDO, GLENDALE
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1997-0014
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: SAN FERNANDO, GLENDALE
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1997-0014
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: SAN FERNANDO, GLENDALE
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1993-0010
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: ALLIED-SIGNAL INCORPORATED

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1993-0010
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: ALLIED-SIGNAL INCORPORATED
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1993-0010
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: ALLIED-SIGNAL INCORPORATED
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1991-0016
FRS ID: 110009267961
Program ID: CERCLIS CAD980894893
Action Name: CITY OF BURBANK
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1991-0016
FRS ID: 110009267961
Program ID: DTSC-ENVIROSTOR 19990011
Action Name: CITY OF BURBANK
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
EPA Region #: 9

Enforcement Action ID: 09-1991-0016
FRS ID: 110009267961
Program ID: FRS 110009267961
Action Name: CITY OF BURBANK
Full Address: NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD WELLFIELD AREA NORTH HOLLYWOOD CA 91601
State: California
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Facility Address: NORTH HOLLYWOOD WELLFIELD AREA
NORTH HOLLYWOOD, CA 91601
Enforcement Action Type: Civil Judicial Action
Facility County: LOS ANGELES
EPA Region #: 9

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
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SIC Code: Not reported

Program ID: CERCLIS CAD980894893
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: DTSC-ENVIROSTOR 19990011
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110009267961
Facility Name: SAN FERNANDO VALLEY (AREA 1)
Address: NORTH HOLLYWOOD WELLFIELD AREA
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

CONSENT:
EPA ID: CAD980894893
Site ID: Not reported
Case Title: U.S. V. ALLIED-SIGNAL, ET AL.
Court Num: 93-6490
District: California, Cent
Entered Date: 19970514
Full-text of the consent decree for this site issued by the United States District Court is available from EDR. Contact your EDR Account Executive.

FINDS:

Registry ID: 110009267961

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Environmental Interest/Information System

California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor 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.

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

CORTESE:

Region:	CORTESE
Envirostor Id:	19990011
Site/Facility Type:	FEDERAL SUPERFUND - LISTED
Cleanup Status:	ACTIVE
Status Date:	05/15/1996
Site Code:	300126, 300173, 300287
Latitude:	34.1875
Longitude:	-118.38388
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	envirostor
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported

ECHO:

Envid:	1000709322

SAN FERNANDO VALLEY (AREA 1) (Continued) **1000709322**

Registry ID: 110009267961
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110009267961

4
NE
< 1/8
0.004 mi.
20 ft.

EARHART CONTINUATION HIGH SCHOOL **RCRA-LQG** **1011843780**
5355 COLFAX AVE **CAR000194589**
N HOLLYWOOD, CA 91601

Relative:
Higher

Actual:
649 ft.

RCRA-LQG:
Date form received by agency: 08/07/2008
Facility name: EARHART CONTINUATION HIGH SCHOOL
Facility address: 5355 COLFAX AVE
N HOLLYWOOD, CA 91601
EPA ID: CAR000194589
Mailing address: 333 S BEAUDRY AVE
LAUSD OEHS 20TH FL
LOS ANGELES, CA 90017
Contact: SOE AUNG
Contact address: 333 S BEAUDRY AVE LAUSD OEHS 20TH FL
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: LOS ANGELES UNIFIED SCHOOL DISTRICT
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

Owner/operator name: EARHART 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

EARHART CONTINUATION HIGH SCHOOL (Continued) **1011843780**

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
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

B5 **EDR Hist Auto** **1015172616**
SSE **11700 MAGNOLIA BLVD** **N/A**
< 1/8 **VALLEY VILLAGE, CA 91607**
0.034 mi.
179 ft. **Site 1 of 3 in cluster B**

Relative:
Lower

Actual:
634 ft.

EDR Historical Auto Stations:
Name: K & A COMPLETE AUTO REPAIR
Year: 2002
Address: 11700 MAGNOLIA BLVD

Name: K & A COMPLETE AUTO REPAIR
Year: 2003
Address: 11700 MAGNOLIA BLVD

Name: K & A COMPLETE AUTO REPAIR
Year: 2004
Address: 11700 MAGNOLIA BLVD

Name: COMPLETE AUTO REPAIR CENTER
Year: 2005
Address: 11700 MAGNOLIA BLVD

Name: COMPLETE AUTO REPAIR CENTER
Year: 2006
Address: 11700 MAGNOLIA BLVD

Name: COMPLETE AUTO REPAIR CENTER
Year: 2007
Address: 11700 MAGNOLIA BLVD

Name: COMPLETE AUTO REPAIR CENTER
Year: 2008

(Continued) **1015172616**

Address: 11700 MAGNOLIA BLVD

Name: S & J COMPLETE AUTO REPAIR
Year: 2009
Address: 11700 MAGNOLIA BLVD

Name: S & JS COMPLETE AUTO REPAIR
Year: 2010
Address: 11700 MAGNOLIA BLVD

Name: S & J COMPLETE AUTO REPAIR
Year: 2011
Address: 11700 MAGNOLIA BLVD

Name: S & J COMPLETE AUTO REPAIR
Year: 2012
Address: 11700 MAGNOLIA BLVD

B6 **TEXACO STATION** **SWEEPS UST** **S101586065**
SSE **11700 MAGNOLIA BLVD** **HIST UST** **N/A**
< 1/8 **NORTH HOLLYWOOD, CA 91607** **CA FID UST**
0.034 mi.
179 ft. **Site 2 of 3 in cluster B**

Relative:
Lower

Actual:
634 ft.

SWEEPS UST:
Status: Not reported
Comp Number: 7341
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

HIST UST:
File Number: 00027EF9
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027EF9.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

TEXACO STATION (Continued) **S101586065**

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

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	19037437
Regulated By:	UTNKI
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8187633497
Mail To:	Not reported
Mailing Address:	11700 MAGNOLIA BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NORTH HOLLYWOOD 916070000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

B7 **EDR Hist Cleaner** **1015070814**
SSE **5150 COLFAX AVE** **N/A**
< 1/8 **NORTH HOLLYWOOD, CA 91601**
0.050 mi.
263 ft. **Site 3 of 3 in cluster B**

Relative:
Lower

Actual:
633 ft.

EDR Historical Cleaners:

Name:	COLFAX LAUNDRY & CLEANERS
Year:	2001
Address:	5150 COLFAX AVE
Name:	COLFAX LAUNDRY & CLEANERS
Year:	2002
Address:	5150 COLFAX AVE
Name:	COLFAX LAUNDRY & CLEANERS
Year:	2003
Address:	5150 COLFAX AVE
Name:	COLFAX LAUNDRY & CLEANERS
Year:	2004
Address:	5150 COLFAX AVE
Name:	COLFAX LAUNDRY & CLEANERS
Year:	2006
Address:	5150 COLFAX AVE
Name:	COLFAX LAUNDRY & CLEANERS

(Continued) **1015070814**

Year: 2007
Address: 5150 COLFAX AVE

Name: COLFAX LAUNDRY & CLEANERS
Year: 2008
Address: 5150 COLFAX AVE

Name: COLFAX LAUNDRY & CLEANERS
Year: 2010
Address: 5150 COLFAX AVE

Name: COLFAX CLEANERS & LAUNDRY
Year: 2011
Address: 5150 COLFAX AVE

Name: COLFAX CLEANERS & LAUNDRY
Year: 2012
Address: 5150 COLFAX AVE

8
NNE
< 1/8
0.065 mi.
342 ft.

5407 COLFAX AVE
NORTH HOLLYWOOD, CA 91601

EDR Hist Cleaner **1015073624**
N/A

Relative:
Higher

Actual:
654 ft.

EDR Historical Cleaners:
Name: IMMACULATE CLEANING SERVICE
Year: 2001
Address: 5407 COLFAX AVE

Name: IMMACULATE CLEANING SERVICE
Year: 2002
Address: 5407 COLFAX AVE

9
ESE
1/8-1/4
0.183 mi.
966 ft.

OAKWOOD SCHOOL
11600 MAGNOLIA BLVD
NORTH HOLLYWOOD, CA 91601

RCRA-SQG **1000438486**
FINDS **CAD981569437**
ECHO

Relative:
Lower

Actual:
635 ft.

RCRA-SQG:
Date form received by agency: 08/26/1986
Facility name: OAKWOOD SCHOOL
Facility address: 11600 MAGNOLIA BLVD
NORTH HOLLYWOOD, CA 91601
EPA ID: CAD981569437
Contact: ENVIRONMENTAL MANAGER
Contact address: 11600 MAGNOLIA BLVD
NORTH HOLLYWOOD, CA 91601
Contact country: US
Contact telephone: (818) 766-5177
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

OAKWOOD SCHOOL (Continued) **1000438486**

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:	OAKWOOD SCHOOL
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

FINDS:

Registry ID: 110002717187

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.

OAKWOOD SCHOOL (Continued) **1000438486**

ECHO:
Envid: 1000438486
Registry ID: 110002717187
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002717187

C10 **NORTH HOLLYWOOD POLICE STATION** **UST** **U003780210**
NE **11640 BURBANK BLVD** **N/A**
1/8-1/4 **NORTH HOLLYWOOD, CA 91601**
0.216 mi.
1138 ft. **Site 1 of 2 in cluster C**

Relative:
Lower

Actual:
643 ft.

UST:
Facility ID: 23721
Permitting Agency: LOS ANGELES, CITY OF
Latitude: 34.1730568
Longitude: -118.3845706

C11 **NORTH HOLLYWOOD POLICE STATION GARAGE** **RCRA-SQG** **1006805516**
NE **11640 BURBANK BLVD** **FINDS** **CAR000128736**
1/8-1/4 **N HOLLYWOOD, CA 91601** **ECHO**
0.216 mi.
1138 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
643 ft.

RCRA-SQG:
Date form received by agency: 09/19/2002
Facility name: NORTH HOLLYWOOD POLICE STATION GARAGE
Facility address: 11640 BURBANK BLVD
N HOLLYWOOD, CA 91601
EPA ID: CAR000128736
Mailing address: 419 S SPRING ST 12TH FL
LOS ANGELES, CA 90013
Contact: SHARI H KUROKI
Contact address: 419 S SPRING ST 12TH FL
LOS ANGELES, CA 90013
Contact country: US
Contact telephone: (213) 473-7748
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: CITY OF L A
Owner/operator address: NOT REQUIRED
NOT REQUIRED, CA 90013
Owner/operator country: Not reported
Owner/operator telephone: (999) 999-9999
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

NORTH HOLLYWOOD POLICE STATION GARAGE (Continued) **1006805516**

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: D008
. Waste name: LEAD

Violation Status: No violations found

FINDS:

Registry ID: 110013293925

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ECHO:
Envid: 1006805516
Registry ID: 110013293925
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110013293925

D12 **MOBIL STATION 18L5K** **LUST** **S108935295**
NNE **11680 BURBANK BL.** **N/A**
1/4-1/2 **NORTH HOLLYWOOD, CA**
0.268 mi.
1416 ft. **Site 1 of 2 in cluster D**

Relative:
Higher

Actual:
658 ft.

LUST:
Region: STATE
Global Id: T0603784060
Latitude: 34.171801
Longitude: -118.387342
Case Type: LUST Cleanup Site

MOBIL STATION 18L5K (Continued) **S108935295**

Status:	Completed - Case Closed
Status Date:	01/16/2015
Lead Agency:	SWRCB
Case Worker:	MC
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	Not reported
LOC Case Number:	TT
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603784060
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0603784060
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:	T0603784060
Contact Type:	Regional Board Caseworker
Contact Name:	MATTHEW COHEN
Organization Name:	SWRCB
Address:	1001 I Street
City:	SACRAMENTO
Email:	mcohen@waterboards.ca.gov
Phone Number:	9163415751

Status History:

Global Id:	T0603784060
Status:	Completed - Case Closed
Status Date:	01/16/2015

Global Id:	T0603784060
Status:	Open - Case Begin Date
Status Date:	03/27/2001

Global Id:	T0603784060
Status:	Open - Eligible for Closure
Status Date:	08/06/2013

Global Id:	T0603784060
Status:	Open - Eligible for Closure

MOBIL STATION 18L5K (Continued) **S108935295**

Status Date: 11/19/2014

Global Id: T0603784060
Status: Open - Site Assessment
Status Date: 01/03/2008

Regulatory Activities:
Global Id: T0603784060
Action Type: ENFORCEMENT
Date: 08/11/2014
Action: Notification - Public Notice of Case Closure

Global Id: T0603784060
Action Type: ENFORCEMENT
Date: 01/16/2015
Action: Closure/No Further Action Letter

Global Id: T0603784060
Action Type: Other
Date: 03/27/2001
Action: Leak Discovery

Global Id: T0603784060
Action Type: Other
Date: 03/27/2001
Action: Leak Reported

Global Id: T0603784060
Action Type: RESPONSE
Date: 07/26/2005
Action: Site Assessment Report

Global Id: T0603784060
Action Type: RESPONSE
Date: 07/26/2005
Action: Request for Closure

Global Id: T0603784060
Action Type: RESPONSE
Date: 03/27/2001
Action: Soil and Water Investigation Report

Global Id: T0603784060
Action Type: RESPONSE
Date: 05/14/2008
Action: Correspondence

Global Id: T0603784060
Action Type: ENFORCEMENT
Date: 11/19/2014
Action: State Water Board Closure Order

D13 **MOBIL STATION 18L5K** **LUST** **U001568466**
NNE **11680 BURBANK BLVD** **HIST UST** **N/A**
1/4-1/2 **LOS ANGELES, CA 91601**
0.268 mi.
1416 ft. **Site 2 of 2 in cluster D**

Relative:
Higher

Actual:
658 ft.

LUST:

Region:	STATE
Global Id:	T0603740269
Latitude:	34.172176
Longitude:	-118.387329
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/18/2006
Lead Agency:	LOS ANGELES, CITY OF
Case Worker:	PK
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603740269
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0603740269
Contact Type:	Local Agency Caseworker
Contact Name:	PATRICK KILLIAN
Organization Name:	LOS ANGELES, CITY OF
Address:	221 N FIGUEROA ST STE 1500
City:	LOS ANGELES
Email:	Not reported
Phone Number:	2134826527

Status History:

Global Id:	T0603740269
Status:	Completed - Case Closed
Status Date:	07/18/2006

Global Id:	T0603740269
Status:	Open - Case Begin Date
Status Date:	01/01/1993

Global Id:	T0603740269
Status:	Open - Site Assessment
Status Date:	03/01/2003

MOBIL STATION 18L5K (Continued) **U001568466**

Regulatory Activities:

Global Id:	T0603740269
Action Type:	Other
Date:	03/01/1993
Action:	Leak Discovery
Global Id:	T0603740269
Action Type:	Other
Date:	03/01/1993
Action:	Leak Reported
Global Id:	T0603740269
Action Type:	Other
Date:	01/01/1993
Action:	Leak Began

HIST UST:

File Number:	00027F1C
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027F1C.pdf
Region:	STATE
Facility ID:	00000039755
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	8187609122
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:	0582
Year Installed:	1972
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	0583
Year Installed:	1972
Tank Capacity:	00005000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	0584
Year Installed:	1972
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	Not reported

MOBIL STATION 18L5K (Continued) **U001568466**

Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 0585
Year Installed: 1972
Tank Capacity: 00009940
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

E14 WSW 1/4-1/2 0.284 mi. 1500 ft. **ARCO #1680** **LUST S101583692**
5158 LAUREL CANYON BLVD **SWEEPS UST N/A**
NORTH HOLLYWOOD, CA 91607 **CA FID UST**

Site 1 of 2 in cluster E

Relative: Higher

Actual: 646 ft.

LUST:
Region: STATE
Global Id: T0603702575
Latitude: 34.1642771
Longitude: -118.3963293
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 11/23/2015
Lead Agency: SWRCB
Case Worker: MC
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 916040452
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603702575
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0603702575
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

ARCO #1680 (Continued) **S101583692**

Global Id: T0603702575
Contact Type: Regional Board Caseworker
Contact Name: MATTHEW COHEN
Organization Name: SWRCB
Address: 1001 I Street
City: SACRAMENTO
Email: mcohen@waterboards.ca.gov
Phone Number: 9163415751

Status History:
Global Id: T0603702575
Status: Completed - Case Closed
Status Date: 11/23/2015

Global Id: T0603702575
Status: Open - Case Begin Date
Status Date: 10/10/1991

Global Id: T0603702575
Status: Open - Eligible for Closure
Status Date: 11/06/2014

Global Id: T0603702575
Status: Open - Site Assessment
Status Date: 10/10/1991

Regulatory Activities:
Global Id: T0603702575
Action Type: ENFORCEMENT
Date: 11/05/2014
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0603702575
Action Type: Other
Date: 10/10/1991
Action: Leak Discovery

Global Id: T0603702575
Action Type: Other
Date: 10/10/1991
Action: Leak Reported

Global Id: T0603702575
Action Type: RESPONSE
Date: 07/15/2014
Action: Monitoring Report - Quarterly

Global Id: T0603702575
Action Type: RESPONSE
Date: 01/29/2013
Action: Site Investigation Workplan - Regulator Responded

Global Id: T0603702575
Action Type: RESPONSE
Date: 08/18/2014
Action: Other Workplan - Regulator Responded

ARCO #1680 (Continued) **S101583692**

Global Id: T0603702575
Action Type: ENFORCEMENT
Date: 11/06/2014
Action: Notification - Public Notice of Case Closure

Global Id: T0603702575
Action Type: ENFORCEMENT
Date: 03/27/2013
Action: Staff Letter

Global Id: T0603702575
Action Type: ENFORCEMENT
Date: 03/13/2015
Action: State Water Board Closure Order

Global Id: T0603702575
Action Type: RESPONSE
Date: 02/01/1994
Action: Site Assessment Report

Global Id: T0603702575
Action Type: RESPONSE
Date: 09/30/1992
Action: Interim Remedial Action Plan

Global Id: T0603702575
Action Type: RESPONSE
Date: 02/01/1988
Action: Tank Removal Report / UST Sampling Report

Global Id: T0603702575
Action Type: RESPONSE
Date: 08/18/1993
Action: Site Assessment Report

Global Id: T0603702575
Action Type: RESPONSE
Date: 03/22/1995
Action: Site Assessment Report

Global Id: T0603702575
Action Type: RESPONSE
Date: 04/08/2008
Action: Site Assessment Report

Global Id: T0603702575
Action Type: RESPONSE
Date: 03/20/2003
Action: Preliminary Site Assessment Workplan

Global Id: T0603702575
Action Type: RESPONSE
Date: 12/16/1993
Action: Soil and Water Investigation Report

Global Id: T0603702575
Action Type: RESPONSE

ARCO #1680 (Continued) **S101583692**

Date: 04/10/1992
Action: Interim Remedial Action Plan

Global Id: T0603702575
Action Type: ENFORCEMENT
Date: 04/11/2011
Action: Staff Letter - #1

Global Id: T0603702575
Action Type: ENFORCEMENT
Date: 04/11/2011
Action: Petition Submitted for Review

Global Id: T0603702575
Action Type: ENFORCEMENT
Date: 10/28/2015
Action: Closure/No Further Action Letter

Global Id: T0603702575
Action Type: ENFORCEMENT
Date: 10/28/2015
Action: Closure/No Further Action Letter

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: Not reported
Status: Preliminary site assessment underway
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: 24437-8375
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603708342
W Global ID: Not reported
Staff: Not reported
Local Agency: 19050
Cross Street: MAGNOLIA
Enforcement Type: Not reported
Date Leak Discovered: 10/8/1999
Date Leak First Reported: 10/8/1999
Date Leak Record Entered: Not reported
Date Confirmation Began: 5/22/2003
Date Leak Stopped: 10/8/1999
Date Case Last Changed on Database: Not reported
Date the Case was Closed: Not reported
How Leak Discovered: OM
How Leak Stopped: RPP
Cause of Leak: UNK
Leak Source: UNK
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): Not reported
Source of Cleanup Funding: UNK

ARCO #1680 (Continued) **S101583692**

Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 5/22/2003
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: ARCO
RP Address: P O BOX 6038 ARTESIA CA 90702
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: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 1589
Number: Not reported
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001589-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 4

Status: Not reported
Comp Number: 1589
Number: Not reported
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001589-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported

ARCO #1680 (Continued) **S101583692**

Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1589
Number: Not reported
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001589-000003
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1589
Number: Not reported
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001589-000004
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: PRM UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 1589
Number: 1
Board Of Equalization: 44-000506
Referral Date: 07-24-92
Action Date: 02-03-94
Created Date: 02-29-88
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

ARCO #1680 (Continued) **S101583692**

CA FID UST:

Facility ID:	19005556
Regulated By:	UTNKA
Regulated ID:	00026600
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	8185066541
Mail To:	Not reported
Mailing Address:	515 S FLOWER ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	NORTH HOLLYWOOD 916070000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

E15 **ARCO #1680** **LUST** **S102424180**
WSW **5158 LAUREL CANYON BLVD** **N/A**
1/4-1/2 **STUDIO CITY, CA 91604**
0.292 mi.
1540 ft. **Site 2 of 2 in cluster E**

Relative:
Higher

Actual:
646 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	916040452	
Status:	Preliminary site assessment underway	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603702575	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	MAGNOLIA	
Enforcement Type:	Not reported	
Date Leak Discovered:	10/10/1991	
Date Leak First Reported:		10/10/1991
Date Leak Record Entered:	4/7/1992	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		12/7/1999
Date the Case was Closed:		Not reported
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	OLD CASENO WAS 040792-07	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		7974.78390121720664126903067 2

ARCO #1680 (Continued) **S102424180**

Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	10/10/1991
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	310
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	=
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	ARCO PRODUCTS CO.
RP Address:	17315 STUDEBAKER RD., CERRITOS, 90701
Program:	LUST
Lat/Long:	34.1642771 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	DURING PREDRILL ANALYSIS FOR A TANK REPLACEMENT A BORE HOLE INDICATED THE OVA + 1000 PTS/M TO DEPTH OF 40'. INVESTIGATION IS CONTINUING. 12/7/99 DISPENSER SOIL SAMPLING RPT

F16 **RAPID GAS NO. 28** **LUST U001568619**
NW **5544 LAUREL CANYON BOULEVARD** **HIST UST N/A**
1/4-1/2 **NORTH HOLLYWOOD, CA 91607**
0.391 mi.
2062 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
659 ft.

LUST:

Region:	STATE
Global Id:	T0603762757
Latitude:	34.171852
Longitude:	-118.39608
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/01/2011
Lead Agency:	LOS ANGELES, CITY OF
Case Worker:	EL
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	Not reported
LOC Case Number:	19464
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603762757

RAPID GAS NO. 28 (Continued) **U001568619**

Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0603762757
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: T0603762757
Status: Completed - Case Closed
Status Date: 08/01/2011

Global Id: T0603762757
Status: Open - Case Begin Date
Status Date: 10/25/1998

Global Id: T0603762757
Status: Open - Remediation
Status Date: 08/09/2006

Global Id: T0603762757
Status: Open - Site Assessment
Status Date: 07/22/2002

Global Id: T0603762757
Status: Open - Site Assessment
Status Date: 08/09/2006

Regulatory Activities:
Global Id: T0603762757
Action Type: Other
Date: 10/25/1998
Action: Leak Discovery

Global Id: T0603762757
Action Type: Other
Date: 01/13/1999
Action: Leak Reported

Global Id: T0603762757
Action Type: ENFORCEMENT
Date: 08/01/2011
Action: Closure/No Further Action Letter - #1

Global Id: T0603762757
Action Type: REMEDIATION

RAPID GAS NO. 28 (Continued) **U001568619**

Date: 08/09/2006
Action: Soil Vapor Extraction (SVE)

HIST UST:
File Number: 00026452
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026452.pdf
Region: STATE
Facility ID: 00000029302
Facility Type: Gas Station
Other Type: Not reported
Contact Name: ROBERT D. ELLIOTT
Telephone: 8183491275
Owner Name: ELLDEVCO, INC.
Owner Address: 17069 KNAPP ST
Owner City,St,Zip: NORTHRIDGE, CA 91325
Total Tanks: 0003

Tank Num: 001
Container Num: 3
Year Installed: 1961
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1961
Tank Capacity: 00012000
Tank Used for: WASTE
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 1
Year Installed: 1961
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

17
NW
1/4-1/2
0.399 mi.
2105 ft.

FRANK'S CUSTOM LAB **SLIC S106484850**
12042 BURBANK BLVD. **ENF N/A**
NORTH HOLLYWOOD, CA 91601 **WIP**

Relative:
Higher

Actual:
661 ft.

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 12/22/2014

FRANK'S CUSTOM LAB (Continued) **S106484850**

Global Id:	SL603799060
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.172135
Longitude:	-118.372718
Case Type:	Cleanup Program Site
Case Worker:	GJH
Local Agency:	Not reported
RB Case Number:	111.1774
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

ENF:

Region:	4
Facility Id:	225305
Agency Name:	Frank's Custom Lab
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Not reported
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	WIP
Program Category1:	MONITORING
Program Category2:	MONITORING
# Of Programs:	1
WDID:	4WIP1111774
Reg Measure Id:	167784
Reg Measure Type:	Unregulated
Region:	4

FRANK'S CUSTOM LAB (Continued) **S106484850**

Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	06/17/2005
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	235099
Region:	4
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Notice of Violation
Effective Date:	03/09/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	03/09/2001
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 4WIP1111774
Description:	Notice of Violation sent 3/9/01 for overdue chemical use questionnaire.
Program:	WIP
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	$0.00
Initial Assessed Amount:	$0.00
Liability $ Amount:	$0.00
Project $ Amount:	$0.00
Liability $ Paid:	$0.00
Project $ Completed:	$0.00
Total $ Paid/Completed Amount:	$0.00

WIP:

Region:	4
File Number:	111.1774
File Status:	**Backlog**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

F18 **FORMER SHELL SERVICE STATION** **LUST** **S108935309**
NW **5555 LAUREL CANYON BL** **N/A**
1/4-1/2 **NORTH HOLLYWOOD, CA 91606**
0.401 mi.
2115 ft. **Site 2 of 2 in cluster F**

Relative:
Higher

Actual:
659 ft.

LUST:

Region:	STATE
Global Id:	T0603744890
Latitude:	34.171618
Longitude:	-118.396508
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/22/2009
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YL
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	916061734
LOC Case Number:	11085
File Location:	Regional Board
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603744890
Contact Type:	Regional Board Caseworker
Contact Name:	YI LU
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	Not reported
City:	R4 UNKNOWN
Email:	ylu@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0603744890
Contact Type:	Regional Board Caseworker
Contact Name:	MARYAM TAIDY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	LOS ANGELES
Email:	mtaidy@waterboards.ca.gov
Phone Number:	2135766741

Global Id:	T0603744890
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:	T0603744890
Status:	Completed - Case Closed
Status Date:	05/22/2009

FORMER SHELL SERVICE STATION (Continued) **S108935309**

Global Id: T0603744890
Status: Open - Case Begin Date
Status Date: 10/14/2002

Global Id: T0603744890
Status: Open - Referred
Status Date: 01/07/2009

Global Id: T0603744890
Status: Open - Remediation
Status Date: 10/14/2007

Global Id: T0603744890
Status: Open - Site Assessment
Status Date: 10/14/2007

Regulatory Activities:
Global Id: T0603744890
Action Type: RESPONSE
Date: 03/18/2009
Action: Other Report / Document

Global Id: T0603744890
Action Type: Other
Date: 10/14/2002
Action: Leak Discovery

Global Id: T0603744890
Action Type: Other
Date: 10/14/2002
Action: Leak Reported

Global Id: T0603744890
Action Type: RESPONSE
Date: 04/15/2009
Action: Other Report / Document

Global Id: T0603744890
Action Type: ENFORCEMENT
Date: 02/18/2009
Action: Staff Letter

Global Id: T0603744890
Action Type: RESPONSE
Date: 04/10/2009
Action: Other Report / Document

Global Id: T0603744890
Action Type: ENFORCEMENT
Date: 05/14/2009
Action: Site Visit / Inspection / Sampling

Global Id: T0603744890
Action Type: ENFORCEMENT
Date: 05/22/2009
Action: Closure/No Further Action Letter

FORMER SHELL SERVICE STATION (Continued) **S108935309**

Global Id:	T0603744890
Action Type:	ENFORCEMENT
Date:	03/10/2009
Action:	Staff Letter
Global Id:	T0603744890
Action Type:	REMEDIATION
Date:	10/30/2007
Action:	Not reported

19
NE
1/4-1/2
0.448 mi.
2366 ft.

OCCUPANT **SLIC S102811408**
11478 BURBANK BLVD. **ENF N/A**
NORTH HOLLYWOOD, CA 91601 **WIP**

Relative:
Higher

Actual:
648 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	12/23/2003
Global Id:	SL603799057
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.171879
Longitude:	-118.381572
Case Type:	Cleanup Program Site
Case Worker:	GJH
Local Agency:	Not reported
RB Case Number:	111.1698
File Location:	Not reported
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

ENF:

Region:	4
Facility Id:	245737
Agency Name:	Occupant
Place Type:	Facility
Place Subtype:	Not reported
Facility Type:	Not reported
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	34.172178
Place Longitude:	-118.381551
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported

OCCUPANT (Continued) **S102811408**

NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	WIP
Program Category1:	MONITORING
Program Category2:	MONITORING
# Of Programs:	1
WDID:	4WIP1111698
Reg Measure Id:	167618
Reg Measure Type:	Unregulated
Region:	4
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Never Active
Status Date:	02/20/2013
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	226435
Region:	4
Order / Resolution Number:	13267 Letter
Enforcement Action Type:	13267 Letter
Effective Date:	11/09/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	11/09/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 4WIP1111698
Description:	Not reported

OCCUPANT (Continued) **S102811408**

Program:	WIP
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	$0.00
Initial Assessed Amount:	$0.00
Liability $ Amount:	$0.00
Project $ Amount:	$0.00
Liability $ Paid:	$0.00
Project $ Completed:	$0.00
Total $ Paid/Completed Amount:	$0.00

WIP:

Region:	4
File Number:	111.1698
File Status:	**Backlog**
Staff:	UNIDENTIFIED
Facility Suite:	Not reported

20
ENE
1/2-1
0.580 mi.
3062 ft.

NORTH HOLLYWOOD SUPERIOR COURT **ENVIROSTOR** **S100351770**
5554-68 LANKERSHIM BOULEVARD **N/A**
NORTH HOLLYWOOD, CA 91601

Relative:
Lower

Actual:
640 ft.

ENVIROSTOR:

Facility ID:	19750073
Status:	Refer: EPA
Status Date:	05/18/2009
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	2
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Cleanup Chatsworth
Assembly:	39
Senate:	18
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	34.17152
Longitude:	-118.3781
APN:	2350008008
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING, PAINT/DEPAINT FACILITY, RETAIL - SERVICE STATION
Potential COC:	* HALOGENATED ORGANIC COMPOUNDS * HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * Metals - Other Inorganic Solid Waste * ORGANIC LIQUIDS WITH METALS * ORGANIC SOLIDS WITH HALOGENS * OXYGENATED SOLVENTS * CONTAMINATED SOIL * Sludge - Halogenated Compounds * Sludge - Paint * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SOLVENT MIXTURES * WASTE OIL & MIXED OIL * ORGANIC LIQUIDS (NONSOLVENTS) WITH HALOGENS * UNSPECIFIED ORGANIC LIQUID MIXTURE * AUTO SHREDDER WASTE Lead Polychlorinated biphenyls (PCBs

NORTH HOLLYWOOD SUPERIOR COURT (Continued) **S100351770**

Confirmed COC: NONE SPECIFIED
Potential Description: OTH, SOIL, SV
Alias Name: ALOHA AUTO BODY
Alias Type: Alternate Name
Alias Name: GEMINI AUTO SALES
Alias Type: Alternate Name
Alias Name: KIMS AUTO BODY
Alias Type: Alternate Name
Alias Name: OXNARD AUTO REPAIR
Alias Type: Alternate Name
Alias Name: 2350008008
Alias Type: APN
Alias Name: 19750073
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 12/10/1993
Comments: Site Investigation is ongoing, L.A. County lead.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/18/1992
Comments: The site is proposed to develop as North Hollywood Superior Court. The subsurface contamination at the site is greater than 10-13 feet. The contamination ia mainly from oil spilled hydrocarbon. The site is contaminates with light solvents, xylenes and toluenes, lead and PCBs. One above ground tank is on the property. The site consists of ten lots which include office buildings, restaurants, auto repair shops, auto body shops, and residential places. Some of the business activities at the site is still opeational. LA County is the lead. Therefore, NFA for the Department

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/10/2008
Comments: EPA signed off on the Site Screening.

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

21
East
1/2-1
0.673 mi.
3556 ft.

LANKERSHIM ELEMENTARY EXPANSION
11241/11261 MAGNOLIA BOULEVARD
NORTH HOLLYWOOD, CA 91601

ENVIROSTOR SCH | **S105628658 N/A**

Relative:
Lower

Actual:
625 ft.

ENVIROSTOR:

Facility ID:	19990040
Status:	Certified
Status Date:	03/12/2002
Site Code:	304259
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	.9
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	46
Senate:	18
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.16
Longitude:	-118.372
APN:	NONE SPECIFIED
Past Use:	* UNKNOWN, NONE, NONE
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	31000-NO
Potential Description:	SOIL
Alias Name:	LANKERSHIM ELEMENTARY EXPANSION
Alias Type:	Alternate Name
Alias Name:	LAUSD-11241 & 11261 MAGNOLIA BLVD.
Alias Type:	Alternate Name
Alias Name:	LAUSD-11241 & 11261 MAGNOLIA BLVD/VCA
Alias Type:	Alternate Name
Alias Name:	LAUSD-LANKERSHUM
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	110033607595
Alias Type:	EPA (FRS #)
Alias Name:	304036
Alias Type:	Project Code (Site Code)
Alias Name:	304129
Alias Type:	Project Code (Site Code)
Alias Name:	304259
Alias Type:	Project Code (Site Code)
Alias Name:	19990040
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* CEQA
Completed Date:	11/22/2001
Comments:	Not reported

LANKERSHIM ELEMENTARY EXPANSION (Continued) **S105628658**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 03/12/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 03/25/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/22/2003
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

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/24/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/04/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/06/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/22/2001
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

LANKERSHIM ELEMENTARY EXPANSION (Continued) **S105628658**

SCH:

Facility ID:	19990040
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	.9
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:	304259
Assembly:	46
Senate:	18
Special Program Status:	Not reported
Status:	Certified
Status Date:	03/12/2002
Restricted Use:	NO
Funding:	School District
Latitude:	34.16
Longitude:	-118.372
APN:	NONE SPECIFIED
Past Use:	* UNKNOWN, NONE, NONE
Potential COC:	NONE SPECIFIED, No Contaminants found
Confirmed COC:	31000-NO
Potential Description:	SOIL
Alias Name:	LANKERSHIM ELEMENTARY EXPANSION
Alias Type:	Alternate Name
Alias Name:	LAUSD-11241 & 11261 MAGNOLIA BLVD.
Alias Type:	Alternate Name
Alias Name:	LAUSD-11241 & 11261 MAGNOLIA BLVD/VCA
Alias Type:	Alternate Name
Alias Name:	LAUSD-LANKERSHUM
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	110033607595
Alias Type:	EPA (FRS #)
Alias Name:	304036
Alias Type:	Project Code (Site Code)
Alias Name:	304129
Alias Type:	Project Code (Site Code)
Alias Name:	304259
Alias Type:	Project Code (Site Code)
Alias Name:	19990040
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* CEQA
Completed Date:	11/22/2001
Comments:	Not reported

LANKERSHIM ELEMENTARY EXPANSION (Continued) **S105628658**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 03/12/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 03/25/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/22/2003
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

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/24/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/04/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/06/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/22/2001
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

22
NNE
1/2-1
0.740 mi.
3908 ft.

OXNARD/VICTORY ELEMENTARY SCHOOL NO. 10
LANKERSHIM BOULEVARD/BECK AVENUE
LOS ANGELES, CA 91601

ENVIROSTOR
SCH

S105840726
N/A

Relative:
Higher

Actual:
664 ft.

ENVIROSTOR:

Facility ID:	19750096
Status:	Inactive - Needs Evaluation
Status Date:	08/20/2002
Site Code:	304117
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	1.98
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Mark Malinowski
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	39
Senate:	18
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.17798
Longitude:	-118.3823
APN:	NONE SPECIFIED
Past Use:	VEHICLE MAINTENANCE
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	LAUSD-OXNARD/VICTORY ELEM #10/CDE
Alias Type:	Alternate Name
Alias Name:	LAUSD-OXNARD/VICTORY ELEM #10/VCA
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	OXNARD/VICTORY ELEMENTARY SCHOOL #10
Alias Type:	Alternate Name
Alias Name:	304063
Alias Type:	Project Code (Site Code)
Alias Name:	304117
Alias Type:	Project Code (Site Code)
Alias Name:	19750096
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:	04/22/2003
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

OXNARD/VICTORY ELEMENTARY SCHOOL NO. 10 (Continued) **S105840726**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	08/20/2002
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	02/11/2000
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:	19750096
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.98
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Mark Malinowski
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304117
Assembly:	39
Senate:	18
Special Program Status:	Not reported
Status:	Inactive - Needs Evaluation
Status Date:	08/20/2002
Restricted Use:	NO
Funding:	School District
Latitude:	34.17798
Longitude:	-118.3823
APN:	NONE SPECIFIED
Past Use:	VEHICLE MAINTENANCE
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	LAUSD-OXNARD/VICTORY ELEM #10/CDE
Alias Type:	Alternate Name
Alias Name:	LAUSD-OXNARD/VICTORY ELEM #10/VCA
Alias Type:	Alternate Name
Alias Name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name

OXNARD/VICTORY ELEMENTARY SCHOOL NO. 10 (Continued) **S105840726**

Alias Name: OXNARD/VICTORY ELEMENTARY SCHOOL #10
Alias Type: Alternate Name
Alias Name: 304063
Alias Type: Project Code (Site Code)
Alias Name: 304117
Alias Type: Project Code (Site Code)
Alias Name: 19750096
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: 04/22/2003
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

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 08/20/2002
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/11/2000
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

23
NNE
1/2-1
0.774 mi.
4086 ft.

Relative:
Higher

Actual:
663 ft.

NORTH HOLLYWOOD NEW ELEM. NO. 3 ADDITION **ENVIROSTOR** **S107736915**
LANKERSHIM BOULEVARD/TIARA STREET **SCH** **N/A**
LOS ANGELES, CA 91601

ENVIROSTOR:
Facility ID: 60000002
Status: No Further Action
Status Date: 07/01/2005
Site Code: 304397
Site Type: School Investigation
Site Type Detailed: School
Acres: 0.43

NORTH HOLLYWOOD NEW ELEM. NO. 3 ADDITION (Continued) **S107736915**

NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Javier Hinojosa
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 39
Senate: 18
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.1781
Longitude: -118.3813
APN: 2338-012-900, 2338012900
Past Use: NONE
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: 31000-NO
Potential Description: NMA
Alias Name: LAUSD-N HLLYWD NEW ELEM 3A WESTSIDE ADDT
Alias Type: Alternate Name
Alias Name: 2338-012-900
Alias Type: APN
Alias Name: 2338012900
Alias Type: APN
Alias Name: 304397
Alias Type: Project Code (Site Code)
Alias Name: 60000002
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: 07/05/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/15/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 06/07/2005
Comments: NFA

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/27/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report

NORTH HOLLYWOOD NEW ELEM. NO. 3 ADDITION (Continued) **S107736915**

Completed Date:	11/04/2002
Comments:	Phase 1
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:	60000002
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.43
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:	304397
Assembly:	39
Senate:	18
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	07/01/2005
Restricted Use:	NO
Funding:	School District
Latitude:	34.1781
Longitude:	-118.3813
APN:	2338-012-900, 2338012900
Past Use:	NONE
Potential COC:	NONE SPECIFIED, No Contaminants found
Confirmed COC:	31000-NO
Potential Description:	NMA
Alias Name:	LAUSD-N HLLYWD NEW ELEM 3A WESTSIDE ADDT
Alias Type:	Alternate Name
Alias Name:	2338-012-900
Alias Type:	APN
Alias Name:	2338012900
Alias Type:	APN
Alias Name:	304397
Alias Type:	Project Code (Site Code)
Alias Name:	60000002

NORTH HOLLYWOOD NEW ELEM. NO. 3 ADDITION (Continued) **S107736915**

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: 07/05/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/15/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 06/07/2005
Comments: NFA

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/27/2003
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 11/04/2002
Comments: Phase 1

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

Count: 3 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LOS ANGELES	S105628618	NORTH HOLLYWOOD NEW PRIMARY CENTER	ARCHWOOD STREET/BELLINGHAM AVE	91606	ENVIROSTOR, SCH
LOS ANGELES	S117041580	MRL MOL NORTH HOLLYWOOD STATION WE	SOUTH EAST CORNER OF CHANDLER	91601	NPDES
NORTH HOLLYWOOD	S105628461	NORTH HOLLYWOOD ELEMENTARY SCHOOL	LANKERSHIM BOULEVARD/CALIFA ST	91601	ENVIROSTOR, SCH

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 04/18/2016
Data Release Frequency: Quarterly

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: 11/13/2015
Date Data Arrived at EDR: 01/06/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 135

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/08/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/05/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/16/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 51

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/04/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/04/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/15/2016
Date Data Arrived at EDR: 02/17/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 44

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/18/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/16/2016
Number of Days to Update: 61

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

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

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 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 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 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 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

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
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: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 55
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
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: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/16/2016
Number of Days to Update: 61
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/11/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 49
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 08/20/2015
Date Data Arrived at EDR: 10/30/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 111

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
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: 11/24/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 34

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
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: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/04/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 04/01/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 02/29/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 58
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/22/2015
Date Data Arrived at EDR: 12/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 57
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/22/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 05/06/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 54
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 02/20/2016
Date Data Arrived at EDR: 02/23/2016
Date Made Active in Reports: 05/16/2016
Number of Days to Update: 83

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/13/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/04/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 09/30/2015
Date Data Arrived at EDR: 01/19/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 63

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/17/2015
Date Data Arrived at EDR: 12/04/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 76

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/01/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 11/25/2015
Date Data Arrived at EDR: 12/01/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 16

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/08/2016
Date Data Arrived at EDR: 03/11/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 54

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/08/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 57

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/16/2015
Date Data Arrived at EDR: 01/27/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 55

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/16/2016
Number of Days to Update: 61

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/16/2016
Number of Days to Update: 61

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/18/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/12/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/25/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/25/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/12/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/12/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 04/08/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 28

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/06/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/11/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/26/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015
Date Data Arrived at EDR: 07/09/2015
Date Made Active in Reports: 09/16/2015
Number of Days to Update: 69
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/08/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/04/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/26/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 11/23/2015
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 86

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/07/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/24/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/09/2016
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 03/02/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/04/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

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: 04/18/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 03/01/2016
Date Data Arrived at EDR: 03/03/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

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: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 40

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/30/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 02/08/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/05/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/22/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 48

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/22/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 01/26/2016
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 53

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/28/2016
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/17/2016
Date Data Arrived at EDR: 02/23/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 38

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/13/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 58

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/15/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Annually

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/11/2016
Date Data Arrived at EDR: 01/13/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 40
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/12/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 54
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/29/2016
Date Data Arrived at EDR: 03/08/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 57
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/16/2016
Date Data Arrived at EDR: 02/17/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 44
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/18/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/08/2016
Date Made Active in Reports: 05/16/2016
Number of Days to Update: 69
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/08/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 54
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 07/23/2015
Date Data Arrived at EDR: 09/15/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 28
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/16/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/15/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/23/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Quarterly

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: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 86

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/24/2016
Next Scheduled EDR Contact: 06/06/2016
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/11/2016
Date Data Arrived at EDR: 01/12/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 41

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/11/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/11/2016
Date Data Arrived at EDR: 01/14/2016
Date Made Active in Reports: 03/01/2016
Number of Days to Update: 47

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/11/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List
Cupa Facility List

Date of Government Version: 03/21/2016
Date Data Arrived at EDR: 03/22/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 43

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 02/19/2016
Date Data Arrived at EDR: 02/23/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 38

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 02/02/2016
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 18

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/24/2016
Date Data Arrived at EDR: 02/26/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 35

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/02/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/22/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 03/07/2016
Number of Days to Update: 31

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/02/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/04/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 28

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 03/16/2016
Date Data Arrived at EDR: 03/21/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 44

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 01/25/2016
Date Data Arrived at EDR: 01/27/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 26

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 03/01/2016
Date Data Arrived at EDR: 03/03/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 67

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/23/2016
Date Data Arrived at EDR: 02/25/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 36

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 02/09/2016
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 49

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/30/2016
Date Data Arrived at EDR: 04/01/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 38

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/01/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/19/2016
Date Data Arrived at EDR: 01/20/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 62

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/20/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/15/2015
Date Data Arrived at EDR: 01/29/2015
Date Made Active in Reports: 03/10/2015
Number of Days to Update: 40

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/25/2016
Next Scheduled EDR Contact: 05/09/2016
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/12/2016
Date Data Arrived at EDR: 01/15/2016
Date Made Active in Reports: 02/08/2016
Number of Days to Update: 24

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/11/2016
Next Scheduled EDR Contact: 04/25/2016
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/02/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 58

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 10/05/2015
Date Data Arrived at EDR: 10/08/2015
Date Made Active in Reports: 10/15/2015
Number of Days to Update: 7

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 02/26/2016
Date Data Arrived at EDR: 03/01/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 64

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

CUPA Facility List

Date of Government Version: 03/03/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 58

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 47

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 01/27/2016
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 18
Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 49
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 49
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/10/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 51
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/11/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/09/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 56
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/13/2016
Date Data Arrived at EDR: 04/15/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 24
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 01/22/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 60
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/21/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/02/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/06/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/02/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/06/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 52

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 03/03/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 05/06/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/06/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 04/08/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 26

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 10/14/2015
Date Data Arrived at EDR: 10/15/2015
Date Made Active in Reports: 11/16/2015
Number of Days to Update: 32

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/15/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 55

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 03/04/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 66

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/29/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 02/10/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 51

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 02/26/2016
Date Data Arrived at EDR: 03/01/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 64

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 03/18/2016
Date Data Arrived at EDR: 03/21/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 44

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/22/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 48

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/21/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 44

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 04/05/2016
Date Data Arrived at EDR: 04/08/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 26

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/01/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 34

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/28/2016
Next Scheduled EDR Contact: 07/11/2016
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/15/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 50

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 03/07/2016
Next Scheduled EDR Contact: 06/20/2016
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 03/08/2016
Date Data Arrived at EDR: 03/11/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 59

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/21/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/28/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 53

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/25/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/13/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 12/28/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 53

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/25/2016
Next Scheduled EDR Contact: 08/08/2016
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/26/2016
Date Data Arrived at EDR: 03/17/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 48

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/17/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 46

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 04/04/2016
Next Scheduled EDR Contact: 07/18/2016
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 02/22/2016
Number of Days to Update: 17

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/29/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/13/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/12/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 02/01/2016
Date Data Arrived at EDR: 02/03/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/06/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/14/2016
Next Scheduled EDR Contact: 06/27/2016
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVE
NORTH HOLLYWOOD, CA 91601

TARGET PROPERTY COORDINATES

Latitude (North):	34.166657 - 34° 9' 59.97''
Longitude (West):	118.389465 - 118° 23' 22.07''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	371929.5
UTM Y (Meters):	3781312.0
Elevation:	644 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630789 VAN NUYS, CA
Version Date:	2012
East Map:	5630791 BURBANK, 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).

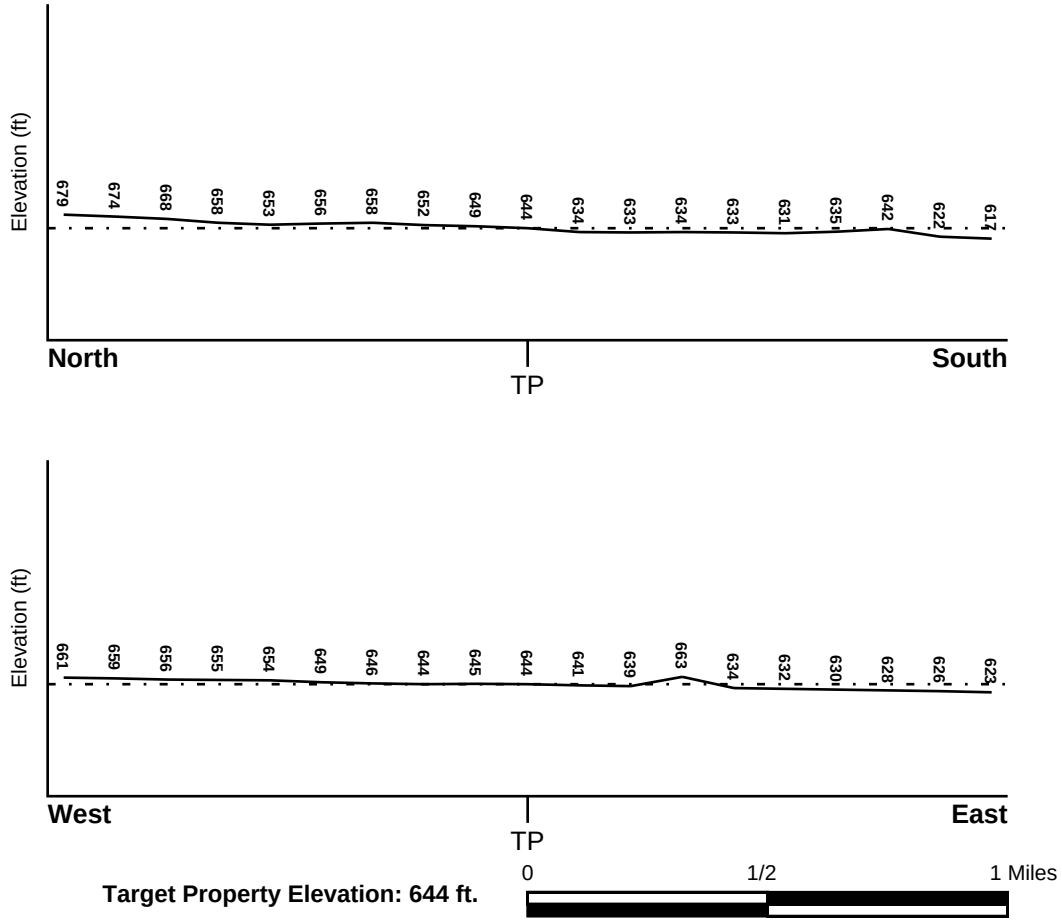
TOPOGRAPHIC INFORMATION

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 South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
LOS ANGELES, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06037C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
VAN NUYS	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:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Surficial Soil Types:
loam
clay
silt loam
loamy sand
sandy loam
fine sand
clay loam
gravelly - sandy loam
coarse sand
gravelly - sand
sand

Shallow Soil Types:
fine sandy loam
gravelly - loam
sand
silty clay

Deeper Soil Types:
stratified
clay loam
silty clay loam
gravelly - sandy loam
coarse sand
sand
weathered bedrock
very fine sandy loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

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

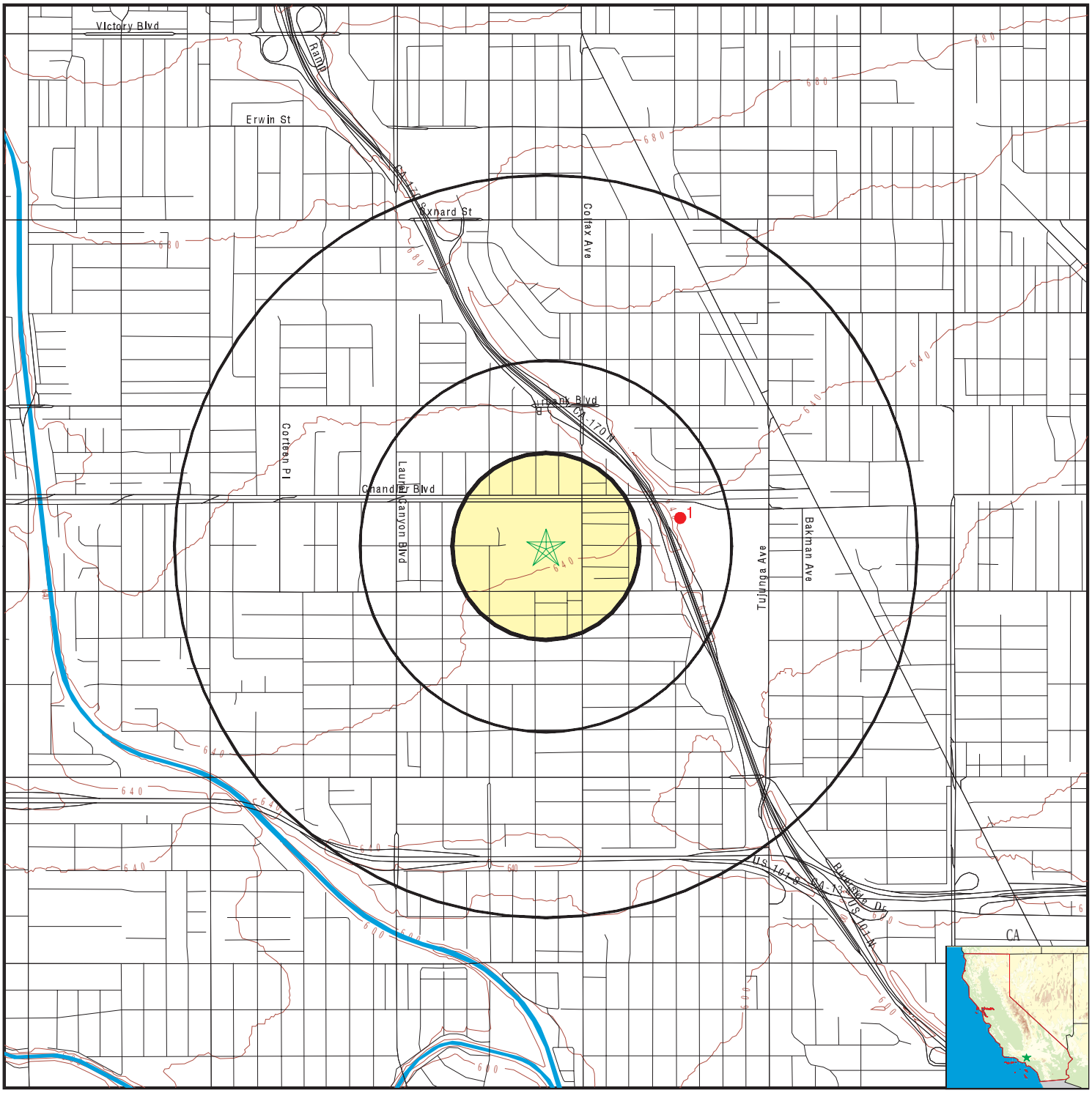
MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG11000204594	1/4 - 1/2 Mile ENE

PHYSICAL SETTING SOURCE MAP - 4633410.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	NORTH HOLLYWOOD HIGH SCHOOL	CLIENT:	E2 Managetech Solutions
ADDRESS:	5231 Colfax Ave North Hollywood CA 91601	CONTACT:	KEVIN LIN
		INQUIRY #:	4633410.2s
LAT/LONG:	34.166657 / 118.389465	DATE:	May 31, 2016 5:15 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
ENE **OIL_GAS** **CAOG11000204594**
1/4 - 1/2 Mile

District nun:	1	Api number:	03705314
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Conoco Inc.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	18
Township:	01N	Range:	14W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Hollywood Freeway	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204594		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91607	95	0

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix F

Regulatory Agency Records

Date run : 9/24/2014 8:09:00AM
Run by :
FA0036806 NORTH HOLLYWOOD HIGH SCHOOL

LA County Fire Department
Clerical Facility Update

Report # : 5301
Page 1 of 1
Version 131021

OWNER FILE INFORMATION

Owner ID: OW0045094
Owner Name: LOS ANGELES USD — Tax ID : 95-6001908
Owner DBA: NORTH HOLLYWOOD HIGH SCHOOL — Drvr Licns :
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:

FACILITY FILE INFORMATION

Facility ID: FA0036806 — Account ID: AR0043834
Facility Name: NORTH HOLLYWOOD HIGH SCHOOL — CERS ID:
No. of Employee: 5
Site Location: 5231 COLFAX AVE (VALLEY VILLAGE)
NORTH HOLLYWOOD, CA 91601
Phone: 818-769-8510
Mailing Address: 333 S BEAUDRY AVE, 20TH FL
LOS ANGELES, CA 90017
Operator/Care of: — E-Mail Address:
District: N - NORTH
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:

0068551

GENERAL HEALTH PROGRAM ELEMENTS

Record ID	Current Program Element	Current Status	# of Unit	EPA #	Effective Date Beg.	Effective Date End	Last Inspection Date
PR0059292	1001 - HW GEN, 0-5 EMPLOYEES	Active, billable		CAD982037855	06/01/06		09/17/2017
PR0086125	8040 - CALIFORNIA ELECTRONIC REPORTING SURCHARGE	Inactive, non-billable					

Date run: 4/2/2014 9:07:18AM
Run by:
FA0036806 NORTH HOLLYWOOD HIGH SCHOOL

LA County Fire Department
Facility Information Report

Report # : 5302

V130115

OWNER FILE INFORMATION

☐ Ownership change: _____ Effective Date ☒ Update ☐ Out of Business _____ Effective Date

Owner ID: OW0045094
Owner Name: LOS ANGELES USD
Owner DBA: NORTH HOLLYWOOD 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 : 95-6001908
Drvr Licns :

CERS Tracking:
User Login: Status: Date:
Note:

FACILITY FILE INFORMATION

CERS ID:
Facility ID: FA0036806
Account ID: AR0043834
Facility Name: NORTH HOLLYWOOD HIGH SCHOOL
No. of Employee: 5
Site Location: 5231 COLFAX AVE (VALLEY VILLAGE)
NORTH HOLLYWOOD, CA 91601
Phone: 818-769-8510
EPA ID CERS # CAD982037855
Mailing Address: 333 S BEAUDRY AVE, 20TH FL
LOS ANGELES, CA 90017
Operator/Care of:
E-Mail : **Not Specified**
District: N - NORTH
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:

GENERAL HEALTH PROGRAM ELEMENTS

Record ID	Current Program Element	Current Status	# of Unit	Effective Date Beg.	Effective Date End	------- Changes ------- Program Element	Status
PR0059292	1001 - HW GEN, 0-5 EMPLOYEES	Active, billable		06/01/06			
PR0086125	8040 - CALIFORNIA ELECTRONIC REPORTING SURCHARGE	Inactive, non-billable					

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, Tons, Yards					

CONSENT GIVEN BY: Laura Maxwell
INSPECTOR SIGNATURE: Dgany
EMPLOYEE ID: 132
1st DATE & TIME OF INSPECTION: 4/7/2014
2nd DATE & TIME OF INSPECTION:

4/2/2014 9:07:18AM

LA County Fire Department
Facility Information Report

Report # : 5302
Page 3 of 3
V130115

5806 NORTH HOLLYWOOD HIGH SCHOOL

Field Notes

LIST ORDER OF INSPECTION AS FOLLOWS: I. OPENING CONFERENCE II. WALK THROUGH III. DOCUMENTS IV. CLOSING CONFERENCE V. VIOLATIONS

NO photo lab. No metal shop.

(4) Labs - Chem & Bio
214 - Main Lab. - 1X 5g bucket.
221 - chemistry - spill kits
203 - Biology - 1X 5g bucket.
202 - Biology - small quantities

Automotive Shop. #170 -
USED OIL -> 55gX1
filters -> None generated yet
USED coolant -> None generated yet
parts washer -> small sg capacity Aqueous

Paint Garage -> 1X 30g & Waste paint debris.

fuel bunker -> gas X55X2 fresh fuel.

Wood Shop -> Waste thinner/Acetone
transp. by Professor at end of session.

CONSENT GIVEN BY: _____ INSPECTOR SIGNATURE: _____ EMPLOYEE ID: _____

1st DATE & TIME OF INSPECTION: _____ 2nd DATE & TIME OF INSPECTION: _____

DTSC.02521.0875

e 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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAD982037855	1	(800) 451-8346	010202792 JJK

GENERATOR

5. Generator's Name and Mailing Address
LOS ANGELES UNIFIED SCHOOL DISTRICT-OEHS
333 S. BEAUDRY AVE. 28TH FLOOR
LOS ANGELES, CA 90017
Generator's Phone: (213) 241-3199CONTACT: SOE AUNG

Generator's Site Address (if different than mailing address)
NORTH HOLLYWOOD H.S.
5231 COLFAX AVENUE
NORTH HOLLYWOOD, CA 91601

6. Transporter 1 Company Name
BDC SPECIAL WASTE SERVICES
U.S. EPA ID Number
CAR000181891

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
AZUSA LAND RECLAMATION
1211 W. GLADSTONE
AZUSA, CA 91702
Facility's Phone: (626) 224-9127
U.S. EPA ID Number
CAD009007626

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. NA2212, ASBESTOS, 9, PGIII, RQ	5	BA	1	Y	151		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
BDC SPECIAL WASTE SERVICES 1211 W. GLADSTONE AVE. AZUSA, CA 91702 (626) 969-1384
3E Contract #9026 Profile#CA304450,
(ERG#171) SCAQMD 21865 E. COPLEY DR. DIAMOND BAR, CA. 91789 (909) 396-2000
ASBESTOS REMOVAL REQUIREMENT 40 CFR 61 (BAGGED SEALED & LABELED) NATIONAL DEMO

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: JOHN CORBETT
Signature:
Month: 7 Day: 19 Year: 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: ROGELIO RODRIGUEZ
Signature:
Month: 07 Day: 19 Year: 13
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

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. H132 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: [illegible]
Signature:
Month: 07 Day: 24 Year: 13

DTSC 02098 0609

Use 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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAD982037855	1 of 1	310 3549999	008624555 JJK

GENERATOR

5. Generator's Name and Mailing Address
LAUSD ATTN: Sue 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)
North Hollywood H.S
5231 Colfax Ave
North Hollywood CA 91606

6. Transporter 1 Company Name
Ecology Control Ind.

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: 562-432-6445

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		
	1. •WASTE FLAMMABLE LIQUID, N.O.S., 3, UN1993, III. (LAB PACK) ERG#128	1	DM	150 EST.	P	D001	F003	551
	2. •NON RCRA HAZARDOUS WASTE LIQUID (LAB PACK)	1	DM	200 EST.	P	NA	NA	551
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1) 1X55DM, LP1
2) 1X55DM, LP2 YLP38041

D165784

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: Horacio Godina — Signature — Month 6 Day 1 Year 12

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Feliciano — Signature — Month 6 Day 1 Year 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

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.
H141	H141		

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: J Belleza — Signature: J Belleza — Month 09 Day 07 Year 12

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

11187 0600

DTSC. 02024: 1331

Use 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: CAD982037855
2. Page 1 of: 1
3. Emergency Response Phone: 909-625-6645
4. Manifest Tracking Number: 008626559 JJK

GENERATOR

5. Generator's Name and Mailing Address
LAUSD
333 S. BEAUDRY AVE 27TH FL
LOS ANGELES CA 90017
Att: SOE AUNG
Generator's Phone: 213 241-3888

Generator's Site Address (if different than mailing address)
LAUSD/NORTH HOLLYWOOD HS
5231 COLFAX AVE
NORTH HOLLYWOOD CA 91601

6. Transporter 1 Company Name: ECOLOGY CONTROL INDUSTRIES (MONTCLAIR)
U.S. EPA ID Number: CAD982030173

7. Transporter 2 Company Name: Industrial Waste Utilization
U.S. EPA ID Number: CAD980585293

8. Designated Facility Name and Site Address
AA SYDCOL, LLC
1925 S. FACTOR AVE.
YUMA AZ 85365
Facility's Phone: 928 783-3678
U.S. EPA ID Number: AZR000501510

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
	1. Non-RCRA, Hazardous Waste, Liquid (OIL & WATER)	2	DM	90	G	223
	2. Non-RCRA, Hazardous Waste, Liquid (ANTIFREEZE)	1	DM	35	G	135
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Wear proper safety equipment.
ECI Job# 24-1547
1) 2 x 55 # L20405-LL1
2) 1 x 55# L20406-LL

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: Al Jimenez
Signature:
Month 3 Day 15 Year 12

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: RAFAEL GONZALEZ
Signature: Rafael Gonzalez
Month 3 Day 15 Year 12

Transporter 2 Printed/Typed Name: Ronald Albright
Signature: Ronald Albright
Month 3 Day 23 Year 12

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

18b. Alternate Facility (or Generator) Manifest Reference Number:
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. H141 2. H141 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: ENNIS W. KOEGEN
Signature:
Month 3 Day 31 Year 12

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR STATE (IF REQUIRED)

DTSC. 02009. 0034

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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAD982037855	1	714-620-4686	008652761 JJK

GENERATOR

5. Generator's Name and Mailing Address
Los Angeles Unified School District - EHS
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)
North Hollywood High 5231 Colfax Ave.
North Hollywood, CA 91601

6. Transporter 1 Company Name
Earthwise Services L.L.C.
U.S. EPA ID Number
CAR000152058

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
AZUSA LAND RECLAMATION
1211 W. Gladstone
Azusa, CA 91702
Facility's Phone: 626-334-0719
U.S. EPA ID Number
CAD009007826

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		
	1. RQ, ASBESTOS, 9, NA2212, PGIII	1	CM	40	Y	151		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
24HR Emergency Contact Earthwise Services L.L.C. (714) 620-4686. SCAQMD 21865 E. Copley Dr Diamond Bar CA 91775. Use of personal Safety equipment is required. Asbestos removal requirement 40CFR61 (Bagged, Labeled, Sealed)

ACE 104969 CA

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: Horacio Godina (ON BEHALF OF) Signature: [signature] Month: 03 Day: 23 Year: 12

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: SCOTT WALLACE Signature: [signature] Month: 03 Day: 23 Year: 12

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

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.
H132			

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] Signature: [signature] Month: 03 Day: 23 Year: 12

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

DTSC. 02314. 1890

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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAD982037855	1	714-620-4686	010469034 JJK

5. Generator's Name and Mailing Address
Los Angeles Unified School District - OEHS
333 S. Beaudry Ave 28th Floor
Los Angeles, CA 90017
Generator's Phone: 213-241-3189

Generator's Site Address (if different than mailing address)
N. Hollywood H.S. 5231 Colfax
North Hollywood, CA 91601

6. Transporter 1 Company Name
Earthwise Services L.L.C. (714)620-4686
U.S. EPA ID Number: CAR000152058

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
AZUSA LAND RECLAMATION
1211 W. Gladstone
Azusa, CA 91702
Facility's Phone: 626-224-9127
U.S. EPA ID Number: CAD009007626

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
	1. ~~RQ ASBESTOS, 9, NA2212, PGIII~~ RQ NA2212, ASBESTOS, 9, PG III	16	BA	1	Y	151
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
24HR Emergency contact Earthwise Services L.L.C. (714) 620-4686. SCAQMD 21865 E. Copley Dr Diamond Bar CA 91775
Use of Personal Safety Equipment is required. Asbestos removal requirement 40CFR61 (Bagged, Sealed, Labeled)
AIR
Profile 104969CA

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: Jim McFarland
Signature: [signature]
Month 12 Day 27 Year 12

INT'L
16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER
17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: SCOTT WALLACE
Signature: Scott Wallace
Month 12 Day 27 Year 12
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY
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. [illegible] 2. 3. 4.

Printed/Typed Name: [illegible]
Signature: [illegible]
Month Day Year

OFFICIAL INSPECTION REPORT

Los Angeles County Fire Department - Health Hazardous Materials Division
Certified Unified Program Agency - Participating Agency
North District Office
14425 Olive View Drive,
Sylmar, CA 91342
Telephone: (818) 364-7120 / Fax: (818) 364-7127
www.fire.lacounty.gov.hhmd

Business: NORTH HOLLYWOOD HIGH SCHOOL			**Inspection Date:** 09/17/2014
Address: 5231 COLFAX AVE	**City/State:** NORTH HOLLYWOOD, CA 91601		**Telephone:** (818) 769-8510
Owner: LOS ANGELES USD		**Email:**	
FA #: FA0036806	**PR:** PR0059292	**Program Element:** HW GEN, 0-5 EMPLOYEES	**Inspection Type:** ROUTINE INSPECTION

OUT = Out of Compliance COS = Corrected on Site RPT = Repeat Violation

OVERALL INSPECTION COMMENTS

Consent Given By:
Laura Maxwell, Environmental Safety Officer

No Significant Violations observed

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

Laura Maxwell
Environmental Safety Officer

Daniel Yniguez
Health Hazardous Materials Specialist II

8186

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

(2013/2014)

MAIN SITE

Facility ID:	FA0012371
Issue Date:	12/6/2013
Valid From:	7/1/2013
Valid To:	6/30/2014
Haz Waste BusID:	AR0043834
Active Sites:	1 of 1

**********AUTO**5-DIGIT 90017 5
LAUSD-NORTH HOLLYWOOD HIGH S SOE AUNG 873
333 S BEAUDRY AVE 28TH FL
LOS ANGELES CA 90017-1466

CONSOLIDATED PERMIT

Los Angeles Certified Unified Program Agency

Los Angeles Fire Department

Hazardous Waste and Hazardous Materials Management Program

Business Name
LAUSD - NORTH HOLLYWOOD HIGH SCHOOL

Permit Site Address:
5231 N COLFAX AVE
VALLEY VILLAGE, CA 91601

Owned By:
LOS ANGELES UNIFIED SCHOOL DIS
Has paid in full the required fee in the amount of $1,505.00 on 11/29/2013

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 8 TO 15 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 (2013/2014) CONSOLIDATED PERMIT UNTIL *September 30, 2014*
IF YOU MEET THE DEADLINES FOR PAYMENT FOR THE NEXT FISCAL YEAR AND MEET ALL OTHER REQUIREMENTS

BY:

James G. Featherstone
Interim 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.

California Environmental Reporting System (CERS) — Business Activities

Site Identification

LAUSD - NORTH HOLLYWOOD HIGH SCHOOL
5231 N COLFAX AVE
VALLEY VILLAGE, CA 91601
County
Los Angeles

CERS ID
1024
EPA ID
CAD98

Submittal Status

Submitted on 3/31/2014 by *Laura Maxwell* of LAUSD - NORTH HOLLYWOOD HIGH SCHOOL (VALLEY VILLAGE, CA)

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, 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 is regulated under more restrictive inventory local reporting requirements (shown below if present); 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

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?	No

Hazardous Waste

Is your facility a Hazardous Waste Generator?	Yes
Does your facility treat hazardous waste on-site?	No
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	No
Does your facility consolidate hazardous waste generated at a remote site?	No
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	No
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	No
Is your facility a Household Hazardous Waste (HHW) Collection site?	No

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	No
Does your facility own or operate ASTs above these thresholds? Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.	No
Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	No

Additional Information

No additional comments provided.

California Environmental Reporting System (CERS) — Business Owner Operator

Facility/Site

LAUSD - NORTH HOLLYWOOD HIGH SCHOOL
5231 N COLFAX AVE
VALLEY VILLAGE, CA 91601

CERS ID
10244893

Submittal Status

Submitted on 3/31/2014 by *Laura Maxwell* of LAUSD - NORTH HOLLYWOOD HIGH SCHOOL (VALLEY VILLAGE, CA)

Identification

LOS ANGELES UNIFIED SCHOOL DISTRICT

Operator Phone	Business Phone	Business Fax	Beginning Date	Ending Date
(213) 241-3199	(818) 753-6200	(818) 508-7124	1/1/2014	12/31/2014

Dun & Bradstreet	SIC Code	Primary NAICS
	8210	61111

Facility/Site Mailing Address

333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017

Primary Emergency Contact

RANDALL DELLING
Title
PRINCIPAL

Business Phone	24-Hour Phone	Pager Number
(818) 753-6200	(213) 625-6631	

Owner

LOS ANGELES UNIFIED SCHOOL DIS
(213) 241-3199
333 S BEAUDRY AVE, 28TH FL
LOS ANGELES, CA 90017

Secondary Emergency Contact

RICHARD MENDOZA
Title
PLANT MANAGER

Business Phone	24-Hour Phone	Pager Number
(818) 753-6200	(213) 625-6631	

Billing Contact

LOS ANGELES UNIFIED SCHOOL DISTRICT
(213) 241-3199
333 S BEAUDRY AVE, 28TH FL
LOS ANGELES, CA 90017

Environmental Contact

PATRICK SCHANEN
(213) 241-3199
333 S, BEAUDRY AVENUE, 28TH FLOOR
Los ANGELES,, CA 90017

Name of Signer	Signer Title	Document Preparer
RANDALL DELLING	PRINCIPAL	LAURA MAXWELL

Additional Information

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

LOS ANGELES UNIFIED SCHOOL DIS
Phone
(213) 241-3199
Mailing Address
333 S BEAUDRY AVE, 28TH FL
LOS ANGELES, CA 90017

Assessor Parcel Number (APN)

Number of Employees
3

Facility ID
LACoFA0012371

California Environmental Reporting System (CERS) — Hazardous Materials Inventory

Facility/Site

LAUSD - NORTH HOLLYWOOD HIGH SCHOOL
5231 N COLFAX AVE
VALLEY VILLAGE, CA 91601

CERS ID: **10244893**

Submittal Status

Submitted on 3/31/2014 by *Laura Maxwell* of LAUSD - NORTH HOLLYWOOD HIGH SCHOOL (VALLEY VILLAGE, CA)

Chemical Identification and Physical Properties

Chemical Name		CERS Chemical Library ID
Gasoline		CCL-102073
Common Name	**CAS Number**	**US EPA SRS Number**
Gasoline	8006-61-9	

Physical State	Hazardous Material Type	Trade Secret
Liquid	Pure	

Chemical Hazard Classification

EHS	Fire Code Hazard Classes (by priority)	Federal Hazard Categories		DOT Hazard Class
	Flammable Liquid, Class I-B	Yes	Fire	3 - Flammable and Combustible Liquids
Radioactive	Other Health Hazard		Reactive	State Waste Code
	Irritant		Pressure Release	
Curies			Acute Health	
0		Yes	Chronic Health	

Inventory Location and Quantity

Chemical Location	Average Daily Amount	Maximum Daily Amount	Units
Fuel Bunker	55	110	gallons
Chemical Location Confidential EPCRA	**Largest Container**	**Annual Waste Amount**	
	55	0	
Map# (Optional) **Grid# (Optional)**	**Days on Site**		
	365		

Inventory Storage Information

	Aboveground Tank	Can	Box	Tank Truck, Tank Wagon
	Underground Tank	Carboy	Cylinder	Tank Car, Rail Car
	Tank Inside Building	Silo	Glass Bottle	Other
Yes	Steel Drum	Fiber Drum	Plastic Bottle	
	Plastic/Non-Metallic Drum	Bag	Tote Bin	

Storage Pressure	Storage Temperature
Ambient	Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS	Additional Mixture Components

Additional Chemical/Material Description

Additional Chemical Material Information

California Environmental Reporting System (CERS) — Hazardous Materials Inventory

Facility/Site

LAUSD - NORTH HOLLYWOOD HIGH SCHOOL
5231 N COLFAX AVE
VALLEY VILLAGE, CA 91601

CERS ID: **10244893**

Submittal Status

Submitted on 3/31/2014 by *Laura Maxwell* of LAUSD - NORTH HOLLYWOOD HIGH SCHOOL (VALLEY VILLAGE, CA)

Chemical Identification and Physical Properties

Chemical Name: Diesel Fuel No. 2
Common Name: Diesel Fuel No. 2
CAS Number: 68476-34-6
CERS Chemical Library ID: CCL-103045
US EPA SRS Number:
Physical State: Liquid
Hazardous Material Type: Pure
Trade Secret:

Chemical Hazard Classification

EHS:
Radioactive:
Curies: 0
Fire Code Hazard Classes (by priority): Combustible Liquid, Class II
Federal Hazard Categories: Yes — Fire; Reactive; Pressure Release; Yes — Acute Health; Chronic Health
DOT Hazard Class: 3 - Flammable and Combustible Liquids
State Waste Code:

Inventory Location and Quantity

Chemical Location: Fuel Bunker
Chemical Location Confidential EPCRA:
Map# (Optional):
Grid# (Optional):
Average Daily Amount: 30
Maximum Daily Amount: 55
Units: gallons
Largest Container: 55
Annual Waste Amount: 0
Days on Site: 365

Inventory Storage Information

	Aboveground Tank	Can	Box	Tank Truck, Tank Wagon
	Underground Tank	Carboy	Cylinder	Tank Car, Rail Car
	Tank Inside Building	Silo	Glass Bottle	Other
Yes	Steel Drum	Fiber Drum	Plastic Bottle	
	Plastic/Non-Metallic Drum	Bag	Tote Bin	

Storage Pressure: Ambient
Storage Temperature: Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS	Additional Mixture Components

Additional Chemical/Material Description

Additional Chemical Material Information

ifornia Environmental Reporting System (CERS) — Hazardous Materials Inventory

Facility/Site

LAUSD - NORTH HOLLYWOOD HIGH SCHOOL
5231 N COLFAX AVE
VALLEY VILLAGE, CA 91601

CERS ID
10244893

Submittal Status

Submitted on 3/31/2014 by *Laura Maxwell* of LAUSD - NORTH HOLLYWOOD HIGH SCHOOL (VALLEY VILLAGE, CA)

Chemical Identification and Physical Properties

Chemical Name
Oxygen

CERS Chemical Library ID
CCL-107491

Common Name
Oxygen

CAS Number
7782-44-7

US EPA SRS Number
154302

Physical State
Gas

Hazardous Material Type
Pure

Trade Secret

Chemical Hazard Classification

EHS

Fire Code Hazard Classes (by priority)
Oxidizing, Class 2

Radioactive

Curies
0

Federal Hazard Categories
Yes — Fire
Reactive
Yes — Pressure Release
Acute Health
Chronic Health

DOT Hazard Class
2.2 - Nonflammable Gases

State Waste Code

Inventory Location and Quantity

Chemical Location
AUTO SHOP

Chemical Location Confidential EPCRA

Map# (Optional)

Grid# (Optional)

Average Daily Amount
140

Maximum Daily Amount
280

Units
cubic feet

Largest Container
280

Annual Waste Amount
0

Days on Site
365

Inventory Storage Information

Aboveground Tank
Underground Tank
Tank Inside Building
Steel Drum
Plastic/Non-Metallic Drum
Can
Carboy
Silo
Fiber Drum
Bag
Box
Yes — Cylinder
Glass Bottle
Plastic Bottle
Tote Bin
Tank Truck, Tank Wagon
Tank Car, Rail Car
Other

Storage Pressure
Above Ambient

Storage Temperature
Ambient

Mixture Components

Hazardous Component Name	CAS Number	% by Weight	EHS	Additional Mixture Components

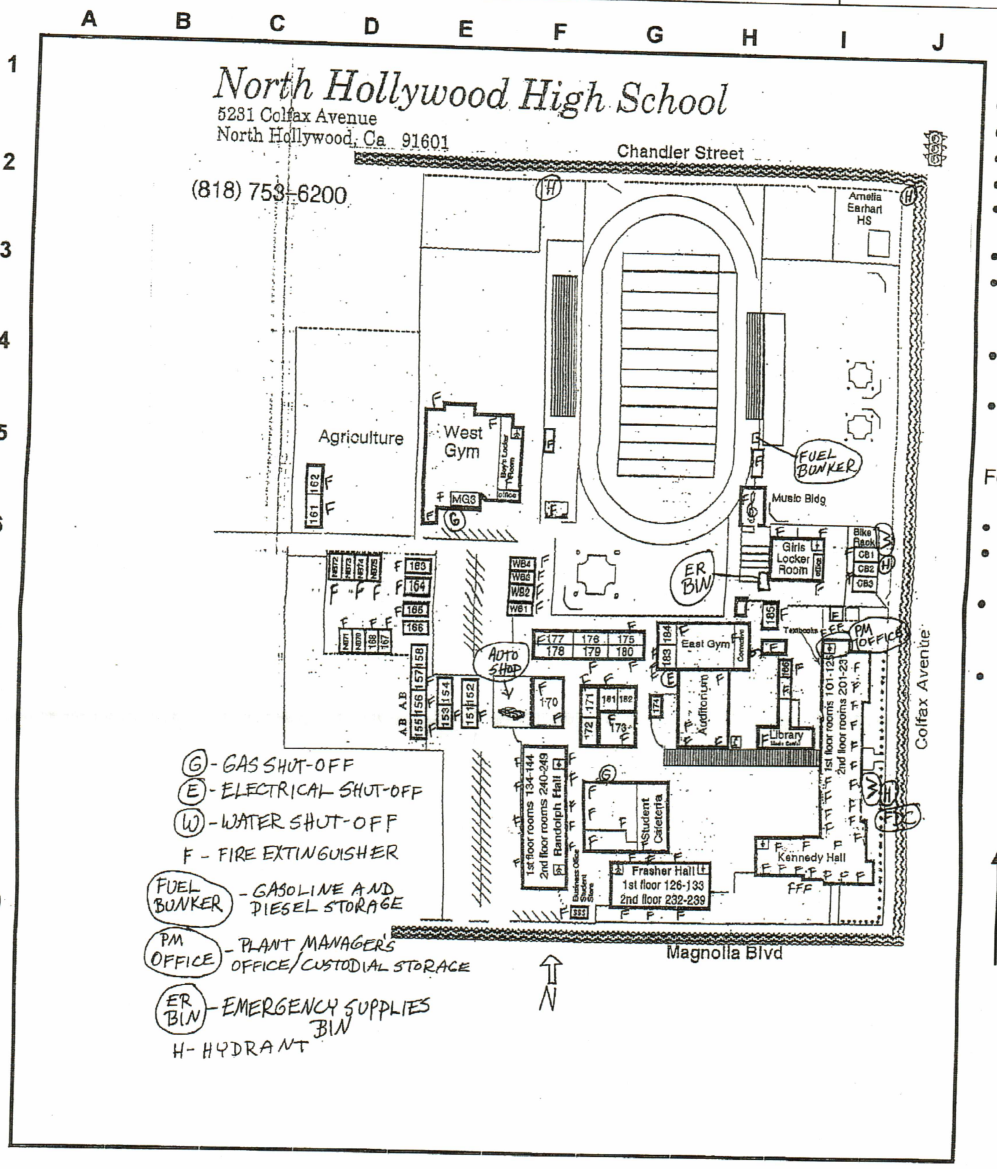
Additional Chemical/Material Description

Additional Chemical Material Information

Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN

SITE MAP

BUSINESS NAME					
North Hollywood High School					3
SITE ADDRESS	103	CITY	104	ZIP CODE	105
5231 Colfax Avenue		North Hollywood		91601	
DATE MAP DRAWN		MAP #		FACILITY ID #	
3/31/14		N/A		FA0012371	1



For Site Map

- Scale of Map
- Loading Areas
- Parking Lots
- Internal Roads
- Storm and Sewer Drains
- Adjacent Property Use
- Locations and Names of Adjacent Streets and Alleys
- Access and Egress Points and Roads
- Primary and Alternate Evacuation Routes

For Sub-Site Map

- Scale of Map
- Location of Each Storage Area
- Location of Each Hazardous Material Handling Area
- Location of Emergency Response Equipment

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 **North Hollywood High School**	3			FACILITY ID # 1 **FA0012371**	
SITE ADDRESS **5231 Colfax Avenue**	103	CITY **North Hollywood**	104	ZIP CODE **91601**	105

II. EMERGENCY CONTACTS

PRIMARY		SECONDARY	
NAME **Randall Delling**	123	NAME **Richard Mendoza**	128
TITLE **Principal**	124	TITLE **Plant Manager**	129
BUSINESS PHONE **(818) 753-6200**	125	BUSINESS PHONE **(818) 753-6200**	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: **Kaiser Permanente**	PHONE NO: **(818) 375-2369**
ADDRESS: **13640 Roscoe Blvd.**	
CITY: **Panorama City**	ZIP CODE: **91402**

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:

Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN

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. Small Leaks/Spills: Plant Manager and/or Chemical Safety Coordinator (CSC) at school will clean up small spills of science chemicals, automotive fluids, or janitorial chemicals by using absorbent. The Office of Environmental Health and Safety must be notified for proper disposal at off-site licensed facilities. Large Leaks/Spills: The school will call the Office of Environmental Health and Safety and their Emergency Response 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	Science rooms	Plastic
	☑ Chemical Protective Boots	PM Office	Rubber
	☑ Chemical Protective Gloves	ER Bin, PM Offic	Latex
	☐ Chemical Protective Suits *(describe)*		
	☐ Face Shields		
	☑ First Aid Kits/Stations *(describe)*	ER Bin, PM Offic	Standard
	☑ Hard Hats	ER bin	Plastic
	☐ Plumbed Eye Wash Stations		
	☑ Portable Eye Wash Kits *(i.e. bottle type)*	Science Labs (R	Eyesaline
	☐ Respirator Cartridges *(describe)*		
	☑ Safety Glasses/Splash Goggles	PM Office, Scien	Plastic
	☐ Safety Showers		
	☐ Self-Contained Breathing Apparatuses (SCBA)		
	☑ Other *(describe)*	Nurse's Office	Defribrilator
Fire Extinguishing Systems	☑ Automatic Fire Sptinkler Systems	Throughout site	Standard
	☑ Fire Alarm Boxes/Stations	Throughout site	Standard
	☑ Fire Extinguisher Systems *(describe)*	Throughout site	Standard
	☐ Other *(describe)*		
Spill Control Equipment and Decontamination Equipment	☑ Absorbents (describe)	Science,Auto Sh	Super Sorb absorbent
	☑ Berms/Dikes (describe)	Fuel Bunker	Concrete berm
	☐ 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	Throughout site	Standard
	☑ Portable Radios	Admin and Custo	Hand-held
	☑ Telephones	Throughout site	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.*

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: CAD982037855
2. Page 1 of 1
3. Emergency Response Phone: (800) 451-8346
4. Manifest Tracking Number: 010202792 JJK

5. Generator's Name and Mailing Address
LOS ANGELES UNIFIED SCHOOL DISTRICT-OEHS
333 S.BEAUDRY AVE. 28TH FLOOR
LOS ANGELES, CA 90017
Generator's Phone: (213) 241-3199CONTACT: SOE AUNG

Generator's Site Address (if different than mailing address)
NORTH HOLLYWOOD H.S.
5231 COLFAX AVENUE
NORTH HOLLYWOOD, CA 91601

6. Transporter 1 Company Name: BDC SPECIAL WASTE SERVICES
U.S. EPA ID Number: CAR000181891

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
AZUSA LAND RECLAMATION
1211 W. GLADSTONE
AZUSA, CA 91702
Facility's Phone: (626) 224-9127
U.S. EPA ID Number: CAD009007626

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. NA2212, ASBESTOS, 9, PGIII, RQ	5	BA	1	Y	151
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
BDC SPECIAL WASTE SERVICES 1211 W.GLADSTONE AVE.AZUSA, CA 91702 (626)969-1384
3E Contract #9026 Profile#CA304450,
(ERG#171) SCAQMD 21865 E.COPLEY DR. DIAMOND BAR, CA. 91789 (909)396-2000
ASBESTOS REMOVAL REQUIREMENT 40 CFR 61 (BAGGED SEALED & LABELED) NATIONALDEMO

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: JOHN CHASTNEC
Signature: [signature]
Month 7 Day 19 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: ROGELIO RODRIGUEZ
Signature: [signature]
Month 07 Day 19 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

ENTERED

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. H132 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]
Signature:
Month 07 Day 19 Year 13

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD982087895	1	714-620-4886	010169034 JJK

GENERATOR

5. Generator's Name and Mailing Address

Los Angeles Unified School District - OEHS
333 S. Beaudry Ave 28th Floor
Los Angeles, CA 90017

Generator's Site Address (if different than mailing address)

N. Hollywood H.S. 5231 Colfax
North Hollywood, CA 91601

Generator's Phone: 213-241-3199

6. Transporter 1 Company Name

Earthwise Services L.L.C. (714)620-4886

U.S. EPA ID Number

CAR000153056

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

USA Demolition
1211 W Glenstone
Azusa, CA 91702

U.S. EPA ID Number

CAD009007630

Facility's Phone: 626-724-9127

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
	1. ~~Asbestos, friable~~ RQ NA2212, ASBESTOS, 9, PGIII	16	BA	1		151
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

24HR Emergency contact Earthwise Services L.L.C. (714) 620-4886. SCAQMD 21865 E. Copley Dr Diamond Bar CA 91765
Use of Personal Safety Equipment is required. Asbestos removal requirement 40CFR61 (Bagged, Sealed, Labeled)

AIR Profile 104969CA

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	Signature	Month	Day	Year
Jim McFarland	Jim McFarland	12	27	12

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Scott Wallace	Scott Wallace	12	27	12
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

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.
H132			

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
Claudia Tapia				

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

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: CAD982037855
2. Page 1 of: 1 of 1
3. Emergency Response Phone: 310 359 9999
4. Manifest Tracking Number: 008624555 JJK

GENERATOR

5. Generator's Name and Mailing Address: Attn: Sue Murray, 22450, 333 S. Beaudry Ave 28th Floor, Los Angeles, CA 90017
Generator's Site Address (if different than mailing address): North Hollywood Yard, 5231 Colfax Ave, North Hollywood, CA 91606
Generator's Phone: 213-241-3199

6. Transporter 1 Company Name: Ecology Control Ind.
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
U.S. EPA ID Number: CAD028409019
Facility's Phone: 562-432-2464

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
	1. WASTE FLAMMABLE LIQUID, N.O.S., 3, UN1993, III (LAB PACK) ERG#128	1	DM	150 EST.	P	D001 F003 551
	2. NON RCRA HAZARDOUS WASTE LIQUID (LAB PACK)	1	PM	200 EST.	P	NA NL 551
	3.					
	4.					

14. Special Handling Instructions and Additional Information
191 x 55DM, LP1
291 x 55DM, LP2
ERG#154
D105784

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: Tomas Cadena
Signature:
Month: 6 Day: 1 Year: 12

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Felicia
Signature:
Month: 6 Day: 1 Year: 12

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

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:

THE REFERENCED WASTE WAS RECEIVED, HANDLED AND STORED FOR SUBSEQUENT OFFSITE DISPOSAL, TREATMENT OR REUSE. CROSBY & OVERTON, INC. OPERATES THE FACILITY UNDER PERMITS GRANTED TO THEM, BY THE DEPARTMENT OF TOXIC SUBSTANCE CONTROL, TOGETHER WITH THE ENVIRONMENTAL PROTECTION AGENCY IN ACCORDANCE WITH THE PROVISIONS OF THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976 TOGETHER WITH APPLICABLE FEDERAL AND STATE REGULATIONS. CROSBY & OVERTON HAS ALL OF THE NECESSARY PERMITS TO ACCEPT THE REFERENCED WASTE AND ALL THE WASTE HAS BEEN HANDLED ACCORDINGLY.

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	H141		

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: Jeff Reed
Signature:
Month: 6 Day: 1 Year: 12

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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD982057855	1	714-630-4686	008652761 JJK

GENERATOR

5. Generator's Name and Mailing Address
Los Angeles Unified School District - EHS
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)
North Hollywood High 5231 Colfax Ave
North Hollywood, CA 91601

6. Transporter 1 Company Name
Earthwise Services L.L.C.
U.S. EPA ID Number
CAR000152058

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors
1311 W. Gladstone
Azusa, CA 91702
626-334-0719
Facility's Phone:
U.S. EPA ID Number
CAD008076262

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
	1. RQ, ACBESTOS, 9, NA2212, PGIII	1	CM	40	Y	151
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
24HR Emergency Contact Earthwise Services L.L.C. (714) 520-4896. RCAQMD 21865 E. Copley Dr Diamond Bar CA 91765 Use of personal Safety equipment is required. Asbestos removal requirement 40CFR61 (Bagged, Labeled, Sealed)
ACE 104969 CA

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: Horacio Bodina (ON BEHALF OF) | Signature | Month 03 | Day 23 | Year 12

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: SCOTT WALLACE | Signature | Month 03 | Day 23 | Year 12

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

18b. Alternate Facility (or Generator) Manifest Reference Number:
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.
H132			

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 3 | Day 23 | Year 12

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD982037955		909-525-0845	008626559 JJK

GENERATOR

5. Generator's Name and Mailing Address
LAUSD
333 S. BEAUDRY AVE 27TH FL
LOS ANGELES CA 90017
Generator's Phone: 213 241-3880

Generator's Site Address (if different than mailing address)
LAUSD/NORTH HOLLYWOOD HS
6231 COLFAX AVE
NORTH HOLLYWOOD CA 91601

6. Transporter 1 Company Name
ECOLOGY CONTROL INDUSTRIES (MONTCLAIR)
U.S. EPA ID Number
CAD982032173

7. Transporter 2 Company Name
Industrial Waste Utilization
U.S. EPA ID Number
CAD980585293

8. Designated Facility Name and Site Address
AAERYDCOL, LLC
1625 S. FACTOR AVE.
YUMA AZ 85365
Facility's Phone: 928 782-3678
U.S. EPA ID Number
AZR000501519

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
	1. Non-RCRA, Hazardous Waste, Liquid (OIL & WATER)	2	DM	90	G	222
	2. Non-RCRA, Hazardous Waste, Liquid (ANTIFREEZE)	1	DM	35	G	135
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Wear proper safety equipment. 1) 2 x 55 # L20403-LL1
EDI Job# 24-1547 2) 1 x 55# L20406-LL1

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: AT Jimenez
Signature:
Month: 3 Day: 15 Year: 12

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: RAFAEL GONZALEZ
Signature:
Month: 3 Day: 15 Year: 12

Transporter 2 Printed/Typed Name: Ronald Albright
Signature:
Month: 3 Day: 23 Year: 12

DESIGNATED FACILITY

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.
H141	H141		

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: Ennis McKeegan
Signature:
Month: 3 Day: 31 Year: 12

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD982037855	1	888-785-7225	004642496 FLE

GENERATOR

5. Generator's Name and Mailing Address
LAUSD-N Hollywood HS
333 S Beaudry Ave 27th Floor
Los Angeles CA 90017
Generator's Phone: 818 753-6200

Generator's Site Address (if different than mailing address)
5231 Colfax Ave
North Hollywood CA 91601

6. Transporter 1 Company Name: Advanced Chemical Transport — U.S. EPA ID Number: CAR000070540

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Evergreen Oil, Inc. (Carson)
16604 South San Pedro St
Carson, CA 90746
Facility's Phone: 310-769-0022

U.S. EPA ID Number: CAD981696420

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		
	1. Non RCRA Hazardous Waste Liquid (Oil)	2	DM	79	G	321		
	2. Non RCRA Hazardous Waste Solid (Used Oil Filters)	1	DM	90	P	321	352	
	3. Non RCRA Hazardous Waste Liquid (Antifreeze)	1	DM	4	G	321	134	
	4.							

14. Special Handling Instructions and Additional Information
1) 10005410; NOE-903/55 902/55 NOE-904/55
2) 10005411; NOE-903/55
3) 10005412;
Project Number: LA-3576

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: Al Jimenez — Signature — Month 6 Day 8 Year 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David Stegall — Signature — Month 6 Day 8 Year 11

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

18b. Alternate Facility (or Generator) — Manifest Reference Number: — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

ENTERED

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	H141	H141	

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: Brian Julius — Signature — Month Day Year

EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

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	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
			007937583 JJK

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

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
	1.	2	DM	100	G	
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

D43949

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 — Signature — Month 2 Day 9 Year 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 02 Day 10 Year 11

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

THE REFERENCED WASTE WAS RECEIVED, HANDLED AND STORED FOR SUBSEQUENT OFFSITE DISPOSAL, TREATMENT OR REUSE. CROSBY & OVERTON, INC. OPERATES THE FACILITY UNDER PERMITS GRANTED TO THEM, BY THE DEPARTMENT OF TOXIC SUBSTANCE CONTROL, THE REGIONAL WATER QUALITY CONTROL BOARD AND THE ENVIRONMENTAL PROTECTION AGENCY IN ACCORDANCE WITH THE PROVISIONS OF THE RESOURCE CONSERVATION AND RECOVERY ACT OF 1976 TOGETHER WITH APPLICABLE FEDERAL AND STATE REGULATIONS. CROSBY & OVERTON HAS ALL OF THE NECESSARY PERMITS TO ACCEPT THE REFERENCED WASTE AND ALL THE WASTE HAS BEEN ACCEPTED

18b. Alternate Facility (or Generator) — Manifest Reference Number: — 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.
H141			

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 02 Day 16 Year 11

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

OEHS- Hazardous Waste Request Tracking

Shipping Papers

6/13/14

24 HOUR EMERGENCY CONTACT: CWI- 1 (800) 788-2167

Shipping Paper ID: 2360
From:
Facility: North Hollywood High School
Address: 5231 Colfax Avenue
City, State, Zip: North Hollywood, CA, 90601
Contact Name: Horacio Godina
EPA ID #: CAD982037855
Mileage: 30 R/T

Facility: School Hazardous Collection Consolidation Accumulation Facility
Address: 620 East Pico Street
City, State, Zip: Los Angeles CA, 90015
EPA ID #: CAR000161927
Receiver Name: Jose Padilla
Signature:

Drive Time to Pickup Location: 0 hr(s) 45 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)

Nu	Proper DOT Shipping Name / Hazard Class, ID Number, Packing Group	Waste Information				Transport Container Information			Comments
		EPA Code	State Code	Quantity	Physical State (1)	Quantity	Type	Size	
10	Non-RCRA Hazardous WAste, Solid (Ink Toners)	None	181	40 P	Solid	2	DF	20 gal	
11									

OEHS- Hazardous Waste Request Tracking

Shipping Papers

4/24/12

24 HOUR EMERGENCY CONTACT: CWI- 1 (800) 788-2167

ipping Paper ID: 1559
m:
ility: North Hollywood High School
ress: 5231 Colfax Avenue
, State, Zip: North Hollywood, CA. 91601
tact Name: Richard Mendoza
ID #: CAD982037855
age: 30 R/T

Facility: School Hazardous Collection Consolidation Accumulation Facility
Address: 620 East Pico Street
City, State, Zip: Los Angeles CA, 90015
EPA ID #: CAR000161927
Receiver Name: Jose Padilla
Signature:

Drive Time to Pickup Location: 0 hr(s) 45 min(s)
Time Spent at Pickup Location: 0 hr(s) 45 min(s)
Drive Time to Return to OEHS: 1 hr(s) 30 min(s)

Nu	Proper DOT Shipping Name / Hazard Class, ID Number, Packing Group	Waste Information				Transport Container Information			Comments
		EPA Code	State Code	Quantity	Physical State (1)	Quantity	Type	Size	
1	Universal Waste (Fluorescent Lights)	None	None	360 P	Solid	30	CF	0.5 CF	

OEHS- Hazardous Waste Request Tracking

Shipping Papers

3/6/14

24 HOUR EMERGENCY CONTACT: CWI- 1 (800) 788-2167

[redacted]hipping Paper ID: 2124
[redacted]rom:
[redacted]acility: North Hollywood High School
[redacted]ddress: 5231 Colfax Ave
[redacted]ty, State, Zip: North Hollywood, CA 91601
[redacted]ntact Name: Mr Sanchez
[redacted]A ID #: CAD982037855
[redacted]leage: 38

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) 30 min(s)

Nu	Proper DOT Shipping Name / Hazard Class, ID Number, Packing Group	Waste Information				Transport Container Information			Comments
		EPA Code	State Code	Quantity	Physical State (1)	Quantity	Type	Size	
[redacted]6	Non-RCRA Hazardous Waste, Solid (Lab Pack)		551	15 p	Solid	1	DF	20 gal	
[redacted]7									
[redacted]8									
[redacted]9									

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: North Hollywood High School
Address: 5231 Colfax Avenue
City State, Zip: North Hollywood, CA. 91601
Contact Name: Richard Mendoza
EPA ID #: CAD982037855

Mileage: 38 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
Signature:

Drive Time to Current Pickup Location: ___ hr(s) 45 min(s)
Time Spent at Current Pickup Location: 1 hr(s) 30 min(s)
Drive Time to Return to OEHS (leave blank if traveling to another pickup site from current location): 1 hr(s) 30 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	308 P	Solid	22	CF	0.5 CF		X
									X

Contributing Facility Representative Name

SIGN
Richard Mendoza
PRINT
9/11/2013
DATE

OEHS Transporter Name

SIGN
Jose Padilla
PRINT
9/11/2013
Date

Form OEHSPBR5- PBR Shipping Paper - Revised February 2009

Add Item

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: North Hollywood High School
Address: 5231 Colfax Avenue
City State, Zip: North Hollywood, CA. 91601
Contact Name: Richard Mendoza
EPA ID #: CAD982037855

Mileage: 30 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
Signature:

Drive Time to Current Pickup Location: ___ **hr(s)** 45 **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):** 1 **hr(s)** 30 **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	360 P	Solid	30	CF	0.5 CF		X

Contributing Facility Representative Name

SIGN
Richard Mendoza
PRINT
01/26/2012
DATE

OEHS Transporter Name

SIGN
Jose Padilla
PRINT
01/26/2012
Date

Form OEHSPBR5- PBR Shipping Paper - Revised February 2009

Add Item

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: North Hollywood High School
Address: 5331 Colfax Avenue
City State, Zip: North Hollywood, CA.91601
Contact Name:
EPA ID #: CAD982037855

Mileage: 30 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
Signature:

Drive Time to Current Pickup Location: 1 hr(s) ___ min(s)
Time Spent at Current Pickup Location: ___ hr(s) 30 min(s)
Drive Time to Return to OEHS (leave blank if traveling to another pickup site from current location): 1 hr(s) 15 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	
Waste Mercury, 8 UN2809 PGIII	D002/D0	551	3 p	Liquid	1	DF	5 gal	Waste Mercury	X

Contributing Facility Representative Name

SIGN
Brad Smith — PRINT
11/21/211 — DATE

OEHS Transporter Name

SIGN
Jose Padilla — PRINT
11/21/2011 — Date

Form OEHSPBR5- PBR Shipping Paper - Revised February 2009

Add Item

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: North Hollywood High School
Address: 5231 Colfax Ave
City State, Zip: North Hollywood, CA, 91601
Contact Name: Richard Mendoza
EPA ID #: CAD982037855

Mileage: 30 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
Signature:

Drive Time to Current Pickup Location: ___ hr(s) 30 min(s)
Time Spent at Current Pickup Location: 1 hr(s) ___ min(s)
Drive Time to Return to OEHS (leave blank if traveling to another pickup site from current location): ___ hr(s) 30 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	
Hazardous Waste, Liquid, N.O.S., 9 NA3082 PGIII (Lab Pac	D009	551	25 p	Liquid	1	DF	20 gal		X
									X
									X
									^

Contributing Facility Representative Name

SIGN
Richard Mendoza
PRINT

Jul 13, 2011
DATE

OEHS Transporter Name

SIGN
Jose Padilla
PRINT

Jul 13, 2011
Date

Form OEHSPBR5- PBR Shipping Paper - Revised February 2009

Add Item

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: North Hollywood High School
Address: 5336 Crystal Springs Dr.
City State, Zip: Los Angeles, CA 90027
Contact Name: Dr. E. Colussi
EPA ID #:
Mileage: 28

To:
Facility Name: School Hazardous Collection
Address: 620 East Pico Street
City State, Zip: Los Angeles CA, 90015
EPA ID: CAR000161927
Receiver Name: Octavio Leon
Signature:

Drive Time to Current Pickup Location: ___ hr(s) 30 min(s)
Time Spent at Current Pickup Location: 1 hr(s) 30 min(s)
Drive Time to Return to OEHS (leave blank if traveling to another pickup site from current location): ___ hr(s) 30 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	
Waste Flammable Liquids, N.O.S., 3 UN1993 PGIII (Lab Pa	D001	551	40 p		1	DF	20 gal		X
Waste Sodium,4.3,UN 1428 PG I	D001	551	5 p		1	DF	5 gal		X
Waste Formaldehyde Solutions, Flammable, 3 UN1198 PGII	D001	551	10 p		1	DF	5 gal		X
Waste Corrosive Liquids, N.O.S., 8 UN1760 PGII (Lab Pack	D002	551	10 p		1	DF	5 gal		X
Waste Toxic Liquids, Inorganic, N.O.S., 6.1 UN3287 PGII (I		551	10 p		1	DF	5 gal		X

Contributing Facility Representative Name

SIGN
Angelea O. Vega — PRINT
Jun 30, 2011 — DATE

OEHS Transporter Name

SIGN
Octavio Leon — PRINT
Jun 30, 20 — Date

Form OEHSPBR5- PBR Shipping Paper - Revised February 2009

Add Item

Cert mail #91 7108 2133 3938 7680 7310

N

Los Angeles Unified School District

Office of Environmental Health and Safety

JOHN E. DEASY
Superintendent of Schools

ENRIQUE G. BOULL'T
Interim Chief Operating Officer

JOHN STERRITT
Director

June 22, 2011

FA0036806

Los Angeles County Fire Department
Health Hazardous Materials Division
Data Operations Unit
5825 Rickenbacker Road
Commerce, CA 90040

SUBJECT: SUBMITTAL OF CONSOLIDATED CONTINGENCY PLAN FOR NORTH HOLLYWOOD HIGH SCHOOL

The Los Angeles Unified School District would like to submit a Consolidated Contingency Plan for the following site:

Facility Name: North Hollywood High School
Street Address: 5231 Colfax Avenue
City, State Zip: North Hollywood, CA 91601

This plan is for the reporting year 2011. If you have any questions, please contact me at (213) 241-3199.

Sincerely,

Graciela Merchan

c. Soe Aung, Environmental Health Supervisor
Randall Delling, North Hollywood High School

Enclosure(s):

Received
JUN 29 2011
HMD - Data Ops

Certmail #91 7108 2133 3938 7680 7310

UNIFIED PROGRAM (UP) FORM
BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID #	F	A		0	0	1		2	3	7	1				1	EPA ID # (Hazardous Waste Only) CAD982037855	2

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3
North Hollywood 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)

Received
JUN 29 2011
HHMD - Data Ops

OFFICIAL USE ONLY	UP Form	HW	HM	ARP	AST	UST	TP	CUPA	PA

UNIFIED PROGRAM (UP) FORM
BUSINESS OWNER/OPERATOR IDENTIFICATION

EW BUSINESS ☐ OUT OF BUSINESS ☑ REVISE/UPDATE (EFFECTIVE) PAGE OF

I. IDENTIFICATION

| | | |

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.

Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN

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	I-8 to I10(2nd fl)	vynil plastic (science class 2nd floor)
	☑ Chemical Protective Boots	I8, I10, I11	Rain boots (hooper room)
	☑ Chemical Protective Gloves	H7,H11,I-8 to I10(	latex, nitrile (ER Bin, Nurse, Science class)
	☐ Chemical Protective Suits *(describe)*		
	☐ Face Shields		
	☑ First Aid Kits/Stations *(describe)*	H7, H11	ER Bin, Nurse office
	☑ Hard Hats	H7	plastic (Emergency bin)
	☐ Plumbed Eye Wash Stations		
	☑ Portable Eye Wash Kits *(i.e. bottle type)*	I-8 to I10(2nd fl)	Science 201, 202, 216, 217
	☐ Respirator Cartridges *(describe)*		
	☑ Safety Glasses/Splash Goggles	I-8 to I10(2nd fl)	standard vented goggles (science, hooper room)
	☐ Safety Showers		
	☐ Self-Contained Breathing Apparatuses (SCBA)		
	☑ Other *(describe)*	H11, E5	defribrilator (nurse, gym area)
Fire Extinguishing Systems	☑ Automatic Fire Sptinkler Systems	throughout	
	☑ Fire Alarm Boxes/Stations	throughout	
	☑ Fire Extinguisher Systems *(describe)*	throughout	
	☑ Other *(describe)*	I-8 to I10(2nd fl)	Fire blankets retardant-treated (science, PM)
Spill Control Equipment and Decontamination Equipment	☑ Absorbents (describe)	I-8 to I10(2nd fl),F	super sorb absorbent (science,auto shop,PM)
	☑ Berms/Dikes (describe)	H-5, F9	fuel bunker,auto shop
	☐ 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	throughout	
	☑ Portable Radios	throughout	
	☑ Telephones	throughout	
	☐ 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

HAZARDOUS WASTE GENERATOR

PAGE OF

BUSINESS NAME: North Hollywood High School		
FACILITY ID # F A 0 0 1 2 3 7 1	NO. OF EMPLOYEES: 33b 3	EPA ID # CAD982037855

I. TYPE OF GENERATOR

PLEASE CHECK THE FOLLOWING BOXES THAT APPLY

	RCRA GENERATOR (FEDERAL WASTE)	NON -RCRA GENERATOR (CALIFORNIA WASTE ONLY)
LARGE QUANTITY GENERATOR (>1000 KG HAZARDOUS WASTE PER MONTH)	☐	☑
SMALL QUANTITY GENERATOR (>100 KG BUT <1000 KG HAZARDOUS WASTE PER MONTH)	☑	☐
CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (< 100 KG HAZARDOUS WASTE PER MONTH)	☐	☐

II. WASTE STREAM IDENTIFICATION

PLEASE COMPLETE THE TABLE BELOW. SEE INSTRUCTIONS FOR CODES AND EXPLANATION.

PROCESS	WASTE DESCRIPTION	WASTE ID	AMOUNT PER YEAR	DISPOSAL METHOD	STORAGE METHOD
maintenance	waste lamps	na	444 lbs	recycle	cardboard
auto shop	waste used oil	221	190 gallons	recycle	drum
auto shop	waste coolant	343	406 gallons	recycle	drum
auto shop	waste used filters	223	150 lbs	recycle	drum
science class	lab pack-liquid waste	551	7 gallons	recycle	5 gallon poly
science class	lab pack-solid waste	551	35 lbs	treatment	5 gallon poly
auto shop	liquid waste (clarifier sludge)	223	711 gallons	treatment	vacuum truck
science class	waste mercury solid compound	D002/D009/725	15 pounds	incinerate	5 gallon poly
science class	waste corrosive liquid	D002/551	6 gallon	treatment	5 gallon poly
science class	waste formaldehyde solutions	D001/331	20 gallons	recycle	5 gallon poly

I certify that the information provided herein is true and accurate to the best of my knowledge.

OWNER/OPERATOR NAME Randall Delling	OWNER/OPERATOR TITLE Principal
OWNER/OPERATOR SIGNATURE Randall Delling (R)	DATE 6/16/2011

OFFICIAL USE ONLY	DATE RECEIVED	REVIEWED BY	
CUPA	PA	DISTRICT	INSPECTOR

UPA

Los Angeles Unified School District

Office of Environmental Health and Safety

LA City FA0036806 North

RAMON C. CORTINES
Superintendent of Schools

WENDY MACY
Chief Operating Officer

JOHN STERRITT
Director

October 12, 2010

Los Angeles County Fire Department
Health Hazardous Materials Division
Data Operations Unit
5825 Rickenbacker Road
Commerce, CA 90040

SUBJECT: SUBMITTAL OF CONSOLIDATED CONTINGENCY PLAN FOR NORTH HOLLYWOOD HIGH SCHOOL

The Los Angeles Unified School District would like to submit a Consolidated Contingency Plan for the following site:

Facility Name: North Hollywood High School
Street Address: 5231 Colfax Avenue
City, State Zip: North Hollywood, CA 91601

This plan is for the reporting year 2010. If you have any questions, please contact me at (213) 241-3199.

Sincerely,

Doug Santos

Received
OCT 18 2010
HHMD - Data Ops

c. Soe Aung, Environmental Health Supervisor
Randall Delling, North Hollywood High School

Enclosure(s):

UNIFIED PROGRAM (UP) FORM
BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID #	F	A		0	0	1		2	3	7	1			1	EPA ID # (Hazardous Waste Only) CAD982037855	2

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3
North Hollywood 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

Received
HHMD - Data Ops

UNIFIED PROGRAM (UP) FORM
BUSINESS OWNER/OPERATOR IDENTIFICATION

☐ NEW BUSINESS ☐ OUT OF BUSINESS ☑ REVISE/UPDATE (EFFECTIVE) PAGE OF

I. IDENTIFICATION

FACILITY ID# FA 0 0 1 2 3 7 1 [1]	BEGINNING DATE [100] 1/1/2010	ENDING DATE [101] 12/31/2010	
BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) [3] North Hollywood High School		BUSINESS PHONE [102] (818) 753-6200	
BUSINESS SITE ADDRESS [103] 5231 Colfax Avenue			
CITY North Hollywood [104]	CA	ZIP CODE 91601 [105]	
DUN & BRADSTREET N/A [106]		SIC CODE (4 digit #) 8211 [107]	
COUNTY Los Angeles [108]		UNINCORPORATED No [133a.]	
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, 27th 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, 27th Floor		
CITY Los Angeles [120]	STATE CA [121]	ZIP CODE 90017 [122]

IV. EMERGENCY CONTACTS

-PRIMARY-	-SECONDARY-
NAME [123] Randall Delling	NAME [128] John Ralles
TITLE [124] Principal	TITLE [129] Assistant Principal
BUSINESS PHONE (818) 753-6200 [125]	BUSINESS PHONE (818) 753-6200 [130]
24-HOUR PHONE (213) 625-6631 [126]	24-HOUR PHONE (213) 625-6631 [131]
PAGER # [127]	PAGER # [132]

V. ADDITIONAL LOCALLY COLLECTED INFORMATION [133]

NUMBER OF EMPLOYEES 3 [133b]	FEDERAL TAX IDENTIFICATION NUMBER 95-6001908 [133c]

MAILING/ BILLING INFORMATION

ADDRESS [133d]	CITY [133e]	STATE [133f]	ZIP CODE [133g]
333 S. Beaudry Avenue, 27th 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]	NAME OF DOCUMENT PREPARER [135]
	7/21/2010	Douglas Santos
NAME OF SIGNER (print) [136] Randall Delling	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

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:

UNIFIED PROGRAM (UP) FORM
HAZARDOUS WASTE GENERATOR

PAGE OF

BUSINESS NAME: North Hollywood High School

FACILITY ID # F A 0 0 1 2 3 7 1

NO. OF EMPLOYEES: 33b 3

EPA ID # CAD982037855

I. TYPE OF GENERATOR

PLEASE CHECK THE FOLLOWING BOXES THAT APPLY

	RCRA GENERATOR (FEDERAL WASTE)	NON -RCRA GENERATOR (CALIFORNIA WASTE ONLY)
LARGE QUANTITY GENERATOR (>1000 KG HAZARDOUS WASTE PER MONTH)	☐	☑
SMALL QUANTITY GENERATOR (>100 KG BUT <1000 KG HAZARDOUS WASTE PER MONTH)	☐	☐
CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (< 100 KG HAZARDOUS WASTE PER MONTH)	☑	☐

II. WASTE STREAM IDENTIFICATION

PLEASE COMPLETE THE TABLE BELOW. SEE INSTRUCTIONS FOR CODES AND EXPLANATION.

PROCESS	WASTE DESCRIPTION	WASTE ID	AMOUNT PER YEAR	DISPOSAL METHOD	STORAGE METHOD
maintenance	waste lamps	na	150 lbs	recycle	cardboard
auto shop	waste used oil	221	55 gallons	recycle	drum
auto shop	waste coolant	343	55 gallons	recycle	drum
auto shop	waste used filters	223	20 lbs	recycle	drum
maintenance	lab pack-liquid waste	551	10 gallons	recycle	drum
maintenance	lab pack-solid waste	551	20 lbs	recycle	drum
auto shop	liquid waste (clarifier sludge)	223	1000 gallons	treatment	vacuum truck

I certify that the information provided herein is true and accurate to the best of my knowledge.

OWNER/OPERATOR NAME Randall Delling

OWNER/OPERATOR TITLE Principal

OWNER/OPERATOR SIGNATURE

DATE 7/21/2010

OFFICIAL USE ONLY	DATE RECEIVED	REVIEWED BY	
CUPA	PA	DISTRICT	INSPECTOR

7

UNIFIED PROGRAM (UP) FORM

BUSINESS OWNER/OPERATOR IDENTIFICATION (LACoCUPA Form 2730)

☒ NEW BUSINESS ☐ OUT OF BUSINESS ☐ REVISE/UPDATE (EFFECTIVE: 6/1/6) PAGE 1 OF 1

I. IDENTIFICATION

FACILITY ID# 36806 | 1 | BEGINNING DATE 100: 01/01/2006 | ENDING DATE 101: 12/31/2006

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As): North Hollywood High School | 3 | BUSINESS PHONE 102: (818) 769-8510

BUSINESS SITE ADDRESS 103: 5231 Colfax Avenue

CITY: North Hollywood | 104 | CA | ZIP CODE: 91601 | 105

DUN & BRADSTREET | 106 | SIC CODE (4 digit #): 8211 | 107

COUNTY: LOS ANGELES | 108 | UNINCORPORATED ☐ Yes ☒ No | 133a

BUSINESS OPERATOR NAME | 109: Los Angeles Unified School District | BUSINESS OPERATOR PHONE 110: (213) 241-3199

II. BUSINESS OWNER

OWNER NAME: Los Angeles Unified School District | 111 | OWNER PHONE: (213) 241-3199 | 112

OWNER MAILING ADDRESS: 333 S. Beaudry Avenue, 20th Floor | 113

CITY: Los Angeles | 114 | STATE: CA | 115 | ZIP CODE: 90017 | 116

45094

III. ENVIRONMENTAL CONTACT

CONTACT NAME: Soe Aung | 117 | CONTACT PHONE: (213) 241-3199 | 118

CONTACT MAILING ADDRESS: 333 S. Beaudry Avenue, 20th Floor | 119

CITY: Los Angeles | 120 | STATE: CA | 121 | ZIP CODE: 90017 | 122

IV. EMERGENCY CONTACTS

PRIMARY		SECONDARY	
NAME	Randall Verne Delling (123)	NAME	Richard Mendoza (128)
TITLE	Principal (124)	TITLE	Plant Manager (129)
BUSINESS PHONE	(818) 769-8510 (125)	BUSINESS PHONE	(818) 769-8510 (130)
24-HOUR PHONE	(213) 625-6631 (126)	24-HOUR PHONE	(213) 625-6631 (131)
PAGER #	(127)	PAGER #	(132)
E-MAIL ADDRESS (if any)	(133b)	E-MAIL ADDRESS (if any)	(133b)

V. ADDITIONAL LOCALLY COLLECTED INFORMATION

133

FEDERAL TAX IDENTIFICATION NUMBER: 95-6001908

NAME, POSITION, AND DATE OF BIRTH

DRIVER'S LICENSE NUMBER AND STATE | 133c

NO. OF EMPLOYEES: 5 | 133d

BUSINESS CODE: 13 | 133e

MAILING/ BILLING INFORMATION

ADDRESS 133f	CITY 133g	STATE 133h	ZIP CODE 133i
333 S. Beaudry Ave, 20th 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: 9/18/2006 | NAME OF DOCUMENT PREPARER 135: Soe Aung

NAME OF SIGNER (print) 136: Soe Aung | TITLE OF SIGNER: Environmental Compliance Manager 137: Environmental Compliance Manager

OFFICIAL USE ONLY	UP Form	HW	HM	ARP	APST	UST	TP	CUPA	PA
		1001X							X

INSPECTOR	DISTRICT	DATE OF INSP.	DIVISION	BATTALION	STATION
NDPC		9-18-06			

HazMat Emergency Incident Report

Log #	Incident Date	Date On Scene
902726	08/09/90	08/09/90

Team #	Team Leader	Team Assistant	Time On Scene	Date Left Scene	Time Left Scene
111	Lopez 021	Brougher 057	09:00	08/09/90	09:30

Time Notified	Time Occurred	Report Agent	Agent Name	Agent Callback #
08:00	unknown :	X42	TURNER JUDY	213-942-7371

Site Name	Location
NORTH HOLLYWOOD HIGH SCHOOL	05231 COLFAX AV LA 91601

Complaint
Paint dumped in trash bin.

Incident Grade: Low level

Agencies On Scene	Agencies Contacted	Other	Incident Commander	Commander Name
X42	p42	N		

(1) Chemical or Trade Name	Hazard	Physical State Stored	Physical State Released
OIL BASE PAINT	T	○ Solid ● Liquid ○ Gas	○ Solid ● Liquid ○ Gas

Quantity Released	Released to	Extent of Release	Container Type	Material	Container Capacity
4.000 ○ lbs ● gal ○ cu ft	□ pavement □ water □ soil □ air ■ other	2	C	M	0.000 ○ lbs ○ gal ○ cu ft

Container	# of Containers	Additional Information
○ fixed ● mobile	8	NOV to properly dispose of H.W. paint and related materials. Seven gal containers of oil base paint was placed inside the trash bin and spilled.

Release Factors

Intentional Act	Fire
✓ Suspicious Act	Explosion
Abandoned	Spill
Mechanical Failure	Unknown
Collision/Overturn	No Release
Other	

HMCP Actions (✓)

Establish Safe Area	
HazCat	
Evacuation	
Contact PRP	
Contact OES	
Contact EPA	
Other	

Other Agency Actions (×)

Contact Agencies	
Investigate	
Call Clean Up Co.	
Remove Hazard	
Provide Public Info	
Contact DoHS	

Board Memo Issued	
Take Samples	
No Action Taken	
✓ NOV Issued	
Hearing Issued	
PHL Issued	
Road Closure	

Responsible Party Business Name	Authorized Representative Name
LA CITY SCHOOL DISTRICT	CAMPOCHIARO JOE

RP Address	RP Phone #
08960 HERRICK AV LA 91352	818-904-2052

Authority for Clean Up: Private Land Owner; Business; City; County; State; Federal; Other

Clean Up Company Name	Cost $	Site Entry Level
		○ A ○ B ○ C ○ D ● No Entry

Time On Scene	Time Complete	Property Use
		School 2469

Date On Scene	Date Left Scene	Surrounding Area
/ /	/ /	2442

Program Referral: □ Site Mit □ Enforcement □ Inspect

(1) # of Persons Exposed	Ref Chem #(s)	Symptoms
0		

(2) # of LA County Employees Exposed	Ref Chem #(s)	Symptoms
0		

Additional Information

Agen: A-SQAMD;B-Business;C-CalTrans;D-Citizen;E-EPA;F-Fire;f-F HazMat;G-Fish&Game;H-CHP;I-Ind Waste;L-Coast Guard;M-St Maint;N-Oth Co;O-Inc City;P-Police;p-P HazMat;R-Oth Fed;S-Sheriff;T-DoT;W-Flood;X-Other;Y-SDHS;Z-HMCP
Hazard: A-Acid;B-Base;C-Combust;D-Drug;E-Expl;F-Flam;I-Infect;K-Irrit;N-Non;O-Oxid;P-Pois;R-Reac;T-Toxic;U-Unknown;W-Water Reactive
Extent: 1-Vehic;2-Equip;3-Floor;4-Structure;5-Property;6-Beyond;7-No;8-Unknown
Container Type: B-Bags/Boxes;C-Carboy/Can/Bottle;D-Drum;G-Gas Cylinder;N-No Container;R-Rail Car;T-Tank;V-Vehicle (Truck/Car)
Material: G-Glass;M-Metal;N-No Container;P-Plastic;U-Unknown;W-Paper/Wood
Prop Use/Surr Area: 2408-Residence;2469-School;2477-Medical Facil;4842-U.S. Forest;4844-Vacant;4848-Office Bldg;4850-Commercial Prop;4855-City Street;4856-Highway;4857-County Facil;4858-Incorp City;4859-Other Govt Agency

NO Hollywood Cy -

HAZMAT EMERGENCY INCIDENT REPORT

LOG NUMBER	INCIDENT DATE	DATE ON SCENE
902726	08/09/90	08/09/90

TEAM #	TEAM LEADER	TEAM ASSISTANT	TIME ON SCENE	DATE LEFT SCENE	TIME LEFT SCENE
111	Lopez	Brougher	9:00	08/09/90	09:30

TIME NOTIFIED	TIME OCCURRED	REPORT AGENT	AGENT NAME	AGENT CALLBACK #
08:00	unknown	42X	Judy Turner LA City School	(213) 242-7371

SITE NAME	LOCATION (STREET)	(CITY)	(ZIP)
No. Hollywood High School	5231 Colfax	N. Hollywood	

COMPLAINT
paint dumped in trash Bin

INCIDENT GRADE	INCIDENT COMMANDER (NAME)
L	0 2

AGENCIES ON SCENE	AGENCIES CONTACTED	OTHER
X 42	0 P*42	

(1) CHEMICAL OR TRADE NAME	HAZARD	PHYSICAL STATE STORED	PHYSICAL STATE RELEASED
Oil Base Paint	I	1 solid 2 X liquid 3 gas	1 solid 2 X liquid 3 gas

QUANTITY RELEASED	RELEASED TO	EXTENT OF RELEASE	CONTAINER TYPE MATERIAL	CONTAINER CAPACITY	CONTAINER
~4 lbs / X gal / cu ft	1 pavement 2 water 3 soil 4 air 5 X other	2	M C (metal trash BIN)	1 lbs / X gal / cu ft	fixed / X mobile

# OF CONTAINERS	ADDITIONAL INFORMATION
8	NOV to properly dispose of HW paint & related materials

1 gal containers of oil base paint was placed inside the trash bin & spilled

(2) CHEMICAL OR TRADE NAME	HAZARD	PHYSICAL STATE STORED	PHYSICAL STATE RELEASED
		1 solid 2 liquid 3 gas	1 solid 2 liquid 3 gas

QUANTITY RELEASED	RELEASED TO	EXTENT OF RELEASE	CONTAINER TYPE MATERIAL	CONTAINER CAPACITY	CONTAINER
lbs / gal / cu ft	1 pavement 2 water 3 soil 4 air 5 other			lbs / gal / cu ft	fixed / mobile

# OF CONTAINERS	ADDITIONAL INFORMATION

RELEASE FACTORS

- ___ INTENTIONAL ACT
- X SUSPICIOUS ACT
- ___ ABANDONED
- ___ MECHANICAL FAILURE
- ___ COLLISION / OVERTURN
- ___ FIRE
- ___ EXPLOSION
- ___ SPILL
- ___ UNKNOWN
- ___ NO RELEASE
- ___ OTHER ___

HMCP ACTIONS (✓) OTHER AGENCY ACTIONS (X) ___ BOARD MEMO ISSUED

- ___ ESTABLISH SAFE AREA
- ___ HAZCAT
- ___ EVACUATION
- ___ CONTACT PRP
- ___ CONTACT OES
- ___ CONTACT EPA
- ___ CONTACT AGENCIES
- ___ INVESTIGATE
- ___ CALL CLEAN UP CO.
- ___ REMOVE HAZARD
- ___ PROVIDE PUBLIC INFO
- ___ CONTACT DOHS
- ___ TAKE SAMPLES
- ___ NO ACTION TAKEN
- X NOV ISSUED
- ___ HEARING ISSUED
- ___ PHL ISSUED
- ___ ROAD CLOSURE
- ___ OTHER Secured the Bin closed

RP INFORMATION
BUSINESS NAME LA City School District
AUTH REP NAME JOE Campochiaro or Judy Turner
ADDR 8960 Hernick Ave Sun Valley Ca 91352
PHONE # (818) 904-2052

AUTHORITY FOR CLEAN UP
- ___ PRIVATE LAND OWNER
- ___ BUSINESS
- ___ CITY (___)
- ___ COUNTY
- ___ STATE
- ___ FEDERAL
- X OTHER ___

CLEAN UP COMPANY 0
COST ___
NAME ___
TIME ON SCENE ___:___ TIME COMPLETE ___:___
DATE ON SCENE __/__/__ DATE LEFT SCENE __/__/__

SITE ENTRY LEVEL	PROPERTY USE	SURROUNDING AREA	PROGRAM REFERRAL
___A ___B ___C ___D X NO ENTRY	2469	2442	0 ___ SITE MIT ___ ENFORCEMENT ___ INSPECT

	REF. CHEM # (S)	SYMPTOMS
(1) # OF PERSONS EXPOSED 0	0	None Reported
(2) # OF LACO EMPLOYEES EXPOSED 0	0	None Reported

Failure to fully comply with this Notice and Order may result in further legal action.

CASE UPDATE / PHONE LOG

Company / Case Name	North Hollywood	Log #	902726

DATE	HMS INIT.	FINDINGS / REMARKS
10-30-90	AL	Phoned Joe Campocchiaro, Assistant Area Facilities Director who stated he will forward a (FAX) copy of the manifest/receipt to our department.
10-30-90	AL	Returned call from Judy Turner at LAUSD who will forward manifest/receipt AL

COUNTY OF LOS ANGELES • DEPARTMENT OF HEALTH SERVICES

HAZARDOUS MATERIALS CONTROL PROGRAM

Owner Los Angeles Unified School

Business N. Hollywood Hig

Address 5231 Colfax

City, Zip Code N. Hollywood

Date 8-9-90

Refer Reply To: Arnulfo [illegible]

2615 South Grand Avenue, Room 607
Los Angeles, CA 90007
(213) 744-3223
(213) 748-1605 (FAX)

NOTICE OF VIOLATION AND ORDER TO COMPLY

The following conditions or practices observed at your facility are violations of the California Code of Regulations (CCR), Title 26, Division 22 or the California Health and Safety Code, Division 20, Chapter 6.5, (H&S) which relate to the storage, management, transportation, and disposal of hazardous waste. YOU ARE DIRECTED TO CORRECT THE VIOLATIONS WITHIN THE TIMES SPECIFIED BELOW.

CORRECTION DATE

DISPOSAL:

_____ ☐ 1. Discontinue the disposal of hazardous waste to an unauthorized point(s) (H&S 25189.5) _____

Forthwith ☒ 2. Legally dispose of all hazardous waste and contaminated materials (H&S 25189.5)
Oil Base Paint Waste (☐ stored at/ ☒ discharged to) the trash bin in the staff parking lot.
(H&S 25189.5) & (H&S 25186.2)

MANAGEMENT:

_____ ☐ 3. Submit to this office a copy of your facility's hazardous materials contingency plan and employee training plan. (CCR 67105, 67120-67126, 67140-67145)

TRANSPORTATION:

_____ ☐ 4. Discontinue the transport of hazardous waste until the following have been met:

_____ ☐ A. Obtain an EPA Identification Number from the State Department of Health Services at (916) 324-1781 (CCR 66472)

_____ ☐ B. Complete a uniform Hazardous Waste Manifest or obtain a receipt when applicable under State Department of Health Services variance procedures.

_____ ☐ C. Transport all hazardous waste by a State registered hauler. (H&S 25163)

90 days ☒ 5. Submit to this office a copy of the completed hazardous waste manifest(s) used to dispose of Waste Paint Oil Base see #2 (CCR) 66328).

_____ ☐ 6. Keep copies at your facility of all completed manifests, receipts or both for a minimum of 3 years and make documents available for agency review. (CCR-66492)

STORAGE:

_____ ☐ 7. Discontinue the storage of hazardous waste for longer than 90 days without a permit from the State Department of Health Services (CCR 66508)

_____ ☐ 8. Store all hazardous waste in compatible containers which are closed and in good condition. (CCR 66241-67243)

_____ ☐ 9. Properly label all hazardous waste containers with the following: the words, "HAZARDOUS WASTE"; name and address of generator; hazardous properties; a composition and physical state of the waste; and the accumulation date. (CCR 66693-66746) _____

OTHER:

_____ ☐ 10. Provide this office with a site assessment and mitigation plan for the contamination at your facility (H&S 25245-25249) _____

_____ ☐ 11. Provide this office with a copy of a waste determination conducted by a state certified laboratory or waste documentation in accordance to the regulations. (CCR 66693-66746) _____

_____ ☐ 12. _____

_____

_____

Failure to fully comply with this Notice and Order may result in further legal action.

_____ _____

Owner or Authorized Representative — Hazardous Materials Specialist

[illegible] JOE CAMPOCHIARO INSPECTOR COPY

Subject: FACILITIES

Date 902726 No.

PRELIMINARY REPORT OF HAZARDOUS WASTE INCIDENT

PRELIMINARY REPORT RECORDER: C. Johnson of (Program) HMCP

DATE & TIME RECORDED: 8-9-90 Time: 8:00 (A.M.) P.M.

HAZARDOUS MATERIALS CONTROL PROGRAM REPORTER: C. Johnson

DATE & TIME INCIDENT OCCURRED: 8-9-90 TIME: 8:00 (A.M.) P.M.

COMPANY INVOLVED AND/OR RESPONSIBLE PERSON INVOLVED: North Hollywood Highschool

NAME(S), Judy Turner (818) 742-7371

ADDRESS, CITY, STATE, ZIP: 5231 Colfax N. Hollywood

PHONE NO.

SUBSTANCES INVOLVED; waste paint plus other haz wastes

TYPE, QUANTITY; Not known

CONTAINMENT, ETC. Disposed of illegally in school dumpsters

PERSON NOTIFYING L.A. CO. HAZARDOUS MATERIALS CONTROL: NAME: Judy Turner OF (DEPT.) LA City School

PHONE NO. ~~(818)~~ 742-7371

FIELD INVESTIGATIVE TEAM: A. Lopez AND G. Brayher

BOARD MEMO NEEDED: YES ____ NO ✓ COMMENTS: Not at this time

ADDITIONAL COMMENTS:

EVACUATIONS, INJURIES,

ILLNESSES, ETC.

EMERGENCY RESPONSE TEAM FAXED COPY TO DR. ALKON: ✓ (Please Check ✓)

RL:nm

E2MANAGETECH
COLLABORATE | INNOVATE | DELIVER

Kevin Lin <kevin.lin@e2managetech.com>

Public Records Request / Tracking 2016053110

1 message

Villar, Rosie@Waterboards <Rosie.Villar@waterboards.ca.gov> Fri, Jun 10, 2016 at 9:44 AM
To: Kevin Lin <kevin.lin@e2managetech.com>

********* 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:

- 5231 Colfax Avenue, North Hollywood, CA 91601

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: Kevin Lin [mailto:kevin.lin@e2managetech.com]
Sent: Tuesday, May 31, 2016 2:44 PM
To: WB-RB4-PublicRecords
Subject: Records Request - 5231 Colfax Ave, North Hollywood, CA, 91601

Waterboard Representative,

Please accept this email and attached form as our formal request for public records review of any files on record for the

following location:

- 5231 Colfax Avenue, North Hollywood, California, 91601 (APN: 2348-013-900)

Thank you for your time. Please feel free to contact me with any questions/concerns at the phone numbers/email listed below.

Thank you,

--

Kevin Lin, EIT

Staff Engineer | kevin.lin@e2managetech.com | www.E2ManageTech.com

5001 Airport Plaza Drive, Suite 260 | Long Beach, California 90815

p 562 740 1061 | c 626 227 6539 | f 562 740 1070 | Ext 1116

Confidentiality Note: This e-mail message and any attachments to it are intended only for the named recipients and may contain confidential information. If you are not one of the intended recipients, please do not duplicate or forward this e-mail message and immediately delete it from your computer.

LARWQCB Request_N Hollywood HS.PDF
494K

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT TO OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

Permit No.
D24627
A/N 209008
Page 1

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership. If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

Legal Owner Or Operator: **ID 005636**
LOS ANGELES UNIFIED SCHOOL DISTRICT
1240 SOUTH NAOMI AVENUE
LOS ANGELES, CA 90021
ATTN: H. E. MENESES

Equipment located at:
5231 COLFAX AVENUE
NORTH HOLLYWOOD, CA 91601

Equipment Description:

BOILER, NATIONAL, SECTIONAL TYPE, MODEL NUMBER 18-66A, SERIAL NUMBER BOILER #2, 4250000 BTU/HR, WITH 34 NATIONAL GAS BURNERS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. THIS EQUIPMENT SHALL BE FIRED ON NATURAL GAS ONLY.

FILE COPY

CONTINUATION OF PERMIT TO OPERATE

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY MUST BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

By Raquel Puerta/Creighton
June 20, 1990

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT TO OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

Permit No.
D24628
A/N 209009
Page 1

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Legal Owner Or Operator: **ID 005636**
LOS ANGELES UNIFIED SCHOOL DISTRICT
1240 SOUTH NAOMI AVENUE
LOS ANGELES, CA 90021
ATTN: H. E. MENESES

Equipment located at:
5231 COLFAX AVENUE
NORTH HOLLYWOOD, CA 91601

Equipment Description:

BOILER, NATIONAL, SECTIONAL TYPE, MODEL NUMBER 18-66A, SERIAL NUMBER BOILER #3, 4250000 BTU/HR, WITH 34 NATIONAL GAS BURNERS.

Conditions:

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EXECUTIVE OFFICER

By Raquel Puerta/Creighton
June 20, 1990

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT TO OPERATE

9150 FLAIR DRIVE, EL MONTE, CALIFORNIA 91731

Permit No.
D24629
A/N 209010
Page 1

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Legal Owner Or Operator: **ID 005636**
LOS ANGELES UNIFIED SCHOOL DISTRICT
1240 SOUTH NAOMI AVENUE
LOS ANGELES, CA 90021
ATTN: H. E. MENESES

Equipment located at:
5231 COLFAX AVENUE
NORTH HOLLYWOOD, CA 91601

Equipment Description:

BOILER, NATIONAL, SECTIONAL TYPE, MODEL NUMBER 18-66A, SERIAL NUMBER BOILER #1, 4250000 BTU/HR, WITH 34 NATIONAL GAS BURNERS.

Conditions:

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EXECUTIVE OFFICER

By Raquel Puerta/Creighton
June 20, 1990

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO CONSTRUCT/OPERATE

Permit No.
D72312
A/N 279484
Page 1

This initial permit must be renewed ANNUALLY unless the equipment is moved, or changes ownership. If the billing for annual renewal fee (Rule 301.f) is not received by the expiration date, contact the District.

ID 005636

Legal Owner or Operator:
LA UNI SCH DIST, NO HOLLYWOOD HIGH
ATTN: H.E. MENESES
P O BOX 2298, BSC RM 303
LOS ANGELES, CA 90051

Equipment Location: 5231 COLFAX AV, NORTH HOLLYWOOD, CA 91601-3002

Equipment Description:

BOILER, NATIONAL, SECTIONAL TYPE, MODEL 18-66, BOILER NO. 3, 4,000,000 BTU PER HOUR, WITH ONE FURIGAS, MODEL MFB-22.5, NATURAL GAS-FIRED LOW NOX BURNER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

3. THE BOILER SHALL BE FIRED ON NATURAL GAS ONLY.

4. THE OXIDES OF NITROGEN CONCENTRATIONS IN THE FLUE GAS SHALL NOT EXCEED 30 PPM, CALCULATED AS NO2, AND THE CARBON MONOXIDE CONCENTRATIONS SHALL NOT EXCEED 400 PPM, BOTH CALCULATED AT 3 PERCENT OXYGEN ON A DRY BASIS AND AVERAGED OVER A MINIMUM OF 15 MINUTES.

5. THE OWNER OR OPERATOR OF THIS BOILER SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:

   A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 CALENDAR DAYS AFTER NORMAL OPERATION OF THE EQUIPMENT HAS BEEN ESTABLISHED, BUT NOT LATER THAN JULY 1, 1994.

   B. THE SOURCE TEST SHALL MEASURE OXIDES OF NITROGEN, CARBON MONOXIDE, AND OXYGEN BY USING DISTRICT METHOD 100.1. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS OPERATING AT MAXIMUM, MINIMUM, AND AVERAGE LOADS. THE SAMPLING TIME AT EACH LOAD SHALL BE AT A MINIMUM OF 15 MINUTES.

FILE COPY

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

C. THE SOURCE TESTS SHALL BE CONDUCTED BY A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR EACH CRITERIA POLLUTANT TO BE MEASURED, AND COMPLIANCE WITH DISTRICT RULE 304.

D. A WRITTEN REPORT OF THE SOURCE TEST RESULTS SHALL BE FILED WITH THE DISTRICT NO LATER THAN 60 DAYS AFTER THE DATE OF THE SOURCE TEST. THE SOURCE TEST REPORT SHALL INCLUDE FUEL FLOW RATE AT EACH LOAD. THE REPORT SHALL ALSO PRESENT THE EMISSIONS DATA IN UNITS OF PARTS PER MILLION (PPM), ON A DRY BASIS AT 3% OXYGEN. THE OWNER OR OPERATOR OF THIS BOILER SHALL RETAIN A COPY OF THE SOURCE TEST, AND SHALL MAKE IT AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

NOTICE

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EXECUTIVE OFFICER

Dorris M Bailey

By Dorris M. Bailey/jp
4/12/1993

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO CONSTRUCT/OPERATE

Permit No.
D72313
A/N 279485
Page 1

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Legal Owner or Operator: LA UNI SCH DIST, NO HOLLYWOOD HIGH
ATTN: H.E. MENESES
P O BOX 2298, BSC RM 303
LOS ANGELES, CA 90051

ID 005636

Equipment Location: 5231 COLFAX AV, NORTH HOLLYWOOD, CA 91601-3002

Equipment Description:

BOILER, NATIONAL, SECTIONAL TYPE, MODEL 18-66, BOILER NO. 2, 4,000,000 BTU PER HOUR, WITH ONE FURIGAS, MODEL MFB-22.5, NATURAL GAS-FIRED LOW NOX BURNER.

Conditions:

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5. THE OWNER OR OPERATOR OF THIS BOILER SHALL DEMONSTRATE INITIAL COMPLIANCE WITH THE ABOVE LIMITS BY THE SUCCESSFUL SOURCE TESTING OF THE BOILER DESCRIBED IN THE PERMIT TO CONSTRUCT/PERMIT TO OPERATE, APPLICATION NUMBER 279484. A COPY OF THIS SOURCE TEST SHALL BE MAINTAINED ON FILE WITH THE BOILER DESCRIBED IN THIS PERMIT, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

FILE COPY

PERMIT TO CONSTRUCT/OPERATE

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

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EXECUTIVE OFFICER

Dorris M Bailey

By Dorris M. Bailey/jp
4/12/1993

FILE COPY

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 East Copley Drive, Diamond Bar, CA 91765

PERMIT TO CONSTRUCT/OPERATE

Permit No.
D72314
A/N 279486
Page 1

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Legal Owner or Operator:

LA UNI SCH DIST, NO HOLLYWOOD HIGH
ATTN: H.E. MENESES
P O BOX 2298, BSC RM 303
LOS ANGELES, CA 90051

ID 005636

Equipment Location: 5231 COLFAX AV, NORTH HOLLYWOOD, CA 91601-3002

Equipment Description:

BOILER, NATIONAL, SECTIONAL TYPE, MODEL 18-66, BOILER NO. 1, 4,000,000 BTU PER HOUR, WITH ONE FURIGAS, MODEL MFB-22.5, NATURAL GAS-FIRED LOW NOX BURNER.

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5. THE OWNER OR OPERATOR OF THIS BOILER SHALL DEMONSTRATE INITIAL COMPLIANCE WITH THE ABOVE LIMITS BY THE SUCCESSFUL SOURCE TESTING OF THE BOILER DESCRIBED IN THE PERMIT TO CONSTRUCT/PERMIT TO OPERATE, APPLICATION NUMBER 279484. A COPY OF THIS SOURCE TEST SHALL BE MAINTAINED ON FILE WITH THE BOILER DESCRIBED IN THIS PERMIT, AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

FILE COPY

PERMIT TO CONSTRUCT/OPERATE

CONTINUATION OF PERMIT TO CONSTRUCT/OPERATE

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR COPY SHALL BE POSTED ON OR WITHIN 8 METERS OF THE EQUIPMENT.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT CANNOT BE CONSIDERED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF OTHER GOVERNMENT AGENCIES.

EXECUTIVE OFFICER

Dorris M Bailey

By Dorris M. Bailey/jp
4/12/1993

AIR POLLUTION CONTROL DISTRICT
COUNTY OF LOS ANGELES

PERMIT

A PERMIT IS HEREBY GRANTED TO:

[illegible]

A 05463

L. A. [illegible] DISTRICT
[illegible] HIGH SCHOOL

TO OPERATE

[illegible]

LOCATED AT

5231 [illegible] AVENUE, [illegible], CALIFORNIA

SUBJECT TO THE FOLLOWING CONDITIONS

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS [illegible] THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
2. THE EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

REVOCABLE AND NOT TRANSFERABLE

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 20, Chapter 2, Article 3, of the Health and Safety Code of the *State of California or the Rules and Regulations of the Air Pollution Control District.* This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other governmental agencies

VOID UNLESS VALIDATED

AIR POLLUTION CONTROL OFFICER

BY [signature]

DATE June [illegible], 1959

[illegible]

Nº A 05463

SCAQMD Facility Equipment List Report

Facility: 5636 LA UNI SCH DIST, NO HOLLYWOOD HIGH Status: Active MR: 1402 SIC: 8211 Team: L1
Last Inspection: 03/13/2013 On Hold: Suspended: TS: TS-11 Industrial: Sector-based Inspections Quarter: 1000 - inspect in 1st quarter, every year
Contact: H.E. MENESES (213) 7427221 RECLAIM: N TITLE V: N AIRS ID: Assignment: 1360904
Location Address: 5231 COLFAX AVE, NORTH HOLLYWOOD 91601-3002 Sector:VH Inspector: JB02 JEFF BROWN
Mailing Address: 333 S BEAUDRY AVE, LOS ANGELES 90017 Sector:WF Inspection Date: 03/13/2013
Instruction: Disposition: Inspection in progress, Disposition pending

Application No.	Permit No.	Permit Issue Date	Permit Status	Equipment Category		BCAT/CCAT Description	Application Date	Application Status
209008	D24627	07/18/1990	INACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	06/02/1989	PERMIT TO OPERATE GRANTED
209009	D24628	07/18/1990	INACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	06/02/1989	PERMIT TO OPERATE GRANTED
209010	D24629	07/18/1990	INACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	06/02/1989	PERMIT TO OPERATE GRANTED
279484	D72312	04/12/1993	INACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	03/22/1993	PERMIT TO OPERATE GRANTED
279484	D72312	04/12/1993	INACTIVE	83	CCAT	LOW NOX BURNER	03/22/1993	PERMIT TO OPERATE GRANTED
279485	D72313	04/12/1993	INACTIVE	83	CCAT	LOW NOX BURNER	03/22/1993	PERMIT TO OPERATE GRANTED
279485	D72313	04/12/1993	INACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	03/22/1993	PERMIT TO OPERATE GRANTED
279486	D72314	04/12/1993	INACTIVE	011001	BCAT	BOILER (<5 MMBTU/HR) NAT GAS ONLY	03/22/1993	PERMIT TO OPERATE GRANTED
279486	D72314	04/12/1993	INACTIVE	83	CCAT	LOW NOX BURNER	03/22/1993	PERMIT TO OPERATE GRANTED
530948				666415	BCAT	RULE 1415 PLAN NOTIFICATIONS	12/22/2011	BANKING/ PLAN GRANTED, NON BILLABLE
561359				666415	BCAT	RULE 1415 PLAN NOTIFICATIONS	03/04/2014	BANKING/ PLAN GRANTED, NON BILLABLE
G00512	A05463		INACTIVE	60	CCAT	SPRAY BOOTH PAINT AND SOLVENT	01/01/1900	PERMIT TO OPERATE GRANTED

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

South Coast Air Quality Management District

NC C91875

Run Date : 6/2/2016 16:30:21

Company

Facility:	LA UNI SCH DIST, NO HOLLYWOOD HIGH (ID: 5636)
Location Address:	5231 COLFAX, AVE NORTH HOLLYWOOD, CA 91601-3002
Mailing Address:	P O BOX 512298 LOS ANGELES, CA 90051-0298
AIRS ID	

Violation

Notice Issued Date:	4/8/2004
Violation Date:	4/8/2004
Serve To:	LEE GAINES
Title:	PLANT MANAGER
Issue By:	MELISSA EDWARDS (Team: I)
Assignment No.:	822234
Compliance Achieved Date:	
Equipment Description:	
Compliance Requirements:	PROVIDE SOURCE TEST RECORDS FOR 2003-2004 FOR 4 MMBTU BOILERS. PROVIDE GAS BILLS FOR 1.75 MMBTU BOILERS. PROVIDE SCAQMD REGISTRATIO FOR 1.75 MMBTU BOILERS.

Disposition

Final Action Code:	
Due Date:	4/22/2004
Violation Days:	0

Rule/Comment

1146.2
203 (b)
222

Emittent

Follow-Up

Status: Inspector ID: Inspection Date: Number:

Device IDs.

Inspector Comment

INSPECTOR: _____ DATE: _____
signature

SUPERVISOR: _____ DATE: _____
signature

User ID: mallen

South Coast Air Quality Management District

NC C97750

Run Date : 6/2/2016 16:30:03

Company

Facility:	MILLER ENVIRONMENTAL INC (ID: 122413)
Location Address:	5231 COLFAX, AVE NORTH HOLLYWOOD, CA 91601
Mailing Address:	1668 LEWIS, ST ANAHEIM, CA 92812
AIRS ID	

Violation

Notice Issued Date:	9/8/2004
Violation Date:	8/26/2004
Serve To:	GREGG MILLER
Title:	PRESIDENT
Issue By:	BEVERLY D CALDWELL (Team: X)
Assignment No.:	844790
Compliance Achieved Date:	09/24/2004
Equipment Description:	
Compliance Requirements:	REVISE START DATE AND END DATE ON NOTIFICATION FOR ABOVE LOCATION ADDRESS (PROJECT #2234)

Disposition

Final Action Code:	CLO 6/1/2006 00:00:00
Due Date:	9/22/2004
Violation Days:	0

Rule/Comment

1403

Emittent

Follow-Up

Status: INCOMP Inspector ID: BP01 Inspection Date: 09/24/04 00:00 Number:

Device IDs.

Inspector Comment

INSPECTOR: _____ DATE: _____

signature

SUPERVISOR: _____ DATE: _____

signature

User ID: mallen

Information Management
Public Records Unit

Direct Dial (909) 396-3700
Fax:(909) 396-3330

COMPLETION LETTER

June 03, 2016

KEVIN LIN
E2 MANAGETECH
5001 AIRPORT PLAZA DR.# 260
LONG BEACH, CA 90815

Ref.: CONTROL NO. 86165
Received 6/1/2016

Re: P/O'S, NOV'S & N/C'S FOR 5231 COLFAX AVE., NORTH HOLLYWOOD, CA 91601.

After a thorough search of this agency's records, the following records were found:
P/O'S, EQL & N/C'S FOR 5231 COLFAX AVE., NORTH HOLLYWOOD, CA 91601.

The following records were not found:
NOV'S FOR 5231 COLFAX AVE., NORTH HOLLYWOOD, CA 91601.

YOUR REQUESTED RECORDS WERE PROVIDED ELECTRONICALLY ON 06/03/2016

If you have any questions, please do not hesitate to contact me, Tuesday through Friday, **8:00 a.m**. to **4:30 p.m.**

Sincerely,

MARIA ALLEN x2714
For Colleen Paine
Public Records Coordinator

:ma

Department of Toxic Substances Control

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Matthew Rodriquez
Secretary for
Environmental Protection

Edmund G. Brown *Jr*
Governor

June 2, 2016

Mr. Kevin Lin
E2 ManageTech
5001 Airport Plaza Drive, Suite 260
Long Beach, CA 90815

VARIOUS SITES
PR3-053116-11

Dear Mr. Lin:

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 sites/facilities referenced below.

- 5231 Colfax Avenue, North Hollywood, CA 91601
- APN: 2348-013-900

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, would like further information regarding your request or would like an appointment to visit Chatsworth Central Files, please contact me at (818) 717-6521.

Sincerely,

Vivien Tutaan /bh
Regional Records Coordinator

Printed on Recycled Paper

Department of Toxic Substances Control

Barbara A. Lee, Director
5796 Corporate Avenue
Cypress, California 90630

Matthew Rodriquez
Secretary for
Environmental Protection

Edmund G. Brown Jr.
Governor

June 3, 2016

Kevin Lin
E2 MANAGETECH
5001 Airport Plaza Drive, #260
Long Beach, CA 90815

5231 COLFAX AVE, NORTH HOLLYWOOD, CA
PR4-053116-1

Dear Mr. Lin:

The Department of Toxic Substances Control has received your letter to review records under the Public Records Act.

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 accesses at: http://www.envirostor.dtsc.ca.gov/public. Also, a computer is available at each DTSC Regional File Room 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 (714) 484-5337.

Sincerely,

Julie Johnson
Julie Johnson
Regional Records Coordinator

Printed on Recycled Paper

LOS ANGELES FIRE DEPARTMENT
UNDERGROUND TANKS REQUEST FOR FIRE PREVENTION RECORDS
ADDRESS: 200 NORTH MAIN ST., 17TH FLR.RM.1700

NEW OFFICE# - 213-978-3700 NEW EMAIL lafd.usttestnotify@lacity.org

PLEASE GIVE US 7 TO 10 BUSINESS DAYS TO HONOR YOUR REQUEST.

ONE ADDRESS ONLY - PER SHEET

COMPLETE THIS BOX. ONE FOR EACH PROPERTY CONCERNED

PHONE NO: (562) 740-1061 FAX #/EMAIL: kevin.lin@e2managetech.com

NAME OF REQUESTER (PLEASE PRINT): Kevin Lin

REPRESENTING (COMPANY NAME): E2 ManageTech

SIGNATURE: _____ DATE: 5/31/16

DRIVER LIC NO: E2008806 EXP: 7/11/~~207~~ 2017

ADDRESS FOR WHICH RECORDS ARE REQUESTED: North Hollywood High School

5231 Colfax Ave, North Hollywood, California 91601; APN: 2348-013-900

REASON FOR REQUEST: Phase I Environmental Site Assessment

NO COPY SERVICES ALLOWED

FOR OFFICE USE ONLY:

☐ REVIEW ONLY (NO COPIES)

☐ REQUEST COPIES

NUMBER OF PAGES: _____

X .10 ¢

= _____

+ $11.00

TOTAL FEE AMOUNT: _____

BILLING & ACCOUNTS RECEIVABLE
16TH FL, Rm. 1620, 200 N. MAIN (REV CODE #3887)

NO FILE FOUND

Appendix G

Environmental Professional Qualifications



Kevin Lin, EIT

Staff Engineer

PROFILE

Mr. Kevin Lin, a Staff Engineer with E2 ManageTech, Inc. (E2), has more than a year of experience in the field of environmental engineering. His experience is focused in environmental compliance and due diligence, performing site assessments, overseeing remediation and documenting environmental compliance.

EXPERIENCE

- **Port of Long Beach, Pier G Bulk Terminal** – Mr. Lin was responsible for performing a Phase I Environmental Site Assessment (ESA) for an operating bulk terminal with an area of responsibility of approximately 40 acres. He kept in close contact and maintained good relationships with local regulatory agencies for public record requests. Mr. Lin utilized online databases like GeoTracker, EnviroStor, and the National Pipeline Mapping System to conduct a thorough review of the Site and its surrounding area. Some potential RECs identified include: bulk materials impacting unpaved surfaces, historical oil and gas well operations, and use and storage of hydraulic oils and lubricants on conveyor equipment and reservoirs throughout the Site for an excess of 40 years.
- **Ontario Housing Authority, Quiet Home Program -** Mr. Lin was responsible for preparing a Phase I ESA for a residential property located in Ontario, California to fulfill the goals of the Federal Aviation Administration (FAA) Grant provided by the Federal Government. He was tasked with performing a site reconnaissance to identify conditions indicative of releases or potential releases of hazardous substances or petroleum products, and determining if such releases pose a threat to human health or the environment.
- **AES Alamitos, NPDES** – Mr. Lin is responsible for coordinating and conducting Monthly, Semiannual and Annual National Pollutant Discharge Elimination System (NPDES) sampling. He conducts monthly, semi-annually, and annually sampling of discharges, waste streams, and intake water as a condition of AES Alamitos' NPDES permit. Mr. Lin coordinates the sampling efforts with the Site's Environmental Coordinator and the onsite technician while adhering to Site-specific safety requirements.

EXPERTISE

- Regulatory Compliance
- Phase I ESAs
- Site Investigations
- NPDES and Stormwater Sampling
- Groundwater Sampling
- EHS Management Information Systems (EMIS)

Kevin Lin, EIT
Staff Engineer

PROFESSIONAL HISTORY

E2 ManageTech, Inc., Staff Engineer, 2013 – Present

Core Probe International, Inc., San Gabriel, Subsurface Investigation Intern, June 2012 – September 2012

Air Pollution Control District, San Luis Obispo, Student Research Assistant, January 2012 – June 2012

EDUCATION

California Polytechnic State University, San Luis Obispo, CA: BS, Environmental Engineering, 2013

CERTIFICATIONS

Engineer-In-Training (EIT) #149584

40-Hour HAZWOPER Training

American Red Cross, Adult First Aid/CPR/AED

EDUCATION

Cantonese (Native)

AutoCAD

- **CRA/LA, Crown Coach Soil Remediation** – Mr. Lin is responsible for overseeing remediation at a site with a 125 year operational history in support of redevelopment. This includes implementing excavation, handling, profiling and disposing of 11,000 cubic yards of non-RCRA and RCRA soil, and removal of multiple Underground Storage Tanks (USTs) in downtown Los Angeles. His involvement included direct oversight of contractors implementing removal actions, collecting confirmation samples, implementing XRF screening, documenting findings and conducting perimeter dust monitoring in compliance with Site-specific and SCAQMD requirements.
- **OCTA, Placentia Avenue Grade Separation** – Mr. Lin was responsible for air monitoring during soil excavation activities in accordance with the Site-specific SCAQMD Rule 1166 Contaminated Soil Mitigation Plan. He performed daily calibrations and VOC readings with a photo-ionization detector (PID). Mr. Lin contributed to the best management practices for handling, storing, and reusing soil by OCTA.
- **Private Client –** Mr. Lin was responsible for ensuring that compliance with Hazardous Materials Business Plan requirements was maintained during an acquisition of approximately 30 auto body and paint shops. He reviewed and uploaded the required information into the California Environmental Reporting Systems (CERS) Business. Mr. Lin was one of the key contacts that worked through any issues that the local CUPA addressed during this process.
- **Yusen Terminals Inc., Compliance Support –** Mr. Lin was responsible for converting and updating of the chemical inventories from physical copies to digital for Los Angeles County Fire Department (LACFD) as they transition to digital records allowing information to be more readily accessible. He reviewed respective companies' material safety data sheets (MSDS) for accuracy and uploaded the respective information in support of environmental compliance.
- **Enablon - Intel –** Mr. Lin was responsible for supporting the quality assurance and quality control for Enablon-Intel Environmental Health & Safety website. He edited Lang Packs to make administrative changes to website.
- Mr. Lin has experience in groundwater monitoring and storm water sampling. He is a member of the groundwater monitoring, sampling, and reporting team for AES Redondo. Mr. Lin is also part of the Malibu Areas of Special Biological Significance (ASBS) storm water sampling team that performs in accordance with the LACDPW ASBS Monitoring Plan.
- As a Student Research Assistant at the **San Luis Obispo Air Pollution Control District**, Mr. Lin assisted the District staff with a 6-month community particulate matter monitoring project that included performing weekly portable Environmental Beta Attenuation Monitors (E-BAMs) quality control and quality assurance and transforming hard-copy observations and data into electronic media. He helped maintain good relationships and raised awareness in the local communities during the six months.)



Travis Stravasnik, CAC

Senior Project Manager

PROFILE

Mr. Travis Stravasnik is a Senior Project Professional for E2 ManageTech, Inc. (E2). Mr. Stravasnik has more than 15 years of experience performing and managing consulting services projects including due diligence property assessments, subsurface soil and groundwater investigations, contaminated site remediation, school siting and acquisition, asbestos and lead-based paint surveys, and abatement oversight.

Mr. Stravasnik utilizes his breadth of experience to lead clients in implementing Brownfield assessment and remediation grants, planning for redevelopment and construction, managing real estate portfolios, and maintain compliance programs. Mr. Stravasnik maintains a good working relationship with local, state, and federal regulatory agencies, including the U.S. Environmental Protection Agency (EPA), San Diego County Department of Environmental Health, and California Department of Toxic Substances Control (DTSC).

Mr. Stravasnik also the E2 Corporate Health & Safety Manager. In this capacity he manages E2's health and safety programs, implements employee trainings and ensures communication of hazards.

Mr. Stravasnik's representative project experience includes:

EXPERIENCE

- From 2005 to present, Mr. Stravasnik has served as the Project Manager for the **Grossmont Union High School District**, Alpine/High School No. 12 project. In this capacity, Mr. Stravasnik serves as the program manager for site selection and acquisition, as well as compliance with CEQA, for this project in located in the Alpine community of east San Diego County. Services include assessment of the District and community needs, preparation of an Environmental Impact Report (EIR) and associated public notifications for the selected alternatives, preparation of hazardous materials assessments, preliminary design in coordination with the architect and CDE, preparing engineering and land purchase cost estimates, and making informational presentations at community and Governing Board meetings. Mr. Stravasnik is currently leading the CEQA compliance efforts for the EIR, including resource agency permitting and management of mitigation monitoring and reporting. Concurrent activities include implementation of a

EXPERTISE

- Due Diligence
- Environmental Assessments
- Hazardous Materials Building Surveys
- Asbestos Abatement Oversight
- Site Investigations
- Public Outreach
- Contract Oversight and Budget Control
- Regulatory Agency Coordination

REGISTRATIONS

Certified Asbestos Consultant California, #07-4296

CERTIFICATIONS

40-hr Hazwoper

24-hr Construction Stormwater Pollution Prevention Training

AHERA Building Inspector, Contractor Supervisor, Management Planner, and Project Designer Certifications

PROFESSIONAL HISTORY

E2 ManageTech, Inc., Senior Project Professional, 2008 – Present

Essentia Management Services, Senior Project Professional, 2005-2008

Ninyo & Moore, Project Environmental Scientist, 1998-2005

EDUCATION

University of California, Santa Barbara, CA. BS, Environmental Studies, 1997

Removal Action Workplan (RAW) to remove and dispose of soil that is contaminated with pesticides and coordination with DTSC for case closure. Mr. Stravasnik also recently assisted in the preparation of background materials for CDE SFPD Form 4.07, including Title 5 reporting criteria.

- From 2010 to 2012, Mr. Stravasnik served as Project Manager to provide the **San Diego Unified School District** with consulting services related to unexploded ordnance (UXO) planning and response. Solutions provided included designing mitigation measures for use in Mitigated Negative Declarations (MNDs) that are prepared for school improvements and developing UXO response plans for use by construction personnel.

- In 2011 Mr. Stravasnik served as Project Manager to prepare Title 5 Safety Analysis Reports for seven sites with the **Grossmont Union High School District**. This project included research to evaluate potential safety hazards related to geology and soils, hazardous air emissions, hazardous substance release sites, power line easements, underground pipelines, railroad tracks, and runways. The reports were used as backup for reporting to the CDE, and as required in the MNDs for each modernization project.

- From 2003 to 2005, Mr. Stravasnik was involved in the Environmental Program Management Services for the **San Diego Unified School District**. Mr. Stravasnik worked from inside the District offices to manage site assessment and cleanup projects at school sites as part of the $1.51 billion, Proposition MM bond measure funding the construction of 12 new schools and 3 rebuilt schools. Responsibilities included preparing and reviewing Preliminary Environmental Assessments (PEAs) and RAWs, and acting as liaison with DTSC for the approval of cleanup activities.

- From 2006 to 2007, Mr. Stravasnik acted as the site manager and owner's representative to oversee abatement of asbestos-containing materials (ACMs) and lead-based paint (LBP) from Units 1 and 2 of the **El Segundo Power Generating Station**. Due to an aggressive schedule, field activities were conducted on a seven-day-per-week schedule. As the site manager, it was critical to coordinate the abatement tasks with other plant-related operations and construction projects. Responsibilities included tracking and control of the industrial hygienist and abatement contractor, and ensuring compliance with the Conditions of Compliance (COCs) as required by the California Energy Commission. Project operations management included leading daily project meetings, documenting daily operations in field reports, tracking hazardous waste generation and shipments, and reviewing air monitoring results and containment inspections. Contract management tasks included comparing the achievement of milestones to the project schedule, review and approval of daily timesheets, and review of contractor invoices. Other duties included implementation of the site-specific Health and Safety Plan measures, response to

contractor and plant-related health and safety hazards, and preparation of incident investigations for injuries and/or near-miss incidents.

- Project Manager from 2008 to 2010 for an on-call services contract with the **Port of Los Angeles**. Under this contract Mr. Stravasnik completed an Indoor air quality survey for the Port's administration building as a result of concerns that were expressed by building occupants that they were being exposed to hazardous emissions from building renovation activities. Mr. Stravasnik has also completed a hazardous materials building survey for an approximate 100,000 square feet warehouse building that was scheduled for retrofitting. Upon completion of the survey, Mr. Stravasnik prepared asbestos abatement specifications for the candidate contractors.

- From 2007 to 2010 Mr. Stravasnik served E2's Project Manager for an on-call environmental services contract with the **Community Redevelopment Agency of Los Angeles**. Under this agreement, Mr. Stravasnik was responsible for conducting Phase I Environmental Site Assessments and Phase II Site Investigations. As part of the contract Mr. Stravasnik conducted a Phase II Site Investigation on a parcel that was being used as a child day-care center to assess whether the occupants of the day-care facility are being exposed to hazardous vapors that could be migrating from the subsurface inside the facility building. In addition to the Phase I and Phase II investigations, Mr. Stravasnik prepared several Area-Wide Inventories of Brownfield Assessment Grant areas.

- From 2010 to 2013, Mr. Stravasnik was the Project Manager responsible to coordinate, manage, and implement two, $200,000 Community-Wide Brownfield Assessment Grants on behalf of the **City of Vista Community Development Commission**. Mr. Stravasnik led the E2 team to produce a GIS-compatible Area-Wide Inventory for the 3,800-acre Redevelopment Area, Phase I ESAs at 38 properties, subsurface soil and groundwater investigations at 5 properties, asbestos and lead-based paint surveys, and a Supplemental Site Investigation under DTSC oversight. Grant administration activities included coordination of funding eligibility with the EPA Brownfield Coordinator, preparation of status reports, uploading information on the EPA ACRES website, and tracking the goals stated in the Grant Work Plan.

- From 2012 to 2013, Mr. Stravasnik was the Project Manager for Environmental Due Diligence at the **Port of Long Beach** Interim Headquarters Facility. Services included a Phase I ESA, a hazardous building materials survey, and an indoor air quality evaluation. Recommendations were made to repair water damaged building improvements, remove areas of microbial growth, and repair or update the HVAC system.

- From 2009 to 2010 Mr. Stravasnik provided SWPPP inspection services for various construction projects and linear facilities owned by **SDG&E**. Site inspections were conducted to document compliance with the SWPPP and

SDG&E BMP Manual for the projects with observations related to sediment control, waste management and material controls, non-stormwater discharge controls, erosion control, and soil stabilization. Mr. Stravasnik developed recommendations to prevent releases and confirm that the construction projects were prepared for predicted storm events

- From 2012 to 2013 Mr. Stravasnik was the Project Manager for Phase I ESA and Due Diligence activities at properties acquired by the Port of Long Beach for the Gerald Desmond Bridge Replacement Project. For the NRG Long Beach Generating Station site, Mr. Stravasnik identified activity and use limitations related to an Environmental Covenant with the DTSC, regulatory requirements related to a RCRA Corrective Action, potential impacts to groundwater dewatering effluent and associated discharge permits, and previously unidentified fuel oil USTs. At the Clean Energy Lease site Recognized Environmental Conditions included historical oil production activities and surface waste sumps, metals and VOC impacts to groundwater, and potential impacts from methane gas. Asbestos and lead-based paint surveys were also conducted four properties in the project footprint.

- In 2013 Mr. Stravasnik was the Project Manager for two Phase I ESAs, a Phase II Site Investigation, and a hazardous building materials survey at the Tidelands Oil Warehouse property and Tidelands Oil Storage Yard. The project sites were within the alignment of the Gerald Desmond Bridge Replacement Project, and conducted on behalf of the Port of Long Beach. Research showed RECs associated with historical oil production and underground pipelines, a clarifier and sump, oil collection channels, and former electrical transformer storage. A Phase II Site Investigation consisted of collecting soil and soil vapor samples from 28 locations. Detected contaminants were not delineated, however, their concentrations were compared with published screening values for the proposed land use.

- In 2013 Mr. Stravasnik was the Project Manager for the preparation of a Phase I ESA that addressed a portfolio of 31 separate properties being considered for potential sale that were distributed throughout Inglewood, California. The properties were divided into nine groups and methodically evaluated through the use of tables and area summaries. This unique report met the requirements of the ASTM E1527-05 standard while providing the City with single guide for addressing environmental issues prior to marketing the properties for sale.

- From 2012 to 2014 Mr. Stravasnik has provided environmental soil testing and guidance at four locations to the San Bernardino City Unified School District for the import of soil to new K-12 school construction sites. Mr. Stravasnik designed testing regimens in accordance with the DTSC's Information Advisory for Clean Imported Fill. In order to obtain a concurrence letter for import to the Pakuma School site, and environmental oversight agreement (EOA) with the DTSC was

prepared. A letter report describing historical research and environmental testing results was prepared for DTSC review.

- In 2013 Mr. Stravasnik served as technical reviewer for the Environmental Contamination and Hazards section of an Environmental Assessment that was prepared pursuant to the National Environmental Policy Act (NEPA). The project applicant, Plains All American Pipeline (PAALP), proposed to replace and reroute a petroleum product pipeline in Castaic, California. Mr. Stravasnik also provided quality control review for the Traffic, Geology and Soils, and Socioeconomics and Environmental Justice sections of the report.



Daryl P. Hernandez, PE, QSD

Principal, Project Manager

EXPERTISE

- Program & Project Management
- Brownfields Redevelopment
- Preliminary Endangerment Assessments
- Remedial Investigations
- Feasibility Studies
- Remedial/Removal Plans
- Site Investigations and Site Assessments
- RCRA Facility Assessments

PROFILE

As a Principal of E2 ManageTech, Inc. (E2), Daryl Hernandez has 20 years of experience in conducting environmental site assessments (ESAs) and remedial actions in compliance with regulatory agency oversight. Mr. Hernandez has provided his skillful services for preparing winning Brownfields grant applications, and managing Brownfields projects. Mr. Hernandez has been actively involved with the National Brownfield Associations by sponsoring local meetings, and presenting at the Annual 2006 and 2007 Conferences. Mr. Hernandez has been responsible for obtaining Department of Toxic Substances Control (DTSC) and U.S. EPA Brownfields grants of more than $300,000 for his clients.

Mr. Hernandez has managed site assessments, soil and groundwater investigations, facility audits, soil remediation projects, waste minimization projects, and environmental due diligence services. Responsibilities included agency negotiations with the DTSC, preparing work plans, evaluating analytical data, developing cost estimates, managing field efforts, client coordination, and cost and schedule controls.

Mr. Hernandez' representative project experience includes the following activities:

EXPERIENCE

- **Mr. Hernandez is currently the Project Manager for an on-call environmental services contract with the National City Community Development Commission.** Under this contract, Mr. Hernandez was responsible for writing three Brownfields grant proposals that were submitted to DTSC and U.S. EPA. In addition to writing the grant applications, Mr. Hernandez was responsible for organizing the community outreach efforts required for the grant proposals, and developing the cost estimates. Additionally, Mr. Hernandez was responsible for providing technical support and leadership for developing a site investigation strategy for a blighted neighborhood for which a Specific Plan is currently being prepared. Mr. Hernandez helped National City win an EPA Brownfield grant of $200,000.
- **Mr. Hernandez is E2's Project Manager for an environmental on-call services contract with the City of San Diego Centre City Development Corporation (CCDC).** Under this contract, Mr. Hernandez has been responsible for conducting several Phase I Environmental Site Assessments at properties that CCDC is

REGISTRATION

Registered Civil Engineer: California, No. C57326, 1997

Certified Qualified SWPPP Developer (QSD)

EDUCATION

California State University, Fullerton: BS, Civil Engineering, 1990

AFFILIATIONS

National Brownfields Association

California Redevelopment Agency

Society of American Military Engineers

Hispanic Chambers of Commerce

PROFESSIONAL HISTORY

E2 ManageTech, Inc., Principal, 2008 - Present

Essentia Management Services LLC, Vice President, 2002 - 2008

URS Corporation, Senior Project Engineer, 1995 - 2002

CH2M HILL, Inc., Hazardous Waste Engineer, 1990 – 1995

PRESENTATIONS

Expedited Site Cleanup Beyond Good Science, November 2006, Brownfields 2006 Conference, Boston, Massachusetts

School Site Development and Cleanup, October 2003, ENTECH 2003, Los Angeles, California

Harry Bridges Boulevard Redevelopment, October 2000,

interested in purchasing and using for City-provided services. Mr. Hernandez is also providing expert third-party review services for work that is being completed by a property owner's consultant on a parcel that CCDC is interested in acquiring. The purpose of Mr. Hernandez' review is to ensure that the site data can be used to determine potential risks to future occupants of the property and affirm that CCDC would be eligible for purchaser protections offered under the Polanco Act.

- From January 2005 through July 2007, **Mr. Hernandez served as Project Manager for an on-call environmental services contract to conduct Targeted Site Investigations throughout Southern California on behalf of DTSC.** For this contract, Mr. Hernandez' responsibilities have included developing site investigation strategies at Brownfields sites, coordinating site access with property owners and tenants, coordinating and implementing community outreach activities, providing technical leadership to the project team, and developing cleanup cost estimates. During this contract, Mr. Hernandez investigated a variety of sites including industrial fill areas, active industrial and commercial facilities, and auto shops that would be redeveloped by other city redevelopment agencies.
- Since November 2005, Mr. Hernandez has served as the **Project Manager for locating a new high school site and acquiring the necessary property to develop a new high school for the Grossmont Union High School District.** Mr. Hernandez is responsible for determining the best location to develop a new high school in consideration of California Education Code requirements, conducting all community outreach efforts, coordinating project activities with district and regulatory agency personnel, conducting environmental site assessment and removal action activities, and coordinating CEQA actions. Additionally, Mr. Hernandez is responsible for coordinating all property acquisition efforts between the school district and property owners.
- From June 2001 to 2005, Mr. Hernandez has served as the **Program Manager for an on-call environmental services contract for the San Diego Unified School District in San Diego**, California. Responsibilities include conducting Phase I and II ESAs, Preliminary Endangerment Assessments (PEAs), lead-paint and asbestos investigations and mitigation, pipeline risk analysis and geology/soils technical studies for proposed land purchases in support of the District's $1.5 billion Proposition MM program. Under this contract, Mr. Hernandez has managed 15 Phase I ESAs and geo-hazard surveys and eight PEAs. In addition, Mr. Hernandez is responsible for preparing the California Department of Education Environmental Oversight Program Applications on behalf of the District. Other services provided include conducting electromagnetic surveys and pipeline risk assessments at new school sites. In order to expedite DTSC oversight activities, Mr. Hernandez has successfully established a Master Oversight Agreement between the District and DTSC. This Master Agreement resulted in expedited DTSC reviews and reduced costs and schedules associated with Phase I and PEA projects.
- Since 2001, Mr. Hernandez served as the **Senior Technical Advisor for a site-specific Environmental Baseline Survey (EBS) and Finding of Suitability to**

REFERENCES

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Tel: (619) 336-4286

Mr. David Allsbrook
San Diego Centre City Development Corporation
Tel: (619) 533-7112

Mr. Javier Hinojosa
California Department of Toxic Substances Control
Tel: (818) 551-2172

Transfer (FOST) that was developed for the disposal of the Tea Cup Parcel at Marine Corps Air Station (MCAS) Miramar. Mr. Hernandez was responsible for ensuring that the EBS and the FOST were prepared in accordance the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 120(h), and the requirements of CERFA. Mr. Hernandez was also responsible for coordinating technical reviews with Navy and Marine Corps personnel.

- From 2000 to 2002, **Mr. Hernandez was the Project Manager responsible for conducting more than 12 PEAs for proposed school sites within the Los Angeles Unified School District jurisdiction**. As Project Manager, Mr. Hernandez was responsible for developing PEA Work Plans, negotiating site assessment strategies with the DTSC, implementing PEA Work Plans, conducting human health risk assessments, and preparing PEA reports. Mr. Hernandez has successfully achieved recommendations of "No Further Action" from DTSC within a 5-month time period.
- From 2000 to 2001, **Mr. Hernandez served as Project Manager for a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) at China Lake Naval Air Weapons Station (NAWS)**. The Installation is currently in the early stages of conducting an RFA. Mr. Hernandez developed the Preliminary Review/Visual Site Inspection Work Plan that was implemented on behalf of the DTSC to inspect and identify possible solid waste management units/areas of concern (SWMUs/AOCs) at facilities throughout the 1.4-million acre Installation.
- From 1997 through 1998, Mr. Hernandez served as **Program Manager for a task order-based environmental investigation and remediation contract with the California Environmental Protection Agency (EPA), DTSC, Region 3 Site Mitigation Branch.** As Program Manager, Mr. Hernandez managed multiple PEA and Remedial Investigations/Feasibility Studies (RI/FSs) at various facilities throughout Southern California and performed a Hazard Ranking Analysis for manufacturing facilities located in San Fernando, California. As a result of this project, Mr. Hernandez has developed an outstanding working relationship with DTSC's Region 3 Site Mitigation Branch.

D-2 Project Effect Assessment

CLARK SEIF CLARK, INC.
HEALTH & SAFETY • ENGINEERING • ENVIRONMENTAL

Draft Preliminary Environmental Assessment Equivalent Report

North Hollywood High School



Prepared for:

Los Angeles Unified School District
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Los Angeles, California 90017
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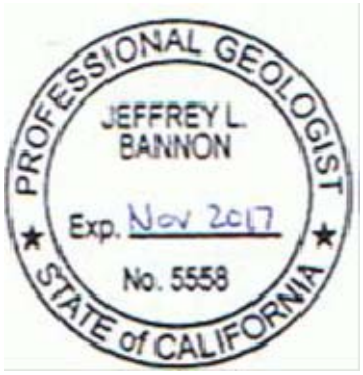

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List of Acronyms

bgs	below ground surface
CalEPA	California Environmental Protection Agency
COPC	Chemicals of potential concern
DTSC	Department of Toxic Substances Control
ESA	Environmental Site Assessment
ft	feet
in	inch
LAUSD	Los Angeles Unified School District
mg/kg	milligram/kilogram
mg/L	milligram/Liter
msl	mean sea level
OCP	organochlorine pesticides
PAH	polynuclear aromatic hydrocarbon
PCB	polychlorinated biphenyl
PEA	Preliminary Environmental Assessment
PG	Professional Geologist
QA/QC	quality assurance/quality control
RAW	Removal Action Workplan
RSL	Regional Screening Level
SIM	Selective Ion Monitoring
Site	North Hollywood High School, 5231 Colfax Avenue, North Hollywood, CA
STLC	Soluble Threshold Limit Concentration
SVOC	semi-volatile organic compound
TCLP	Toxicity Characteristic Leaching Procedure
TPH	total petroleum hydrocarbons
µg/kg	microgram/kilogram
USA	Underground Service Alert
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

Draft Preliminary Environmental Assessment Equivalent Report North Hollywood High School

EXECUTIVE SUMMARY

The following Draft Preliminary Environmental Assessment Equivalent (PEA-E) report has been prepared by Clark-Seif-Clark, Inc. (CSC) on behalf of the Los Angeles Unified School District (LAUSD) for portions of the existing North Hollywood High School as part of a Comprehensive Modernization Project at the school. North Hollywood High School is located at 5231 Colfax Avenue on the northwest corner at the intersection of Colfax and Magnolia Avenues in North Hollywood, California 91601 (Figure 1). The school site is approximately 22-acres and developed with 10 permanent buildings and approximately 20 modular buildings. The school buildings include classrooms, offices, cafeteria, gym, auto shop, and a wood shop (Figure 2). Other parts of the school include a sports field, petting zoo, agriculture area, courtyards, walkways, and landscaped areas.

The school site was undeveloped until at least 1927/1928 when the high school was built. A Phase I Environmental Site Assessment (E2 ManageTech, Inc., August 25, 2016) and PEA Equivalent Sampling locations document (E2 ManageTech, Inc., August 24, 2016) identified the following items of potential environmental concern to be evaluated by sampling:

- Several septic tanks, drywells and cesspools
- Hydraulic lifts and clarifier at the Auto Shop
- Aerial deposition from two incinerators/chimneys
- Impact to soil from lead-based paint, arsenic and/or organochlorine pesticides (OCP).

Field activities included a total of 119 initial soil borings with an additional 31 step-outs borings at locations where concentrations exceeded screening levels. A total of 15 soil vapor probes were also completed on site. Initial field sampling activities were completed in November and December 2016, and step-out borings were installed in March, April, and June 2017. In addition, nine initial borings were installed around the East Gym in July 2017 which was added to the PEA sampling program. Samples collected from the Site were selectively analyzed for OCPs by EPA Method 8081, lead and arsenic by EPA Method 6010, total petroleum hydrocarbons (TPH) by EPA Method 8015M, volatile organic compounds (VOCs) by EPA Method 8260B, semi-volatile organic compounds (SVOCs) by 8270C, polychlorinated biphenyls (PCBs) by EPA Method 8082, and polyaromatic hydrocarbon (PAHs) by 8270 SIM. Soil vapor samples were analyzed for VOCs by EPA Method 8260B.

No VOCs were detected above laboratory detection limits in any of the soil vapor samples collected from the Site (Table 1). In addition, no TPH, VOCs, SVOCs, PAHS, or PCBs were detected above laboratory detection limits in any soil samples (Table 2).

OCPs detected at the site included chlordane (alpha, gamma, total), 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endrin, endrin aldehyde, and heptachlor epoxide. None of these constituents were detected above screening levels (Table 3).

Lead and arsenic data for samples from shallow borings adjacent to buildings is summarized in Table 4. Metal concentrations in soil samples adjacent to the Septic Pits are summarized on Table 5. Metals concentrations were within typical background ranges for California soils with the exception of lead and arsenic concentrations in a few samples summarized below:

- Lead was initially detected above 80 mg/kg at 13 soil sample locations (SB043, SB051, SB065, SB067, SB068, SB069, SB071, SB072, SB094, SB100, SB109, SB114, and SB115) at concentrations ranging from 81.4 to 357 mg/kg.

- Arsenic was initially detected above 12 mg/kg in four soil sample locations (SB041, SB061, SB102, and SB119) at concentrations ranging from 15.7 to 54.5 mg/kg.

Additional step-out sampling was completed at sample locations where arsenic or lead concentrations exceeded screening levels to delineate extent of impact. Those areas identified with lead or arsenic concentrations above screening levels should be remediated as part of the Comprehensive Modernization Project planned at the school. A Removal Action Work Plan (RAW) should be prepared to describe the procedure for remediating soil with elevated lead or arsenic concentrations to acceptable levels.

1.0 INTRODUCTION

The following report summarizes methods, observations and results of a soil and soil vapor investigation completed at North Hollywood High School, 5231 Colfax Avenue, North Hollywood, California (Figure 1). Work was conducted by Clark Seif Clark, Inc. (CSC) on behalf of the Los Angeles Unified School District (LAUSD) for portions of the existing North Hollywood High School as part of a Comprehensive Modernization Project at the school. Initial field activities were conducted in November and December 2016, and step-out sampling was completed in March, April, June, and July 2017 in accordance with LAUSD Work Plan (E2 ManageTech, Inc., August 2016). In addition, nine initial soil borings were installed around the East Gym in July 2017 which was added to the PEA sampling program. The scope of work included collection of soil and soil vapor samples for analysis of chemicals of potential concern (COPC).

The objective of the PEA-E investigation was to:

- Determine through sampling and analyses whether historical uses at the Site resulted in deposition of COPC in soil or soil vapor.
- Determine the amount, concentration and extent of COPC on site.
- Evaluate potential risk posed by identified impacts.
- Recommend further action or no further action based on findings.

2.0 SITE DESCRIPTION

Site description information was obtained from a Phase I Environmental Site Assessment (ESA) prepared for the Site (E2 ManageTech, Inc., August 2016).

2.1 Site Identification

The site is identified as North Hollywood High School and the property has been assigned Los Angeles Assessor's Parcel Number 2348-013-900.

2.2 Site Description

North Hollywood High School is located at 5231 Colfax Avenue on the northwest corner of the intersection of Colfax and Magnolia Avenues in the North Hollywood, California 91601 (Figure 1). The School site is approximately 22-acres and developed with 10 permanent buildings and approximately 20 modular buildings. The school buildings include classrooms, offices, cafeteria, gym, auto shop, and a wood shop (Figure 2). Other parts of the school include a sports field, petting zoo, agriculture area, courtyards, walkways, and landscaped areas.

Adjacent and surrounding sites consist mostly of multifamily residences. Commercial/retail businesses (barbershop, donut shop, fast food restaurant) are located to the southeast. No environmental concerns from adjacent or nearby sites were identified in the Phase I assessment.

2.3 Designated Contact Person

The Deputy Director of the LAUSD Office of Environmental Health and Safety, Mr. Pat Schanen, is the designated contact person. Mr. Schanen's contact information is listed below.

Los Angeles Unified School District
Office of Environmental Health & Safety
333 South Beaudry Avenue, 28th Floor
Los Angeles, California 90017
213.241.3199

3.0 SITE BACKGROUND

Site background information was obtained from a Phase I ESA (E2 ManageTech, Inc., August 25, 2016). The site was undeveloped until at least 1927/1928 when the school was built. Several areas of environmental concern were identified at the school and are described below and shown on Figures 2 and 3.

- West Gym – A transformer vault/switchboard room and a boiler room were present from as early as 1955 to 1969. The time these features were no longer used is unknown. Historical boilers may have used bunker fuel or diesel fuel stored in USTs. However, evidence of historical USTs for the boilers was not identified.
- Computer Labs – A Metal Shop, Graphic Art area, and Electric Shop were present in this area of the school in 1964 and operated for an unknown period of time.
- Auto Shop – An auto shop has been present since 1964. Hydraulic hoists and a three-stage clarifier are present at the Auto Shop.
- Wood Shop – The present Wood Shop was previously used as the Auto Shop. An incinerator/chimney was located at the Wood Shop.
- Historic Print Shop – Located in the area north of the Cafeteria from as early as 1955 to 1961.
- Septic tanks / drywells / cesspools – Building plans from 1930, 1933, and 1964 indicated a total of four septic pits and seven cesspools were located on site. In addition, a "chemical cesspool" and "concrete yard and grease pit" were located on site.

The following Recognized Environmental Conditions (RECs) were identified during the Phase I ESA:

- Potential subsurface releases from solvent usage at the Metal Shop, Graphic Arts Area, and an Electric Shop which were located in the present Computer Lab location;
- Potential subsurface releases of automotive chemicals, petroleum–based products or solvents at the present Auto Shop as well as from hydraulic lifts and a clarifier located at the Auto Shop;
- Potential releases of petroleum–based products or solvents at the former Wood Shop, located in the present Auto Shop;
- Potential releases of COPC at several septic tanks, drywells, and cesspools located on site;
- Aerial deposition of COPC from an incinerator/chimney located in the basement of East Gym/Auditorium and at an incinerator/chimney located in the present Wood Shop building;
- Potential releases of solvents and printing chemicals at the former Print Shop, located north of the present Cafeteria;
- Lead-based paint, arsenic, and/or OCPs which may have been used on site.

A PEA Equivalent Sampling Locations document (E2 ManageTech, Inc., August 24, 2016) was prepared to evaluate RECs identified in the Phase I ESA. Field and analytical work completed in this assessment was based this document. A copy of the PEA Equivalent Sampling Locations document is provided in Appendix A.

4.0 APPARENT PROBLEM

The Phase I ESA identified several areas of concern on the school where potential COPC could be present. Based on activities conducted on the school campus which included possible usage of solvents or petroleum-products, historical cesspits/dry wells/septic tanks, a grease pit, a clarifier, as well as lead-based paint, arsenic, and/or OCPs in shallow soils, COPC include OCPs, lead, arsenic, and other metals, TPH, VOCs, SVOCs, and PAHs. The sampling effort was designed to assess concentrations of COPC (if any) in the subsurface and provide sufficient data to evaluate potential risk to human health.

5.0 ENVIRONMENTAL SETTING

This section describes topography, geology, and hydrogeology and potential exposure pathways associated the site environmental setting.

5.1 Topography

According to the US Geological Survey, Van Nuys, topographic map, the site is at an elevation of approximately 640 feet above mean sea level. The topography in the immediate area is generally flat with a slight slope to the southeast. The nearest water body towards the southeast direction from the school is located approximately 1.5 miles away.

5.2 Geology

The site is located within the Transverse Ranges Province in the Los Angeles Basin. Subsurface sediments consist of younger and older alluvial deposits of interbedded silts, sands, and gravels from the Santa Monica Mountains. A possible unnamed fault crosses the site from northeast to southwest and is depicted on US Geological Society Quaternary Faults Map (E2 ManageTech, Inc., August 25, 2016). Sediments encountered during drilling consisted mostly of fine silty sand and sand.

5.3 Hydrogeology

Groundwater information from nearby sites indicated groundwater is first encountered at depths ranging from 130 to 150 feet below ground surface. Groundwater in the area is expected to flow north and east towards the Central Branch Tujunga Wash.

5.4 Factors Related to Soil Pathways

The investigation focused on shallow soils where direct dermal contact with soil is the most likely exposure pathway for students or future construction workers. Current exposure is limited to bare dirt areas which are primarily confined to planter boxes and tree wells. Future direct dermal exposure to construction workers is possible during demolition and re-construction activities if impacted soil has not been removed prior to work.

5.5 Factors Related to Water Pathways

Based on depth to groundwater and the nearest water body, no impacts to ground or surface water are expected from COPC at the school.

5.6 Factors Related to Air Pathways

Non-volatile constituents bound to dust particles is the primary exposure route comprising the air pathway. Lead and arsenic could be released via the air pathway.

Potential exposure from a former incinerator/chimney located in the basement of East Gym/Auditorium, a former incinerator/chimney located in the present Wood Shop building and an inactive paint spray booth is no longer considered potential air pathways.

6.0 SAMPLING ACTIVITIES

Field activities included a total of 119 initial soil borings with an additional 31 step-outs borings at locations where concentrations exceeded screening levels. The majority of borings locations (SB21-SB109 and SB111 to SB119) where drilled to 2.5 feet to collect shallow samples for arsenic, lead and OCPs. A total of 21 borings were drilled to depths between 8 and 40 feet to evaluate potential impacts associated with hydraulic lifts, auto shop clarifier, a historical grease pit, 3 historical septic tanks, and 8 historical cesspool/drywells. A total of 15 soil vapor probes were also completed on site to evaluate potential VOC impacts associated with former site activities.

Initial field sampling activities were completed in November and December 2016, and step-out borings were installed in March, April, and June 2017. In addition, nine initial borings were installed around the East Gym in July 2017 which was added to the PEA sampling program. Samples collected from the Site were selectively analyzed for OCPs by EPA Method 8081, lead and arsenic by EPA Method 6010, TPH by EPA Method 8015M, VOCs by EPA Method 8260B, SVOCs by 8270C, PCBs by EPA Method 8082, and PAHs by 8270 SIM. All work was conducted under direction of a registered California Professional Geologist. Photos of the school and sampling locations are provided in Appendix B.

6.1 Community Notifications

Prior to sampling activities, the school's students, faculty, and immediate school neighbors were notified of the investigation with an Assessment Work Notice. The Assessment Work Notice was mailed to all of the school's students, hand delivered to immediate neighbors, and copies were provided to school faculty. A copy of the Assessment Work Notice is provided in Appendix C.

6.2 Health and Safety Plan

A site-specific health and safety plan to evaluate concerns associated with the investigation was implemented. The health and safety plan included safety meetings prior to start of field activities to make site personnel aware of site-related health and safety issues.

6.3 Pre-Sampling Site Inspection

Prior to initiating field activities, the site was visited with LAUSD OEHS to assess sample locations. Sampling locations were based on the LAUSD work plan for the investigation (Appendix A).

6.4 Borehole Clearance

Underground Services Alert (USA) was contacted prior to sampling to clear locations of underground utilities. USA notified utility owners of up-coming sampling activity to mark locations of their lines.

Additionally, each drilling location was screened by a contracted utility locator company (on October 29 and December 10, 2016, March 18 and July 19, 2017). Equipment used to located potential subsurface obstructions included a Schonstedt GA-52 magnetic gradiometer, Geonics EM61 MK2 time domain instrument, Fisher M-Scope TW-6 pipe and cable locator, RD800 line tracer, and a GSSI SIR 3000 Ground Penetrating Radar (GPR) unit with a 400 MHz transducer. Some sampling locations were adjusted slightly to avoid underground utilities.

6.5 Sampling Locations

Soil samples locations and depths were completed as specified in the PEA Equivalent Sampling Locations document and are described below. Sampling locations are shown on Figures 2 to 16.

Locations SB001 to SB007 were located in the Auto Shop to assess the hydraulic hoists (Figure 4). Samples were collected at 10, 15, and 20 feet below ground surface (bgs) in these borings.

Locations SB008 to SB009 were located just outside the Auto Shop to assess the clarifier (Figures 3 and 4). Samples were collected at 4 and 8 feet bgs in these borings.

Location SB010 was located to the historical grease pit (Figure 3) with samples collected at 10 and 15 feet bgs.

Locations SB011 to SB014 were located adjacent to historical cesspools, septic pits, or dry wells (Figure 3) with samples collected at 10 and 15 feet bgs.

Locations SB015 to SB020 and SB110 were also located adjacent to historical cesspools, septic pits, or dry wells (Figure 3) with samples collected at 5, 10, 15, 20, 25, 30, 35, and 40 feet bgs.

Locations SB21 to SB109 and SB111 to SB119 were adjacent to the buildings planned for renovation (Figure 2). Samples were collected at 0 to 0.5, 1 to 1.5, and 2 to 2.5 feet bgs in these borings.

Additional soil sample borings (“step-outs”) were installed where impacts were initially identified in order to define the extent of area affected. These locations are shown on Figures 5 to 15.

Soil vapor boring locations SV1 to SV15 were completed adjacent to the Auto Shop, Computer Lab, and Wood Shop as indicated in the work plan and shown on Figure 3.

6.6 Soil Vapor Sampling

Soil vapor sampling at the school was conducted on November 19 and 20, 2016.

A total of 15 soil vapor probes were installed around the Auto Shop, Wood Shop, and Computer Lab (former location of Metal Shop, Graphic Arts Area, and an Electric Shop) to assess potential VOCs from associated activities conducted in this area of the school. Soil vapor sample locations are shown on Figure 3.

Soil vapor borings were installed to a depth of 15 feet bgs using a truck-mounted, direct-push drill rig with the vapor probes set at depths of 5 and 15 feet bgs. Nylaflow tubing (¼ inch diameter) equipped with vapor implants (filters/vapor sampling tip) was placed at the target depths with an approximate one foot sand pack (clean #4 Monterey sand). Approximately six inches of dry granular bentonite was placed above the sand pack. Hydrated bentonite granules filled the remaining bore hole.

Soil vapor samples were collected from the probes using a vacuum pump sampling system, which consists of calibrated flow meter and vacuum gauge. The soil vapor sampling system is constructed of stainless steel, glass, nylaflow and Teflon components. Vacuum integrity of the sampling system was tested prior to and after the soil vapor survey using leak-detection testing methods.

Soil vapor samples were collected using a glass syringe fitted with a disposable needle and a gas tight valve. Immediately following collection, the vapor samples were taken to the on-site mobile laboratory for analysis.

The soil vapor samples were analyzed in the field using a gas chromatogram/mass spectrometer for 30 target compounds. Sampling activities were completed in accordance to the *Leaking Underground Fuel Tank Guidance Manual*, California State Water Resources Control Board, September 2012 and *Advisory Active Soil Gas Investigations*, California Department of Toxic Substances July 2015.

6.7 Soil Sampling

Soil sampling was conducted on November 5, 6, 19, and 20, December 2, 3, and 10, 2016, and March 25, April 29, and July 20, 2017. A Geoprobe direct push rig equipped with a 2-inch diameter stainless steel sampling tube fitted with acetate tubes was used to collect most of the soil samples. Some of shallow boring locations were drilled used a hand auger where access was limited.

Soil encountered during sampling activities consisted mostly of brown silty sand and fine sand. No staining, odors, or obvious indications of contamination were observed in any of the soil samples. Lithologic logs for the deep borings are provided in Appendix D.

Soil samples were collected in certified clean 4-ounce glass jars when using hand equipment or in acetate sleeves when using a drill rig. Sample locations were identified as indicated in the work plan. Duplicate samples were collected to verify results. Samples for VOC analysis were prepared in the field using EPA Method 5035, which included three aliquots of soil preserved in sodium bisulfate and methanol.

Soil samples were properly labeled and placed in a cooled ice chest and transported to the laboratory for analysis. Standard Chain-of-Custody was maintained on all samples. Standard decontamination procedures were used during the handling of all sampling equipment in accordance with industry standard methods. Samples were picked up by the laboratory's courier on the same day of collection.

6.8 Soil Sampling Analysis Plan

A soil sampling analysis plan was prepared by E2 ManageTech and is included in Appendix A. This document outlined the proposed sampling program at the site. Soil samples collected from the school were selectively analyzed as specified by LAUSD OEHS for the following COPCs:

- OCP by EPA Method 8081
- Lead and arsenic by EPA Method 6010
- Total Petroleum Hydrocarbons (TPH) by EPA Method 8015M
- PCBs by EPA Method 8082
- VOCs by EPA Method 8260B
- Semi-Volatile Organic Compounds (SVOCs) by 8270C
- Polyromantic Hydrocarbons (PAHs) by 8270 SIM
- Title 22 Metals by 6010B/7000

Soil samples from borings adjacent to the hydraulic hoists, borings SB001 to SB007 (Figure 4), were analyzed for TPH and VOCs at 10 feet bgs in all borings except borings SB001 where both the 10 and 15 foot samples were analyzed.

Soil samples collected at 4 and 8 feet bgs adjacent to the clarifier, borings SB008 and SB009 (Figure 4), were analyzed for TPH, VOCs, and PCBs.

Soil samples collected at 10 and 15 feet bgs from the boring adjacent to a historical grease pit, boring SB010 (Figure 3), were analyzed for TPH and VOCs.

Soil samples at all depths from borings adjacent to historical cesspools, septic pits, or dry wells, borings SB011 to SB020 and SB110 (Figure 3), were analyzed for TPH, VOCs, PAHs, and metals.

Soil samples from shallow borings adjacent to buildings for renovation, SB21 to SB108 (Figure 2), were first analyzed for arsenic, lead, and OCPs from 0.5 feet bgs. Deeper samples from 1.5 and 2.5 feet bgs were analyzed based on results of upper samples. Shallow borings adjacent to east gym, SB111 to SB119 (Figure 2), were analyzed at all shallow sample depths of 0.5, 1.5, and 2.5 feet bgs for arsenic, lead, and OCPs.

The soil sample collected at 0.5 feet bgs from the boring adjacent to the incinerator, boring SB109 (Figure 3), was analyzed for SVOCs and metals.

6.9 Bulk Sample

One bulk sample was collected of residual ash/debris in the school's incinerator which is no longer in use. The sample was collected directly from the incinerator into a clean 4-ounce glass jar and analyzed for SVOCs by EPA Method 8270C and Title 22 Metals by EPA Method 6010B/7000.

6.10 Analytical Laboratories

Soil samples were analyzed at Chemtek Environmental Laboratories of Santa Fe Springs CA, and at American Environmental Testing Laboratory of Burbank CA, both state-certified laboratories. Soil vapor samples were analyzed onsite by Optimal Technology of Thousand Oaks CA, also a state-certified laboratory.

6.11 Other Contractors

Soil boring drilling, soil sampling, and soil vapor probe installation was completed by Kehoe Engineering and Testing of Huntington Beach CA. Geophysical surveys of the sample areas were completed by Southwest Geophysics of San Diego CA.

6.12 Variances

One sample location (SB029) was not analyzed for OCPs. However, low concentrations of OCPs below screening levels were detected in sample SB030 located approximately 25 feet south of SB029 on the other side of the building. This data characterizes OCP concentrations in this area.

An additional possible septic pit or dry well was discovered during the course of the investigation when school staff notified CSC of the location. A soil boring (SB110) was placed adjacent to the additional possible septic pit or dry well and analyzed for the same constituents as other septic pits/dry wells.

One additional dual-soil vapor probe was installed, sampled, and analyzed for VOCs than indicated on the work plan (a total of 15 dual-soil vapor probes installed rather than 14).

Shallow borings, SB111 to SB119, were installed adjacent to the east gym in July 2017; this building is also planned to be renovated as well. Soil samples were analyzed for arsenic, lead, and OCPs at depths of 0.5, 1.5, and 2.5 feet bgs.

7.0 INVESTIGATION RESULTS

Tables 1 to 9 summarize results of the investigation. Laboratory reports are provided in Appendix E.

Lead and arsenic were the only COPC identified above screening levels. Further, the distribution of the lead and arsenic is very limited. Arsenic was detected in only four of the initial 108 locations above screening levels and lead was detected in only 13 of the initial 108 locations above screening levels. Analytical results are discussed below.

7.1 Analytical Results

Soil Vapor

No VOCs were detected in any soil vapor samples collected from the site (Table 1).

Soil

No TPH, VOCs, SVOCs, PAHs, or PCBs were detected in any of the analyzed samples (Table 2).

As shown on Table 3, OCPs detected at the site included chlordane (alpha, gamma, total), 4, 4'-DDD, 4, 4'-DDE, 4, 4'-DDT, dieldrin, endrin, endrin aldehyde, and heptachlor epoxide. None of these constituents were detected above screening levels. OCPs detections are summarized below.

- Total chlordane was detected in 29 samples from 1.82 J to 232 ug/kg.
- 4, 4'-DDD was detected in 10 samples from 1.14 J to 33.3 ug/kg.
- 4, 4'-DDE was detected in 29 samples from 1.01 J to 1,140 ug/kg.
- 4, 4'-DDT was detected in 30 samples from 1.41 J to 146 ug/kg.
- Dieldrin was detected in 13 samples from 1.08 J to 10.1 J ug/kg.
- Endrin was detected in eight samples from 1.89 J to 48.8 ug/kg.
- Endrin aldehyde was detected in three samples from 1.07 J to 1.81 J ug/kg.
- Heptachlor epoxide was detected in two samples from 1.95 J to 17.5 ug/kg.

Arsenic and lead data for samples from shallow borings adjacent to buildings is summarized in Table 4. Metal concentrations in the soil samples adjacent to the Septic Pits are summarized on Table 5. Metals concentrations were within typical background ranges for California soils with the exception of arsenic and lead concentrations as discussed below.

Arsenic was detected above 12 mg/kg in only four of 108 initial soil sample locations (SB041, SB061, SB102, and SB119) at concentrations ranging from 15.7 to 54.5 mg/kg.

Lead was detected above 80 mg/kg in only 13 of 108 initial soil sample locations (SB043, SB051, SB065, SB067, SB068, SB069, SB071, SB072, SB094, SB100, SB109, SB114, and SB115) at concentrations ranging from 81.4 to 357 mg/kg. All but one of these 13 sample locations were located in planter areas where soil is exposed.

Additional Soil Sampling ("Step-outs")

Areas with arsenic or lead above screening levels were identified in the following locations:

- SB041 – Arsenic – three step-out borings
- SB043 – Lead – no step-out borings
- SB051 – Lead – no step-out borings
- SB061 – Arsenic – three step-out borings
- SB065 – Lead – two step-out borings
- SB067 – Lead – four step-out borings
- SB068 – Lead – four step-out borings
- SB069 – Lead – one step-out boring
- SB071 – Lead – two step-out borings
- SB072 – Lead – no step-out borings
- SB094 – Lead – one step-out borings
- SB100 – Lead – two step-out borings
- SB102 – Arsenic – eight step-out borings
- SB109 – Lead – one step-out boring
- SB114 – Lead – no step-out borings
- SB115 – Lead – no step-out borings
- SB119 – Arsenic – no step-out borings

Additional sampling was completed at sample locations with arsenic or lead concentrations above screening levels in order to define the limits of impact. Additional sample locations were generally located at 5-foot spaced intervals in all available directions (north, east, south, and west). However, underground utility lines, building walls, and/or fences were not crossed when trying to find the lateral limits, as specified by LAUSD. If an underground utility line, building, or fences impeded the lateral direction of a step-out sample's location, no sample was collected and the lateral limit was defined by the utility line or fence.

The lateral and vertical limits of arsenic or lead impacts have been defined by either soil sampling data or by underground utility / building wall / fence. Figures for areas with step-out sample locations depict underground utilities and any other obstructions (Figures 5-15). Photos of these areas are provided in Appendix B. Additional soil sampling data is included in Table 4.

Location SB041 (Figure 5)

Sample location SB041 was located in an asphalt paved area adjacent to the north side of a modular classroom building. Arsenic was initially detected at 32.2 mg/kg at 0.5 feet bgs, 25.9 mg/kg at 1.5 feet bgs, and not detected at 2.5 feet bgs. Arsenic was not detected or below 12 mg/kg in samples from step-out borings SB041S2 and SB041S3 located to the north and east of SB041. A modular classroom building is located immediately south of SB065. Underground utility lines were identified to the north, east, and west beyond the step-out borings.

Location SB043 (No figure since no step-outs samples at this location)

Sample location SB043 was located in an unpaved area adjacent to the south side of a modular classroom building inside the petting zoo. Lead was initially detected in samples from boring SB043 at 168 mg/kg at 0.5 feet bgs and at 12.6 mg/kg at 1.5 feet bgs. No additional sampling was conducted at SB043 due to underground utility lines to the east and south, a fence to the west, and a fence and modular classroom building to the north of SB043.

Location SB051 (No figure since no step-outs samples at this location)

Sample location SB051 was located in a landscaped area adjacent to the north side of the Chicken Shack building in the petting zoo. Lead was initially detected in samples from boring SB051 at 96.7 mg/kg at 0.5 feet bgs, and at 25.9 mg/kg at 1.5 feet bgs. No additional sampling was conducted at SB051 due to underground utility lines to the north and west, a fence to the east, and Chicken Shack building to the south of SB043.

Location SB061 (Figure 6)

Sample location SB061 was located in an asphalt paved walkway area adjacent to the south side of the Auto Shop building. Arsenic was initially detected at 15.7 mg/kg at 0.5 feet bgs and not detected at 1.5 feet bgs. Arsenic was not detected in samples from step-out borings SB061S1, SB061S2 and SB061S3 located to the east and west of SB061. The Auto Shop building is located immediately north of SB061. Underground utility lines were identified to the immediate south, east and west beyond SB061S1 and SB061S3.

Location SB065 (Figure 7)

Sample location SB065 was located in a landscaped planter area adjacent to the southwest side of the Classroom 1 building. Lead was initially detected at 149 mg/kg at 0.5 feet bgs and at 8.9 mg/kg at 1.5 feet bgs. Lead was not detected or below 80 mg/kg in samples from step-out borings SB065S1 and SB065S2 located to the north and south of SB065. A classroom building is located immediately east of SB065. An underground utility line was identified to the immediate east.

Location SB067 (Figure 8)

Sample location SB067 was located in a landscaped planter area adjacent to the southeast side of the Classroom 1 building. Lead was initially detected at 207 mg/kg at 0.5 feet bgs and at 14.6 mg/kg at 1.5 feet bgs. Lead was below 80 mg/kg in samples from step-out borings SB067S1 and SB067S2 located to the north and south of SB067. However, lead was detected above 80 mg/kg in SB067S4 at 176 mg/kg a utility line is south beyond SB067S4. A classroom building is located immediately west of SB067. No samples were collected to the east of SB067, as specified by LAUSD; additional samples were limited to the planter area which has a curb and pavement beyond planter area.

Location SB068 (Figure 9)

Sample location SB068 was located in a landscaped planter area adjacent to the northeast side of the Classroom 1 building. Lead was initially detected at 211 mg/kg at 0.5 feet bgs and at 50.7 mg/kg at 1.5 feet bgs. Lead was not detected or below 80 mg/kg in samples from step-out borings SB068S1, SB068S2, SB068S3, and SB068S4 located to the north, east, and south of SB069. A classroom building is located immediately west of SB068.

Location SB069 (Figure 10)

Sample location SB069 was located in a landscaped planter area adjacent to the north side of the Classroom 1 building. Lead was initially detected at 131 mg/kg at 0.5 feet bgs and at 11.8 mg/kg at 1.5 feet bgs. Lead was not detected in samples from step-out boring SB069S1 located to the west of SB069. A classroom building is located immediately south of SB069. Underground utility lines were identified to the immediate north, west and east beyond SB069S1.

Location SB071 (No figure since no step-outs samples at this location)

Sample location SB071 was located in a planter area adjacent to the east side of the Wood Shop building. Lead was initially detected in samples from boring SB071 at 130 mg/kg at 0.5 feet bgs and at 11.8 mg/kg at 1.5 feet bgs. No additional sampling was conducted at SB071 as specified by LAUSD, impacted area is assumed to be limited to planter area.

Location SB072 (Figure 11)

Sample location SB072 was located in a central planter / tree well that is surrounded by a cement paved area adjacent to the south side of the Wood Shop building. Lead was initially detected in samples from boring SB072 at 94.2 mg/kg at 0.5 feet bgs and at 2.05 mg/kg at 1.5 feet bgs. Tree wells / planters are located directly east and west. Lead was detected at low concentrations below 80 mg/kg in samples from step-out borings placed in the adjacent tree wells (SB071S1 and SB072).

Location SB094 (Figure 12)

Sample location SB094 was located in an asphalt paved walkway area adjacent to the east side of the Parent & Family Center building. Lead was initially detected at 81.4 mg/kg at 0.5 feet bgs, 155 mg/kg at 1.5 feet bgs, and 71 mg/kg feet bgs. Lead was not detected in samples from step-out boring SB094S1 located to the north of SB094. The Parent and Family Center building is located immediately west of SB094. Underground utility lines were identified to the immediate east and south; another utility line was located beyond SB094S1.

Location SB100 (Figure 13)

Sample location SB100 was located in a grass field area adjacent to the north side of the band room building. Lead was initially detected at 125 mg/kg at 0.5 feet bgs and at 3.13 mg/kg at 1.5 feet bgs. Lead was either not detected or below the action limit of 80 mg/kg in samples from step-out borings SB100S1 and SB100S2 located to the immediate east and west of SB100. The Band Room building is located immediately south of SB100 and an underground line is between the Band Room building and SB100. Underground utility lines were also identified to the north of location SB100 (beyond SB100S1 and SB100S2).

Location SB102 (Figure 14)

Sample location SB102 was located in an asphalt paved storage area adjacent to the south side of the Band room building. Arsenic was initially detected at 54 mg/kg at 0.5 feet bgs and not detected at 1.5 feet bgs. Arsenic was either not detected in samples from step-out borings SB102S3, SB102S5, and SB102S6 located to the east, west, and south of SB102. A storage container partially blocked the area to the west of SB102. The Band Room building is located immediately north of SB102.

Location SB109 (Figure 15)

Sample location SB109 was located in a landscaped area adjacent to the north side of the Wood Shop building. Lead was initially detected in samples from boring SB109 at 101 mg/kg at 0.5 feet bgs, at 132 mg/kg at 1.5 feet bgs, and at 88.8 mg/kg at 2.5 feet bgs. Lead was not detected or below 80 mg/kg in the samples from the step-out boring, SB109S1, located to the west SB109. A classroom building is located immediately south of SB109. An underground utility line was identified to the immediate east and a bench and concrete walkway is to the north of SB109.

7.2 Summary of Impacted Areas

Initial sampling identified 17 locations where soil results exceeded DTSC screening levels. The extent of soil impact above screening levels was delineated by step-out borings or physical constraints as summarized below. An overview of the school showing the impacted areas is provided as Figure 16.

A breakdown of the estimated volume of impacted soil for each location is included on Table 6. As shown on Table 6, a total of 71 cubic yards of soil impacted with lead or arsenic should be removed as part of the modernization project. A summary of waste characterization for each impacted area is provided on Table 7.

Location SB041

Sample location SB041 was located in an asphalt paved area adjacent to the north side of a modular classroom building. Arsenic impacted soil above 12 mg/kg is limited to an approximate seven by 15 foot area to a depth of 3 feet bgs. Calculated volume in this area is approximately 11.7 cubic yards.

Location SB043

Sample location SB043 was located in an unpaved area adjacent to the south side of a modular classroom building inside the petting zoo. Lead impacted soil above 80 mg/kg is limited to an approximate eight by eight foot area to a depth of 1.5 feet bgs. Calculated volume in this area is approximately 3.6 cubic yards.

Location SB051

Sample location SB051 was located in a landscaped area adjacent to the north side of the Chicken Shack building in the petting zoo. Lead impacted soil above 80 mg/kg is limited to an approximate five by 10 foot area to a depth of 1.5 feet bgs. Calculated volume in this area is approximately 2.8 cubic yards.

Location SB061

Sample location SB061 was located in an asphalt paved walkway area adjacent to the south side of the Auto Shop building. Arsenic impacted soil above 12 mg/kg is limited to an approximate five by 10 foot area to a depth of 1.5 feet bgs. Calculated volume in this area is approximately 2.8 cubic yards.

Location SB065

Sample location SB065 was located in a landscaped planter area adjacent to the southwest side of the Classroom 1 building. Lead impacted soil above 80 mg/kg is limited to an approximate five by 30 foot area in the planter to a depth of 1.5 feet bgs. Calculated volume in this area is approximately 8.3 cubic yards.

Location SB067

Sample location SB067 was located in a landscaped planter area adjacent to the southeast side of the Classroom 1 building. Lead impacted soil above 80 mg/kg is limited to an approximate eight by 15 foot area in the planter to a depth of 1.5 feet bgs. Calculated volume in this area is approximately 6.7 cubic yards.

Location SB068

Sample location SB068 was located in a landscaped planter area adjacent to the northeast side of the Classroom 1 building. Lead impacted soil above 80 mg/kg is limited to an approximate eight by 10 foot area in the planter to a depth of 1.5 feet bgs. Calculated volume in this area is approximately 4.4 cubic yards.

Location SB069

Sample location SB069 was located in a landscaped planter area adjacent to the north side of the Classroom 1 building. Lead impacted soil above 80 mg/kg is limited to an approximate five by 10 foot area in the planter to a depth of 1.5 feet bgs. Calculated volume in this area is approximately 2.8 cubic yards.

Location SB071

Sample location SB071 was located in a planter area adjacent to the east side of the Wood Shop building. Lead impacted soil above 80 mg/kg is limited to an approximate five by five foot area in the planter to a depth of 2.5 feet bgs. Calculated volume in this area is approximately 2.3 cubic yards.

Location SB072

Sample location SB072 was located in a central planter / tree well that is surrounded by a cement paved area adjacent to the south side of the Wood Shop building. Lead impacted soil above 80 mg/kg is limited to an approximate five by five foot area in the planter / tree well to a depth of 1.5 feet bgs. Calculated volume in this area is approximately 1.4 cubic yards.

Location SB094

Sample location SB094 was located in an asphalt paved walkway area adjacent to the east side of the Parent & Family Center building. Lead impacted soil above 80 mg/kg is limited to an approximate three by five foot area to a depth of 2.5 feet bgs. Calculated volume in this area is approximately 1.4 cubic yards.

Location SB100

Sample location SB100 was located in a grass field area adjacent to the north side of the band room building. Lead impacted soil above 80 mg/kg is limited to an approximate five by five foot area to a depth of 1.5 feet bgs. Calculated volume in this area is approximately 1.4 cubic yards.

Location SB102

Sample location SB102 was located in an asphalt paved storage area adjacent to the south side of the Band room building. Arsenic impacted soil above 12 mg/kg is limited to an approximate five by 10 foot area to a depth of 2.5 feet bgs and a 16 by 14 foot area to a depth of 1.5 feet bgs. Calculated volume in this area is approximately 14.3 cubic yards.

Location SB109

Sample location SB109 was located in a landscaped area adjacent to the north side of the Wood Shop building. Lead impacted soil above 80 mg/kg is limited to an approximate five by five foot area to a depth of 2.5 feet bgs. Calculated volume in this area is approximately 2.3 cubic yards.

Locations SB114, SB115, and SB119

The extent of lead (SB114 and SB115) and arsenic (SB119) impacts has yet to be determined at locations SB114, SB115, and SB119. Step-out sampling will be conducted at these locations and the data included in a supplemental report. For this report, lead impacted soil above 80 mg/kg was assumed to be limited to an approximate five by five foot area to a depth of 1.5 feet bgs at location SB114 and SB115. Arsenic impacted soil above 12 mg/kg was assumed to be limited to an approximate five by five foot area to a depth of 2.5 feet bgs at location SB119.

7.3 Bulk Sample Results

Results for the sample of debris ash from the incinerator are summarized on Table 8. Benzoic acid was the only SVOCs detected at 4,300 ug/kg. Elevated metal detections included arsenic (116 mg/kg), lead (655 mg/kg), nickel (1,040 mg/kg) and vanadium (1,670 mg/kg). Additional waste analysis for future disposal determination was performed for arsenic, lead, and nickel. Of these compounds, only nickel concentrations were above the soluble regulatory level, which would classify this material as a California hazardous waste.

7.4 Quality Assurance / Quality Control

Quality assurance and quality control (QA/QC) measures which included field and laboratory procedures were conducted during the assessment to ensure the data is accurate and representative of site conditions.

Field QA/QC procedures included using new latex/gloves during sample collection and handling, standard 3-stage decontamination of drilling / sampling equipment, and appropriate labeling, logging, and preservation of sample immediately after collection. Duplicate (co-located) sample analysis was also performed as part of QA/QC requirements.

Standard Chain-of-Custody was maintained on all samples. All samples were analyzed by the appropriate EPA testing method as specified.

Laboratory QA/QC included analysis of surrogates, laboratory blanks, matrix spike and matrix spike duplicate as appropriate. All samples were analyzed within applicable holding times and all laboratory control standards were within acceptable limits.

Laboratory data was compiled into tabular form for assessment and verification. The laboratory data was considered to meet the data quality objectives (DQOs) for accuracy, precision, completeness, representativeness, and comparability. Laboratory equipment blank sample results were within acceptable limits and/or laboratory criteria.

8.0 HUMAN HEALTH SCREENING EVAULATION

The following section discusses potential risks to human health and the environment posed by COPC identified during this investigation. Since COPC detected on site are commonly found in shallow soil in developed areas and are those commonly managed at school sites (i.e., arsenic, lead and OCP), this screening is limited to comparing results to DTSC Recommended Screening Levels (DTSC-RSL) or US EPA Regional Screening Levels (EPA-RSLs) for residential soil to determine potential health hazard posed by potential exposure on site. Since RSLs tend to utilize very conservative input values such as exposure duration and toxicity values, screening levels generally over-estimate health risks and hazards. Consequently, if site concentrations are below respective RSLs, no further risk assessment or investigation is typically warranted.

Metals are naturally occurring in soil and in the case of arsenic, naturally occurring arsenic background concentrations has been established as 12 mg/kg for Los Angeles Unified School Sites (DTSC, 2017). Additionally, the DTSC has established a lead screening level of 80 mg/kg for residential soil to be protective of students, staff and faculty (DTSC/HERO, 2016). As a result of the established and DTSC approved screening levels of 12 mg/kg for arsenic and 80 mg/kg for lead in resident soil, the screening health risks and hazards for arsenic and lead will not be quantified.

8.1 Exposure Pathways and Media of Concern

Potential exposure routes include dermal contact, incidental ingestion, and inhalation of soil and soil particulates which could possibly occur during school outdoor activities or during future construction. Because elevated concentrations are limited to shallow soil and groundwater occurs at around 130-150 feet, groundwater pathway was judged to be incomplete and was not evaluated as a potential exposure pathway.

8.2 Potentially Exposed Receptor Populations

Population potentially exposed to COPC in shallow soil includes students, faculty and staff, and future construction workers. In order to provide a conservative risk evaluation, sampling results are compared to residential screening levels. Since residential screening levels assume 24-hour a day exposure, these values will over-estimate potential hazard students, staff, and construction workers would be potentially exposed for a far shorter duration in a single day.

8.3 Human Health Screening

Human health screening was completed to evaluate potential risk posed by COPC identified in site soil. Results of the evaluation are summarized in Table 9. Using the maximum OCP concentrations detected, the calculated cumulative cancer risk is 1.74E-06 and the calculated cumulative hazard index is 3.38E-02.

Cumulative cancer risk of 1.74E-06 slightly exceeds the generally accepted departure value of 1.0E-06. Cumulative hazard index of 3.38E-02 is well below the typical departure value of 1.

Screening levels for arsenic, lead and OCPs were based on DTSC guidelines for school sites as outlined below. Toxicity values for other metals and OCPs of concern were based on.

Chemicals of Concern	Action Level (mg/kg)
Arsenic	12
Lead	80
Chlordane	0.44
DDT	1.9
DDE	2.0
DDD	2.3
Dieldrin	0.034
Endrin	19
Heptachlor Epoxide	0.070

The lead and OCP screening levels are residential values established by DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note Number 3 (June 2016). The arsenic screening value has been established by DTSC as an upper-bound background concentration for school sites in Southern California.

8.4 Ecological Screening Evaluation

North Hollywood High School is located within a completely developed residential/commercial area in the City of Los Angeles. Native wildlife or habitat does not exist within the school campus or immediate area; therefore, an ecological assessment was not conducted.

9.0 COMMUNITY OUTREACH

This report will be made available for public review. The following describes the community notification activities for this preliminary environmental assessment of the North Hollywood High School Comprehensive Modernization Project.

- A one-page public notice was prepared in accordance with the established DTSC guidelines for informing the community at and surrounding the school of the PEA field investigation. Prior to implementation of the PEA field investigation, the public notice was distributed to residents and businesses within the line-of-sight of the school campus. Additionally, copies of the notices were mailed to all students who attended the school prior to field activities and copies were provided to school faculty and staff. The public notice provided written notification in English and Spanish. Copies of the public notices are included in Appendix C. The public notices provided contact information for anyone in the community who may have questions or concerns regarding the project. No additional public participation activities were identified for the project with the exception of the 30-day Public Comment period for the Draft PEA Report.

The Draft PEA will be finalized after public comments from the 30-Day Public Comment Period are incorporated in the report.

10.0 CONCLUSIONS, SUMMARY, AND RECOMMENDATION

10.1 Conclusions

Conclusions derived from this investigation include:

- No VOCs were detected in any of the soil vapor samples collected from the Site.
- No TPH, VOCs, SVOCs, PAHS, or PCBs were detected in any of the analyzed samples.
- OCPs detected at the site included chlordane (alpha, gamma, total), 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, dieldrin, endrin, endrin aldehyde, and heptachlor epoxide, however, none of these constituents were detected above screening levels.
- Metals concentrations were within typical background ranges for California soils with the exception of lead and arsenic concentrations in a few isolated locations.
    - Lead was initially detected above 80 mg/kg at 13 soil sample locations (SB043, SB051, SB065, SB067, SB068, SB069, SB071, SB072 SB094, SB100, SB109, SB114, and SB115) at concentrations ranging from 81.4 to 357 mg/kg.
    - Arsenic was initially detected above 12 mg/kg in four soil sample locations (SB041, SB061, SB102, SB119) at concentrations ranging from 15.7 to 54.5 mg/kg.
- Additional sampling was completed at sample locations with arsenic or lead concentrations above screening levels which defined the limits of arsenic or lead impacts.
- A total of 71 cubic yards of soil impacted with lead or arsenic should be removed as part of the modernization project.
- A bulk sample was collected of residual ash/debris in the school's incinerator which is no longer in use. Elevated metal detected included arsenic (116 mg/kg), lead (655 mg/kg), nickel (1,040 mg/kg) and vanadium (1,670 mg/kg). Of these compounds, only nickel concentrations were above the soluble regulatory level, which classifies this material as a California hazardous waste.

10.2 Summary

A preliminary assessment identified RECs at the school which included possible usage of solvents or petroleum-products, historical cesspits/dry wells/septic tanks, a grease pit, a clarifier, as well as lead-based paint, arsenic, and/or OCPs in shallow soils.

These RECs were investigated with soil and soil vapor sampling. No significant subsurface impacts were identified other than some areas with arsenic and lead above screening levels.

10.3 Recommendation

Based on the findings of this investigation, the following recommendation is proposed:

- Those areas identified with lead or arsenic concentrations above action levels should be remediated as part of the Comprehensive Modernization Project planned at the school. A Removal Action Work Plan (RAW) should be prepared to describe the procedure for remediating soil with elevated lead or arsenic concentrations to screening levels.

11.0 REFERENCES

DTSC, Arsenic Strategies, Determination of Arsenic Remediation, Development of Arsenic Cleanup Goals for Proposed and Existing School Sites: Department of Toxic Substances Control, Sacramento, CA, March 21, 2007.

DTSC/HERO, Human Health Risk Assessment (HHRA) Note Number 3, DTSC-Modified Screening Levels (DTSC-SLs), January 2016,

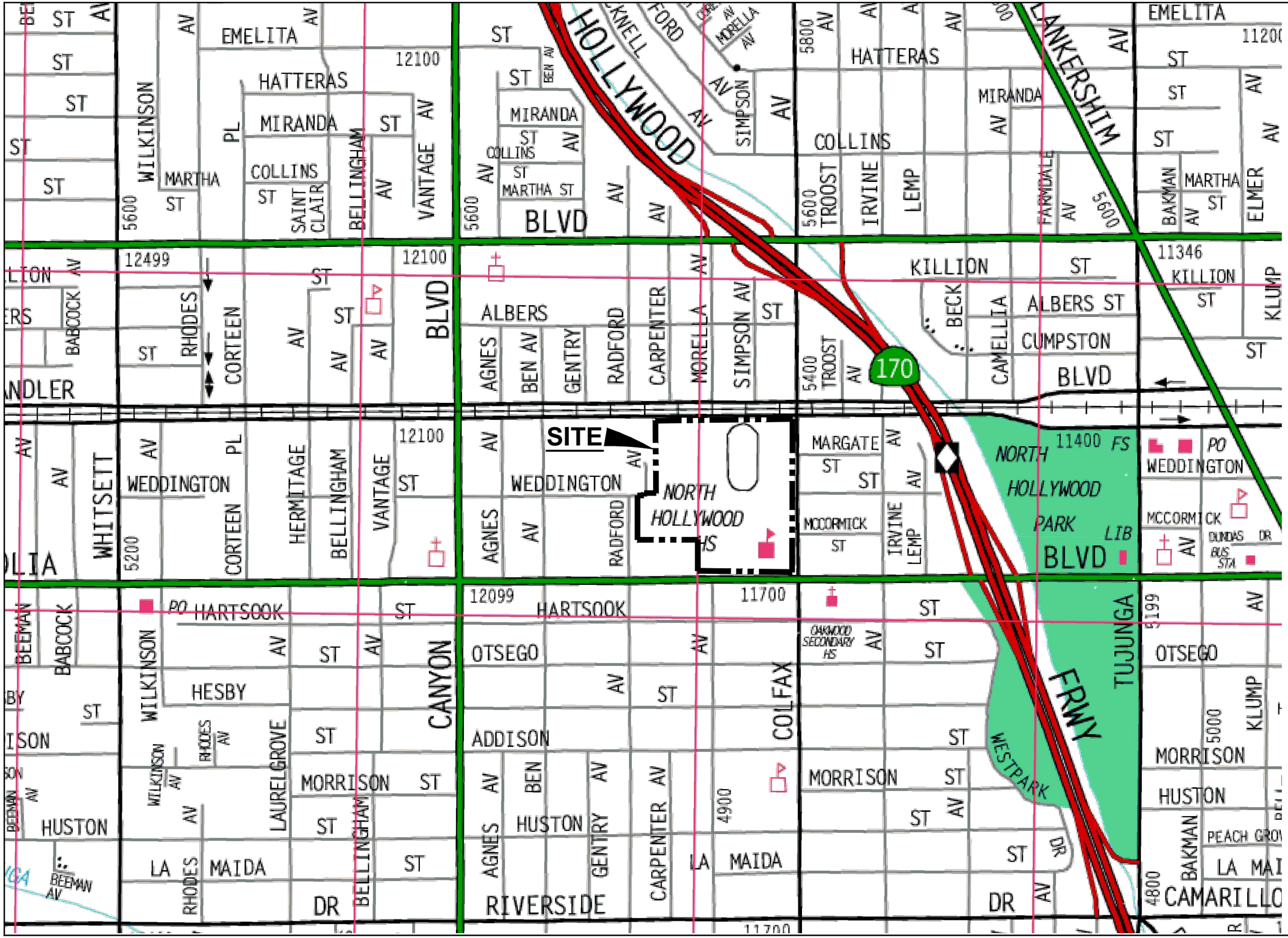
DTSC/RWQCB, Advisory for Active Soil Gas Investigations, July 2015.

DTSC Preliminary Endangerment Assessment Guidance Manual, January 1994 (Revised 2015)

E2 Managetech, *Phase I Environmental Site Assessment Report*, North Hollywood High School, 5231 Colfax Avenue, North Hollywood, CA 91601, August 25, 2016

E2 Managetech, *PEA Equivalent Sampling Locations*, North Hollywood High School, 5231 Colfax Avenue, North Hollywood, CA 91601, August 24, 2016

FIGURES



Legend

Site Location

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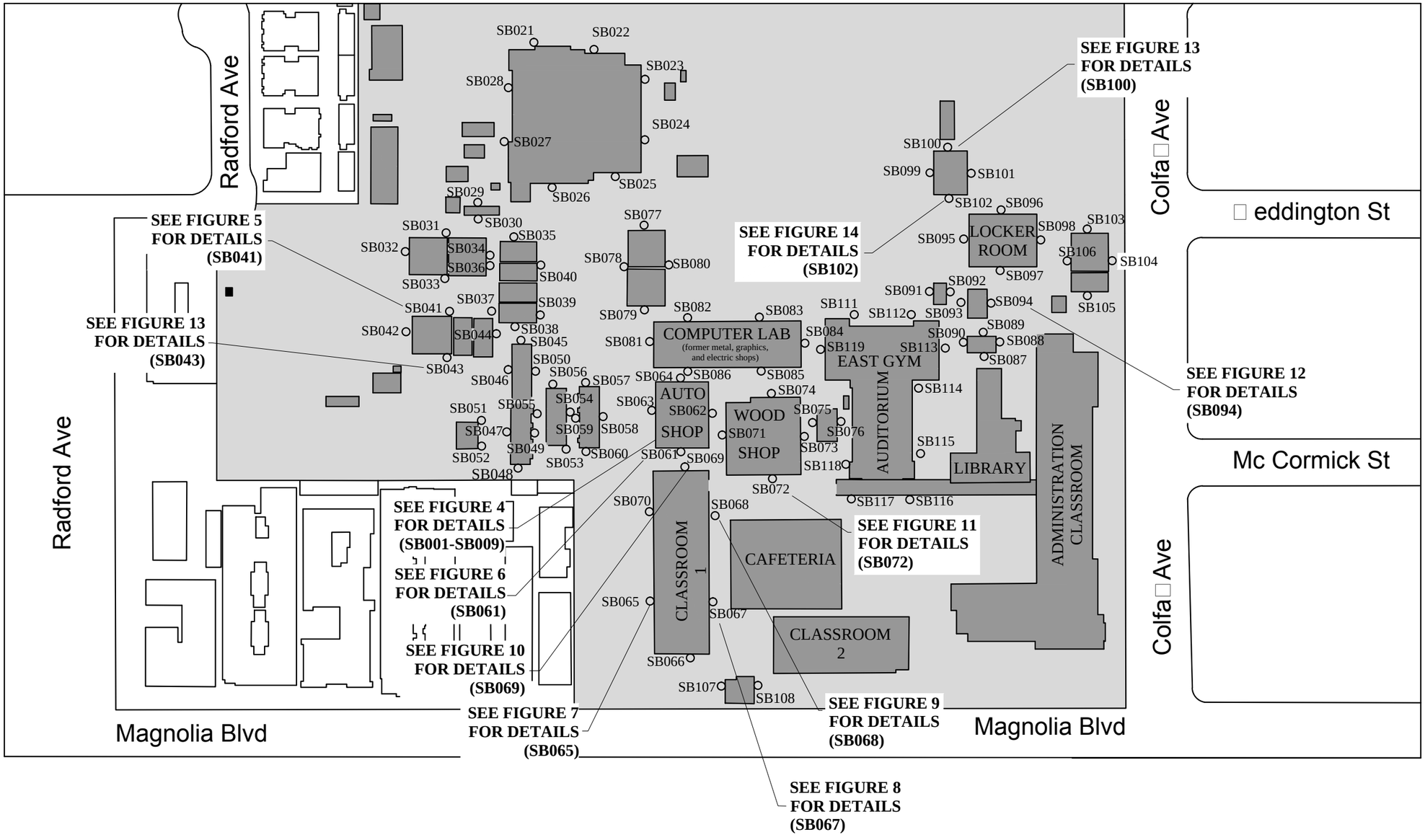
North Hollywood High School
231 Colfax Avenue
Los Angeles, CA 91601

Figure 1
Site Location Map

Project No.
400-36

August 2016



Legend

Building E□terior Samples

○ Soil Borings

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0 □0 140□

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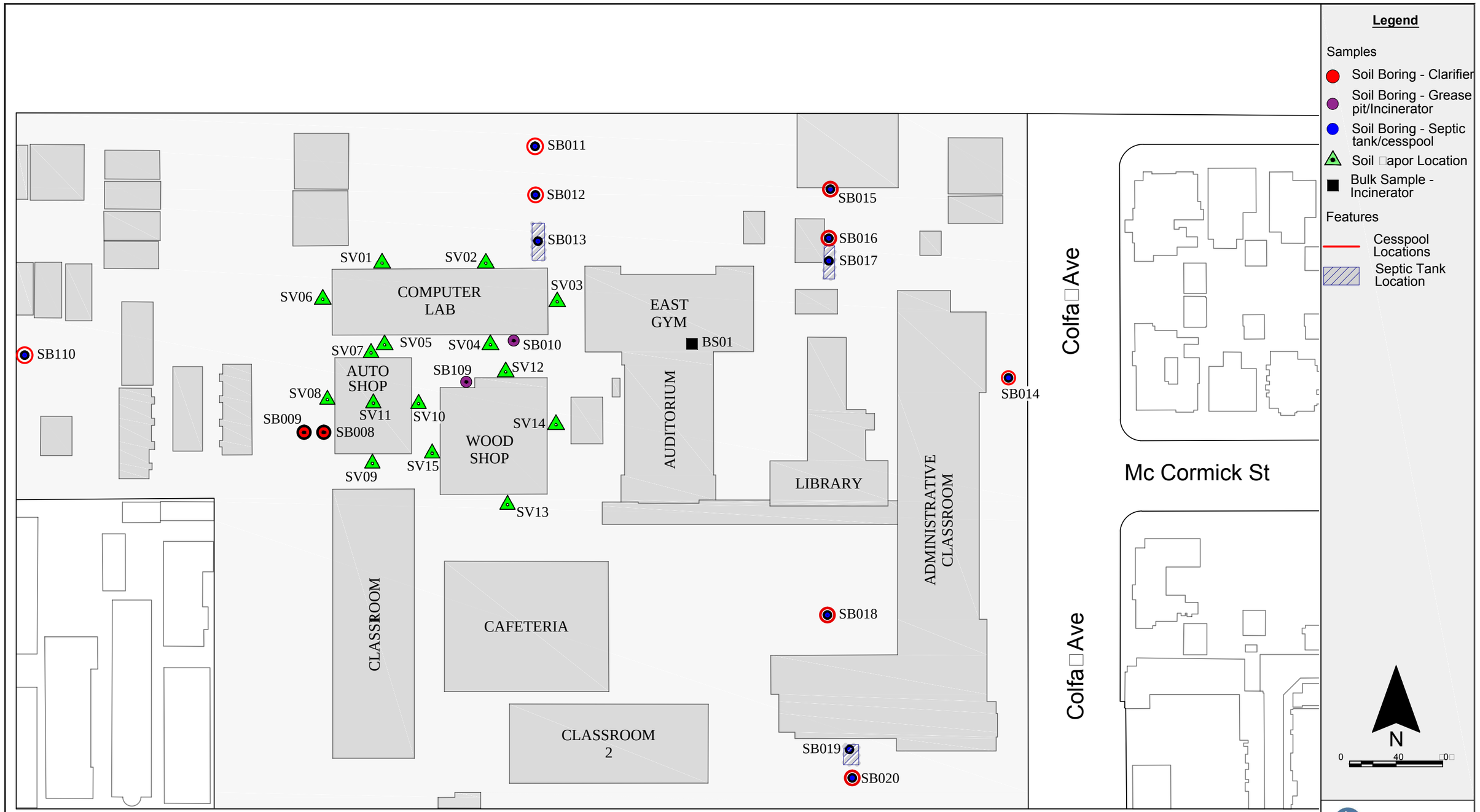
North Hollywood High School
□231 Colfa□ Avenue
Los Angeles□CA 91601

Figure 2
Shallow Soil Sampling Locations

Pro□ect No□ 400□□36

August 201□



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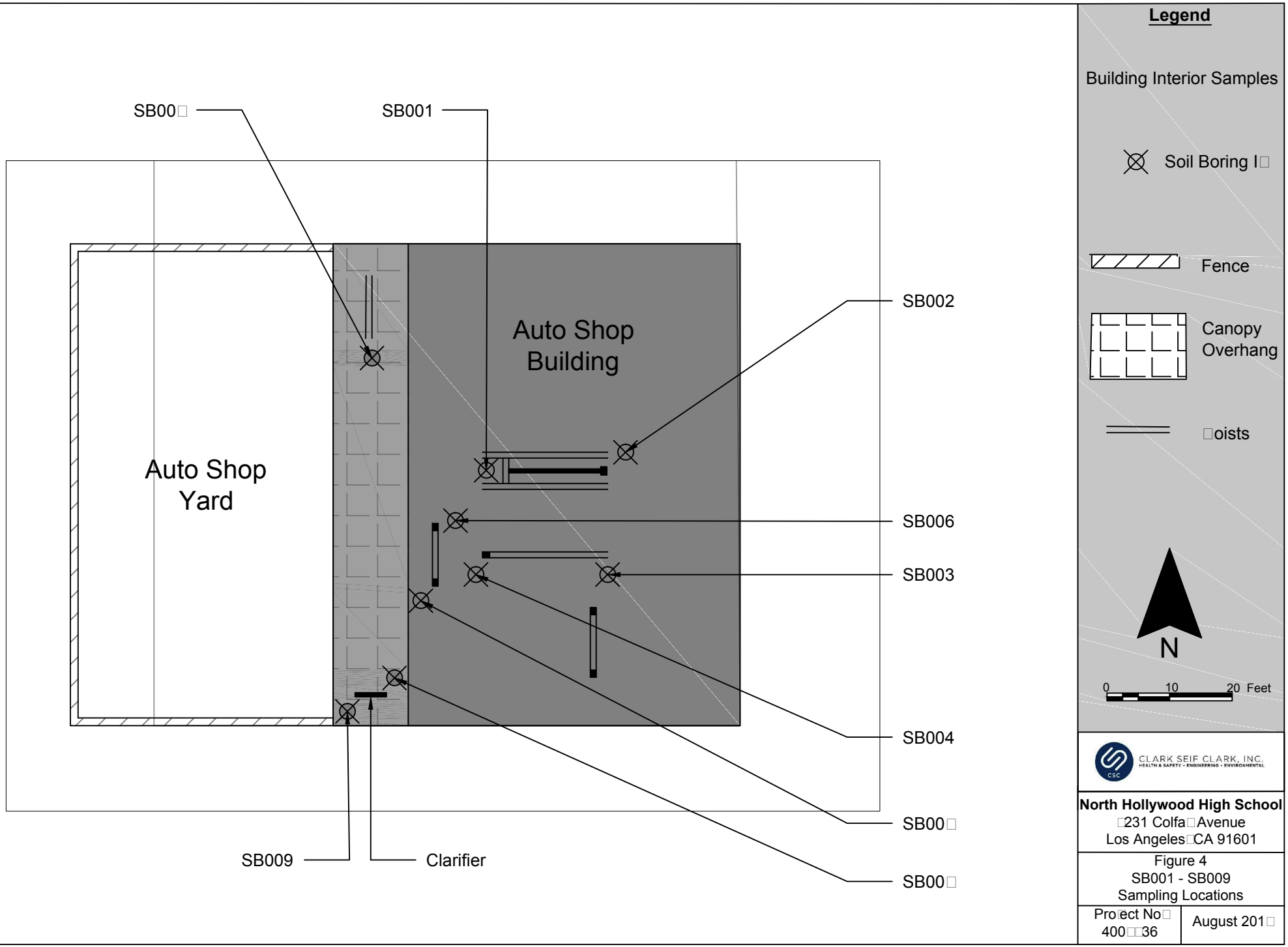
North Hollywood High School
231 Colfa Avenue
Los Angeles CA 91601

Figure 3
Additional Sampling Locations

Project No.	August 2010
400-36	


SB00□
SB001
SB002
Auto Shop Building
Auto Shop Yard
SB006
SB003
SB004
SB00□
SB00□
SB009
Clarifier
Legend
Building Interior Samples
Soil Boring I□
Fence
Canopy Overhang
□oists
N
0
10
20 Feet
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North Hollywood High School
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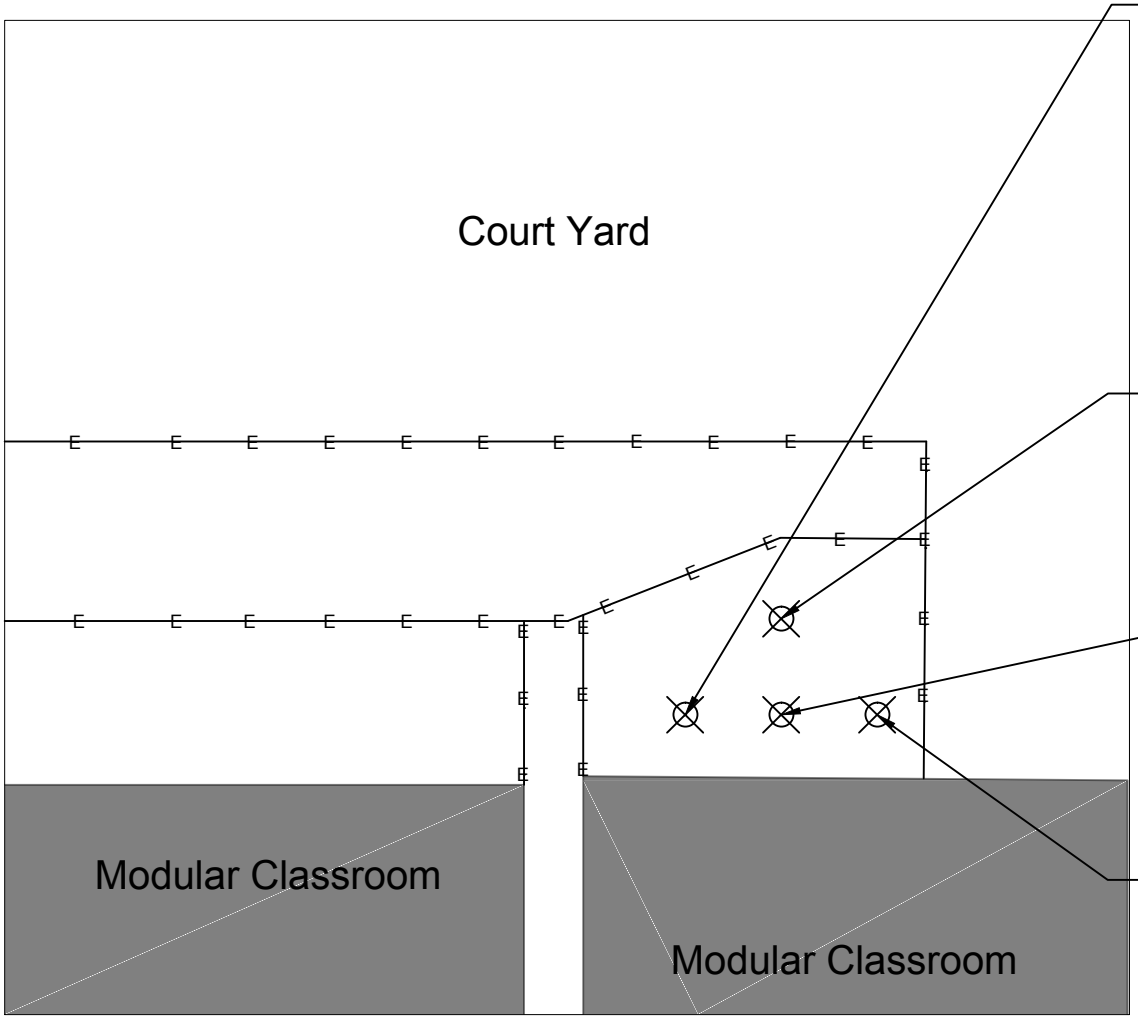
Los Angeles□CA 91601
Figure 4
SB001 - SB009
Sampling Locations
Pro□ect No□
400□□36
August 201□



SB041S1

Depth	Arsenic
0□□	N□□2□0
1□□	N□□2□0
2□□	**117**
3□0	N□□2□0
4□0	--
□□0	--

SB041S2

Depth	Arsenic
0□□	N□□2□0
1□□	N□□2□0
2□□	N□□2□0

SB041

Depth	Arsenic
0□□	**32.2**
1□□	**25.9**
2□□	--

SB041S3

Depth	Arsenic
0□□	N□□2□0
1□□	N□□2□0
2□□	□6□

Legend

Building E□terior Samples

Soil Boring I□

Proposed Soil Boring to □ft bgs

Electrical Line

- All arsenic concentrations reported in milligrams per kilogram (mg/kg)□
- Bolded results indicate concentrations e□ceeding regulatory limits□
- □epth is reported in feet below ground surface (ft□bgs)□

N

0 □ 10 Feet

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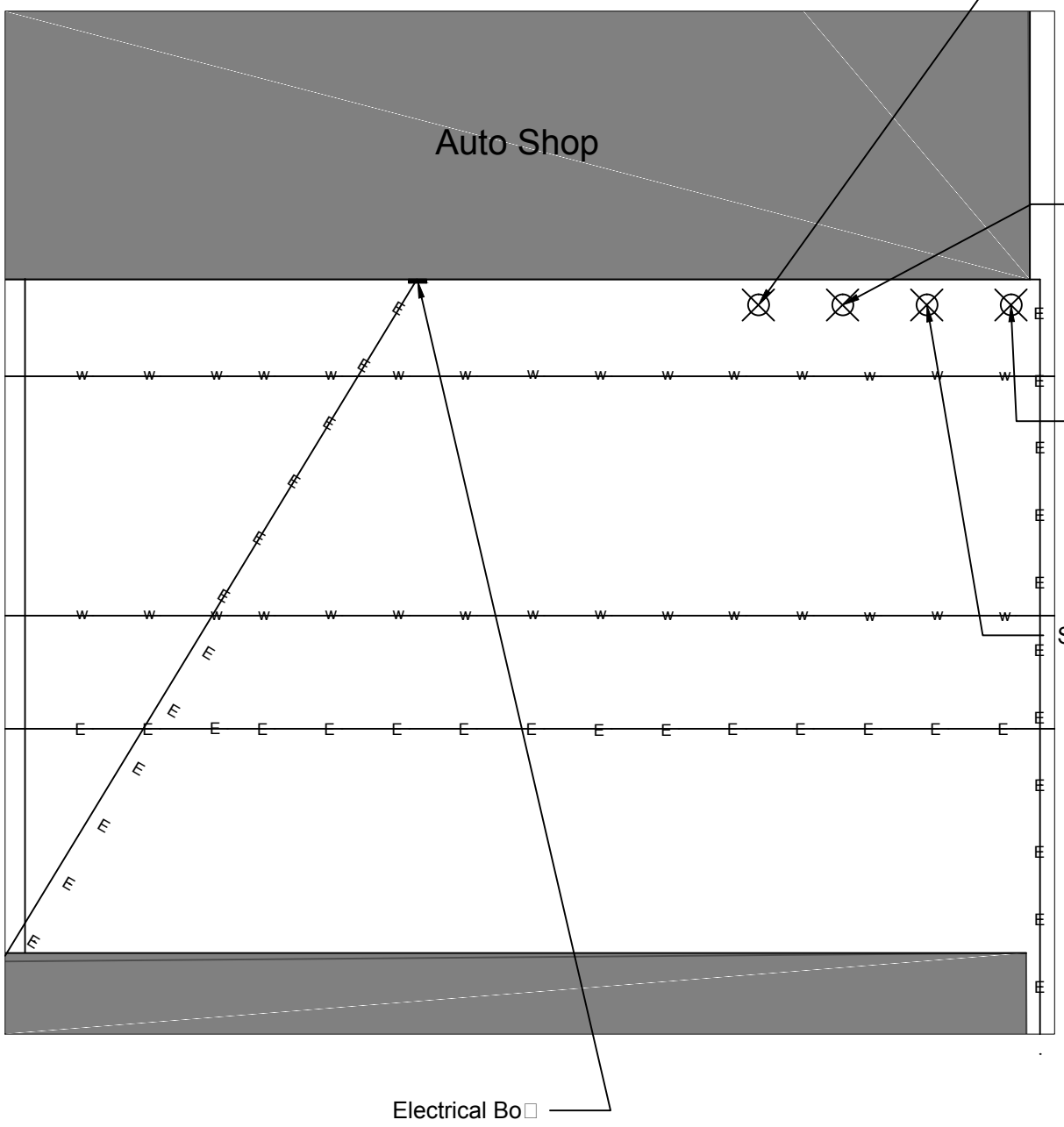
Figure □
SB041 Step - out Sampling Locations

Pro□ect No□ 400□□36

August 201□



Depth	Arsenic
0	N 2 0
1	N 2 0
2	--

Depth	Arsenic
0	**15.7**
1	N 2 0
2	--

Depth	Arsenic
0	N 2 0
1	N 2 0
2	--

Depth	Arsenic
0	N 2 0
1	N 2 0
2	--

Legend

Building E terior Samples

Soil Boring l

Electrical Line

ater Line

- All arsenic concentrations reported in milligrams per kilogram (mg/kg)
- Bolded results indicate concentrations e ceeding regulatory limits
- epth is reported in feet below ground surface (ft bgs)

N

0 10 Feet

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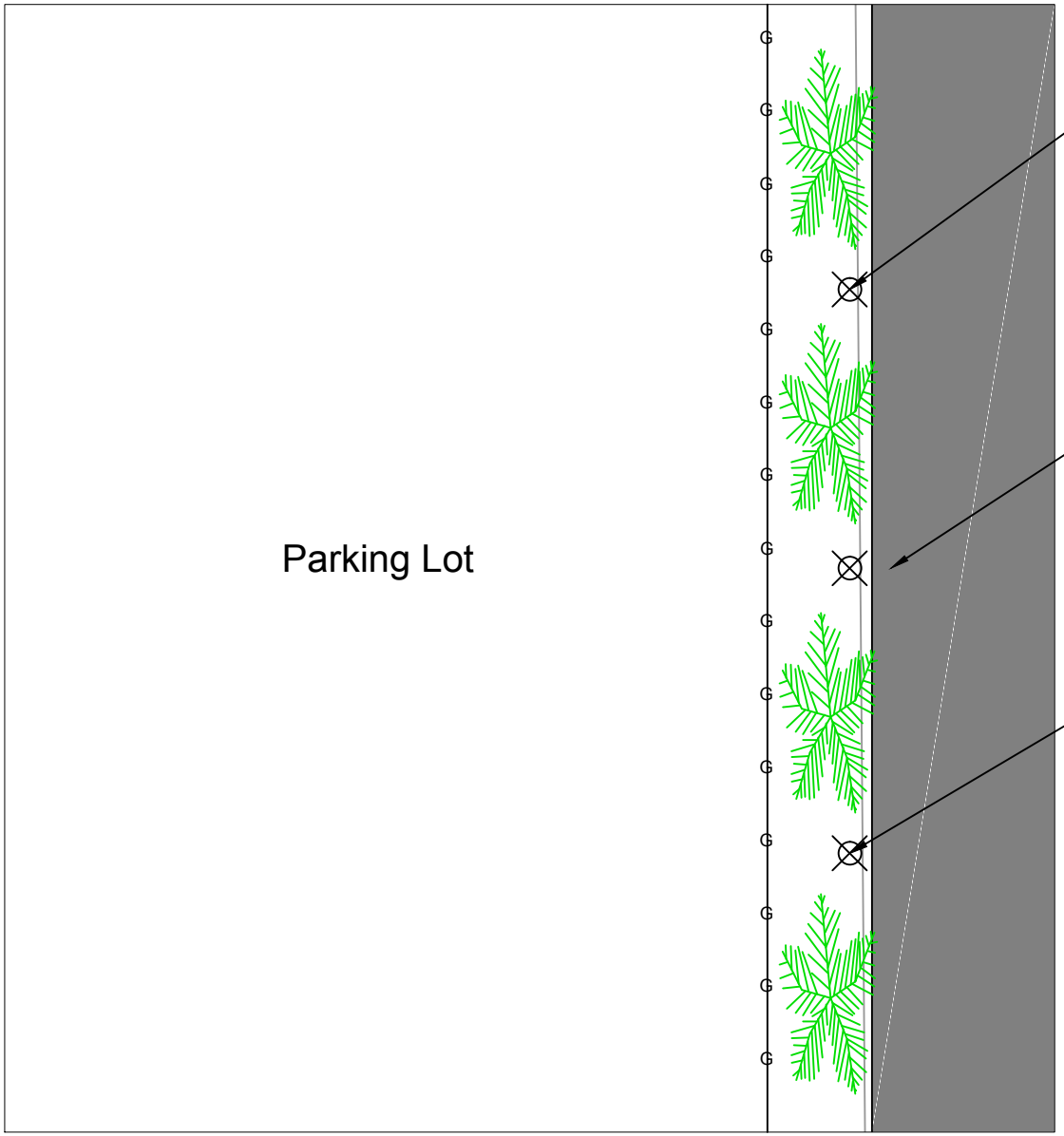
Figure 6
SB061 Step - out Sampling Locations

Pro ect No
400 36

August 201



Depth	Pb
0-	N-A-2-0
1-	3-64
2-	--

Depth	Pb
0-	**149**
1-	-9
2-	--

Depth	Pb
0-	11-1
1-	-3-
2-	--

Legend

Building E-terior Samples

Soil Boring I-

Gas Line

Bushes/Trees

- All lead (Pb) concentrations reported in milligrams per kilogram (mg/kg)-
- Bolded results indicate concentrations e-ceeding regulatory limits-
- -epth is reported in feet below ground surface (ft-bgs)-

N

0 - 10 Feet

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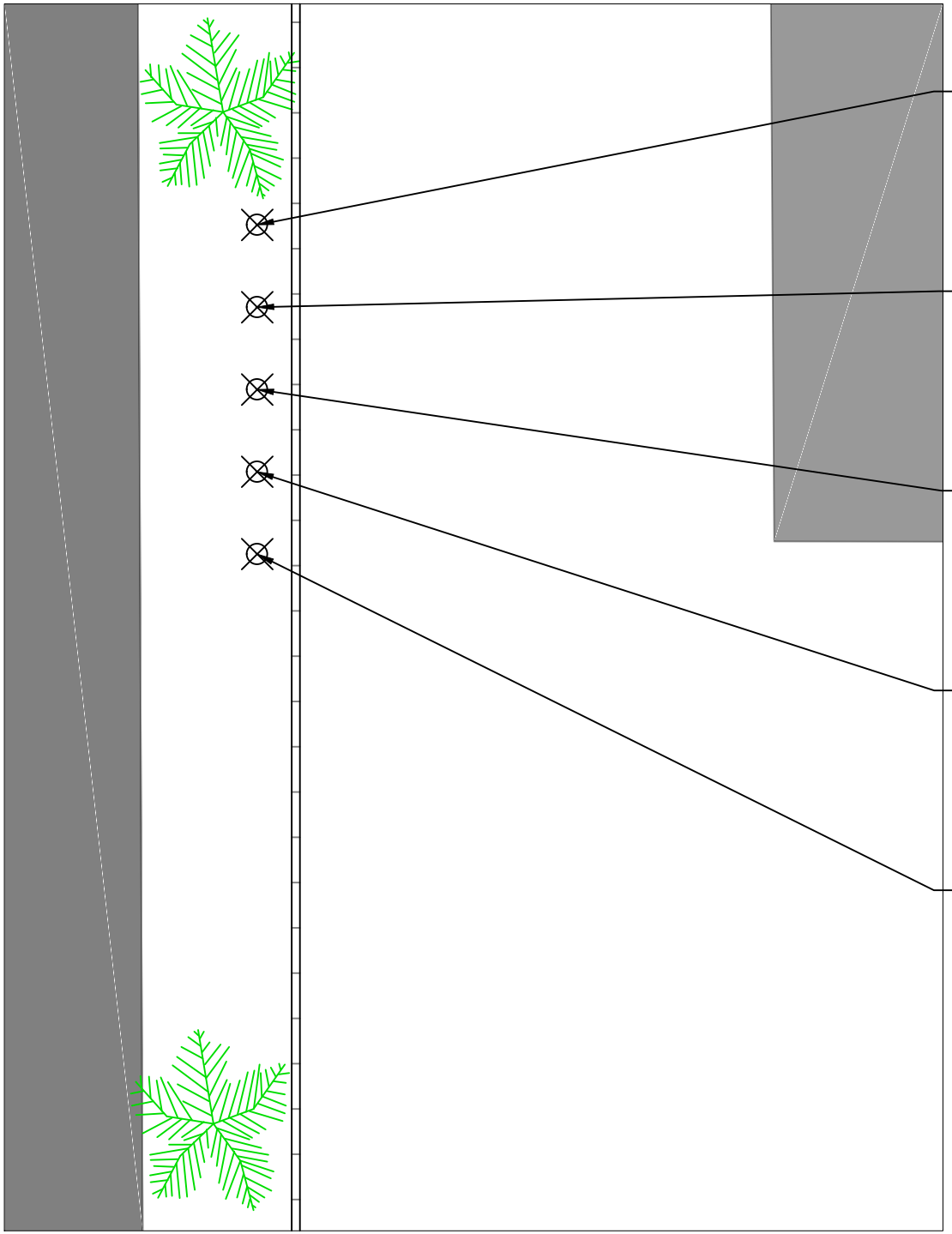
Figure -
SB06- Step - out Sampling Locations

Pro-ect No-
400--36

August 201-



SB06-S3

Depth	Pb
0-1	1,[illegible]
1-2	3,[illegible]9
2-3	--

SB06-S1

Depth	Pb
0-1	12,3
1-2	2,9[illegible]
2-3	--

SB06-

Depth	Pb
0-1	**207**
1-2	14,6
2-3	--

SB06-S2

Depth	Pb
0-1	14,6
1-2	[illegible]1,4
2-3	--

SB06-S4

Depth	Pb
0-1	**176**
1-2	[illegible],9[illegible]
2-3	--

Legend

Building E[illegible]terior Samples

Soil Boring l[illegible]

Curb

Bushes/Trees

- All lead (Pb) concentrations reported in milligrams per kilogram (mg/kg)[illegible]
- Bolded results indicate concentrations e[illegible]ceeding regulatory limits[illegible]
- [illegible]epth is reported in feet below ground surface (ft[illegible]bgs)[illegible]

N

0 [illegible] 10 Feet

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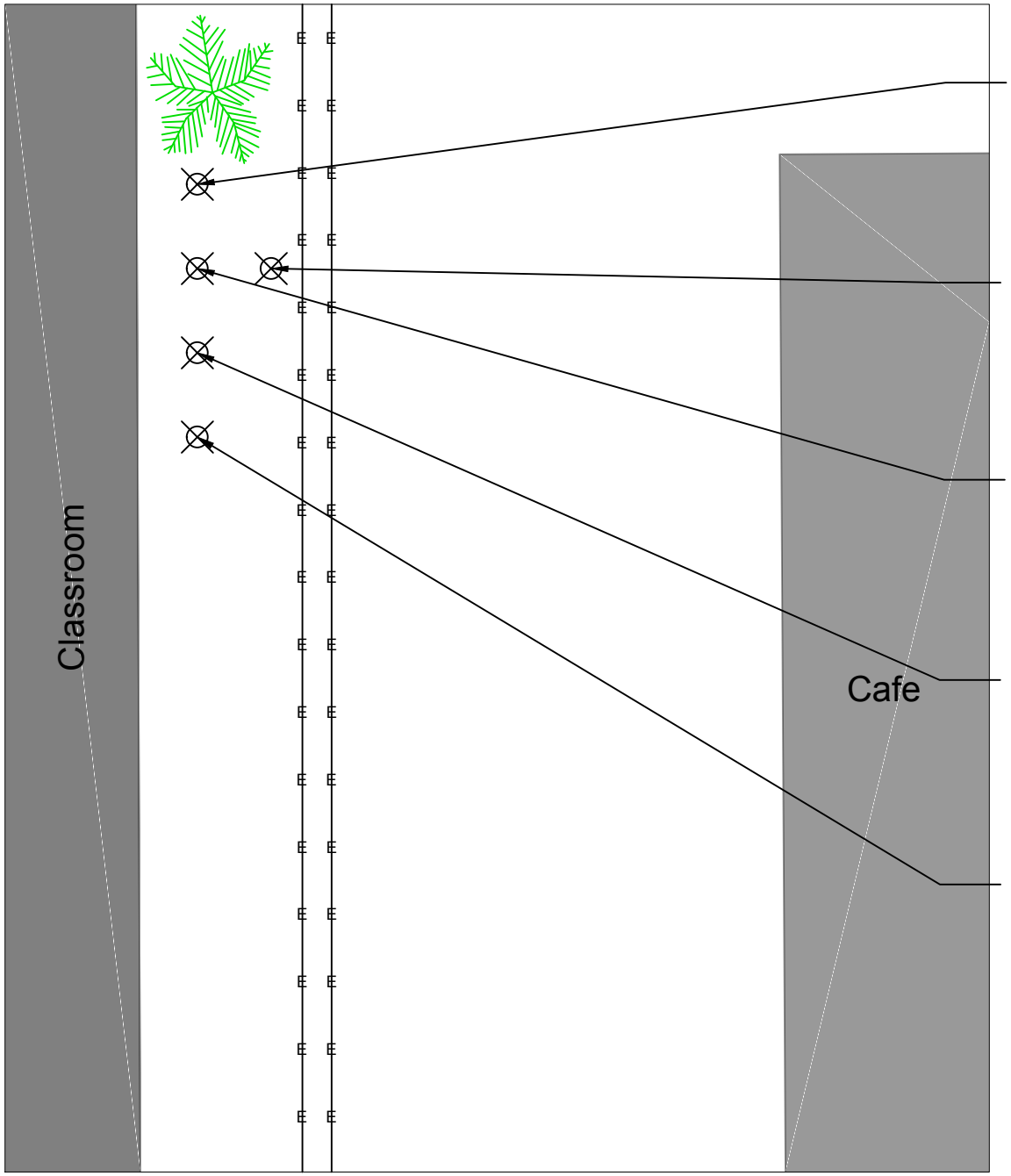
Los Angeles[illegible]CA 91601

Figure [illegible]
SB06[illegible]Step - out Sampling Locations

Pro[illegible]ect No[illegible]
400[illegible]36

August 201[illegible]



SB06□S1

Depth	Pb
0□□	60
1□□	N□□2□0
2□□	--

SB06□S2

Depth	Pb
0□□	N□□2□0
1□□	N□□2□0
2□□	--

SB06□

Depth	Pb
0□□	**211**
1□□	□0□□
2□□	--

SB06□S3

Depth	Pb
0□□	N□□2□0
1□□	N□□2□0
2□□	--

SB06□S4

Depth	Pb
0□□	N□□2□0
1□□	N□□2□0
2□□	--

Legend

Building E□terior Samples

Soil Boring I□

Electrical Line

Bushes/Trees

- All lead (Pb) concentrations reported in milligrams per kilogram (mg/kg)□
- Bolded results indicate concentrations e□ceeding regulatory limits□
- □epth is reported in feet below ground surface (ft□bgs)□

N

0 □ 10 Feet

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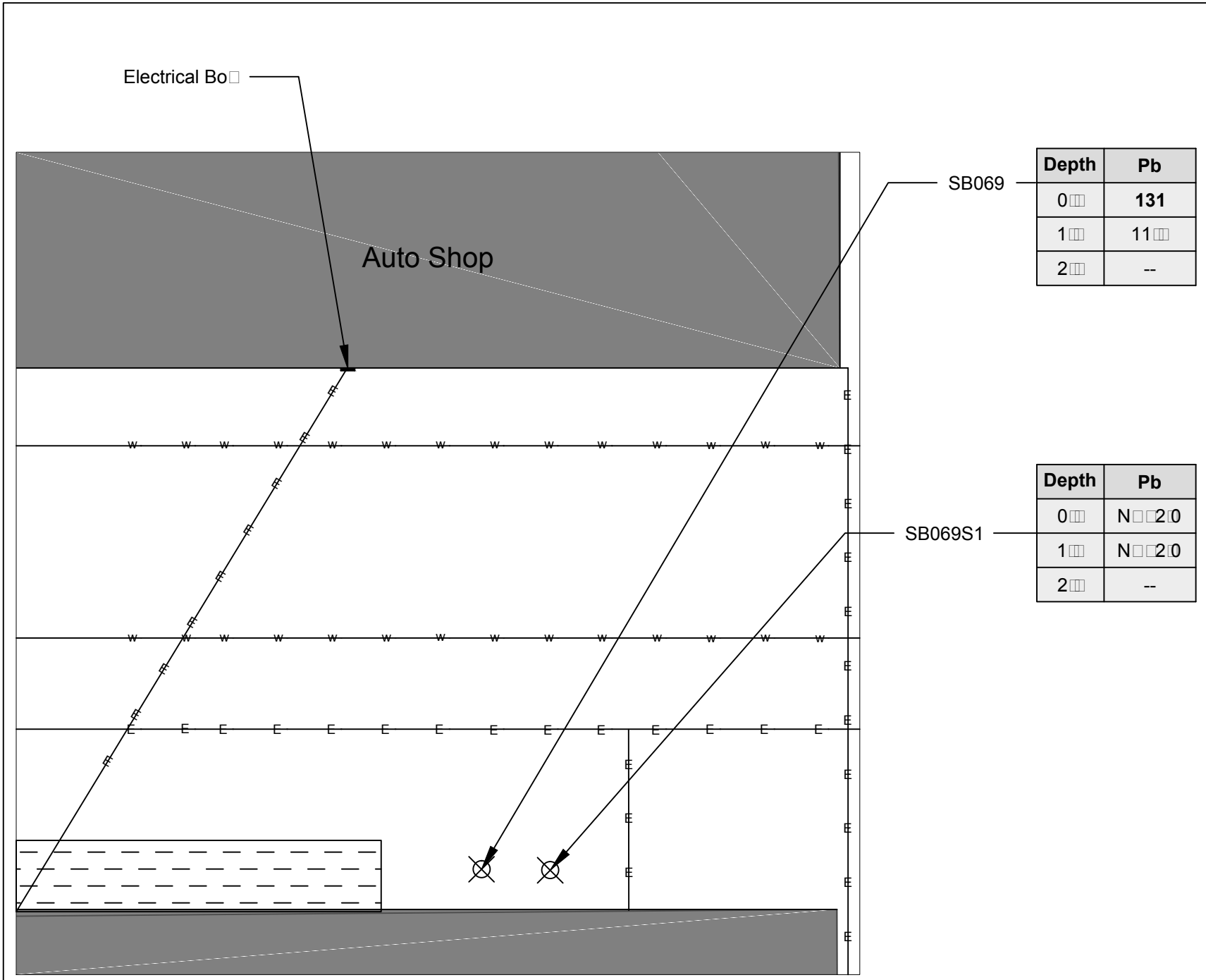
Figure 9
SB06□ Step - out Sampling Locations

Pro□ect No□ 400□□36

August 201□



Depth	Pb
0	**131**
1	11
2	--

Depth	Pb
0	N 2 0
1	N 2 0
2	--

Legend

Building E terior Samples

Soil Boring I

Electrical Line

ater Line

Sidewalk

- All lead (Pb) concentrations reported in milligrams per kilogram (mg/kg)
- Bolded results indicate concentrations e ceeding regulatory limits
- epth is reported in feet below ground surface (ft bgs)

N

0 10 Feet

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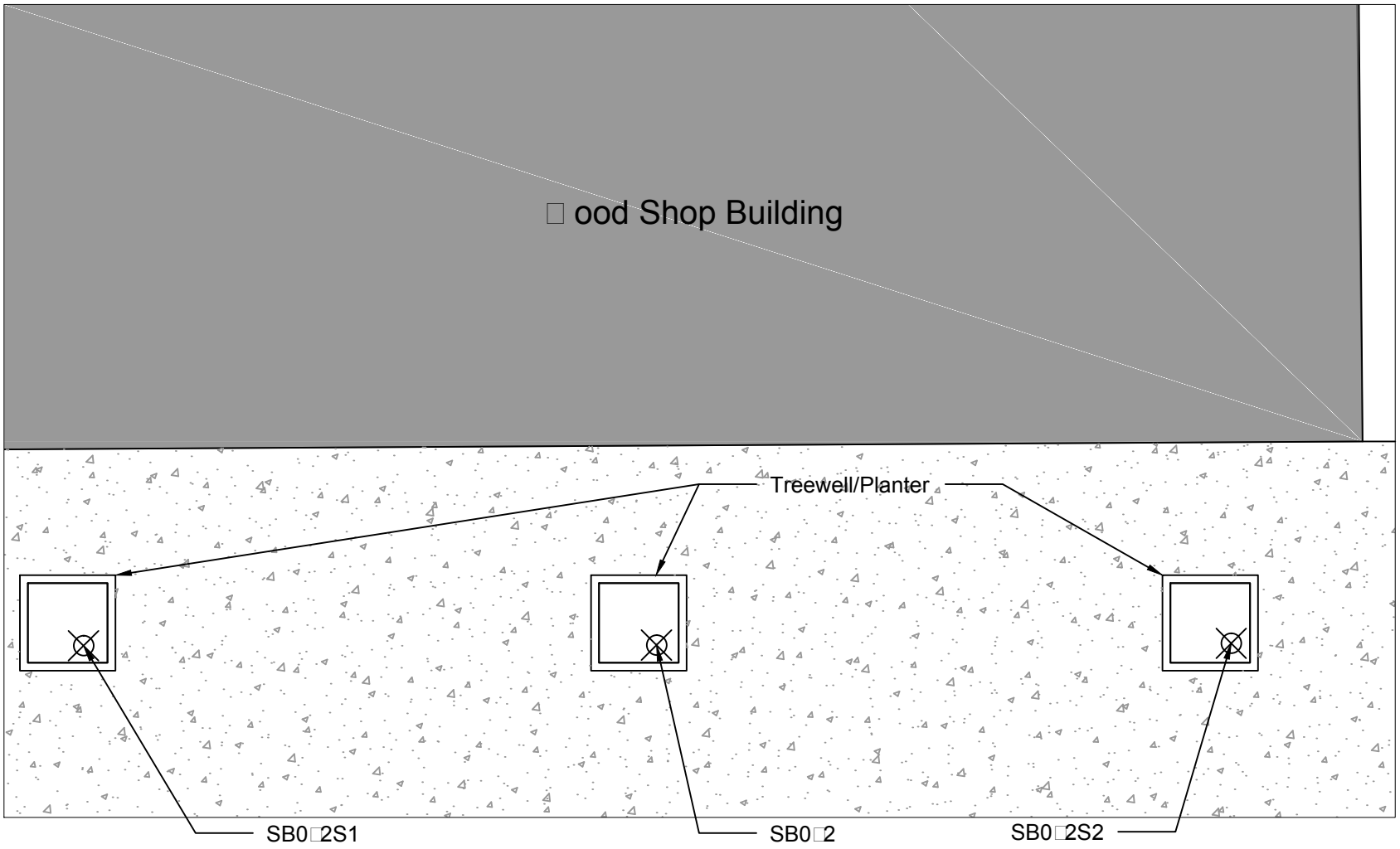
Figure 10
SB069 Step - out Sampling Locations

Pro ect No
400 36

August 201



Legend

Building E□terior Samples

Soil Boring I□

Concrete Paved Courtyard

N

0 □ 10 Feet

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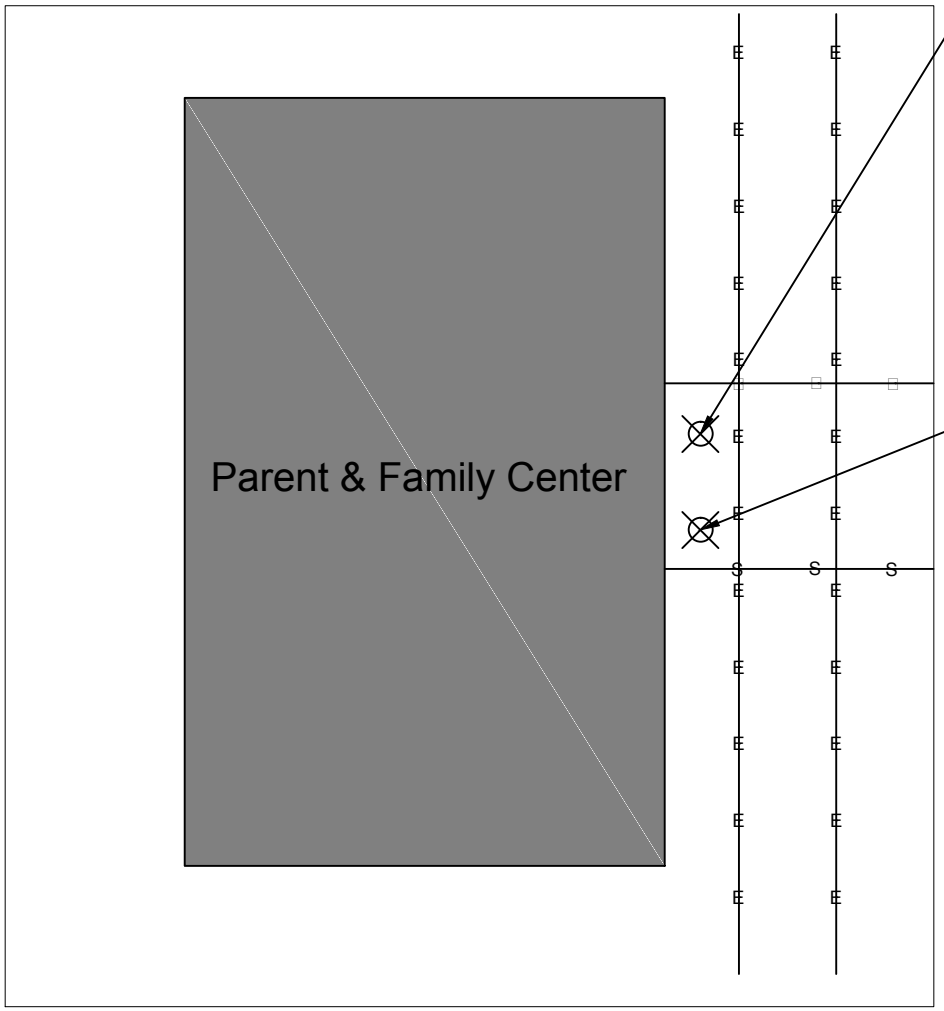
Figure 11
SB0□2 Step - out Sampling Locations

Pro□ect No□
400□□36

August 201□



Depth	Pb
0□□	N□□2□0
1□□	N□□2□0
2□□	N□□2□0

Depth	Pb
0□□	**81.4**
1□□	**155**
2□□	□1□1

Legend

Building E□terior Samples

Soil Boring l□

Electrical Line

□ ater Line

Sewer Line

- All lead (Pb) concentrations reported in milligrams per kilogram (mg/kg)
- Bolded results indicate concentrations e□ceeding regulatory limits□
- □epth is reported in feet below ground surface (ft□bgs)□

N

0 □ 10 Feet

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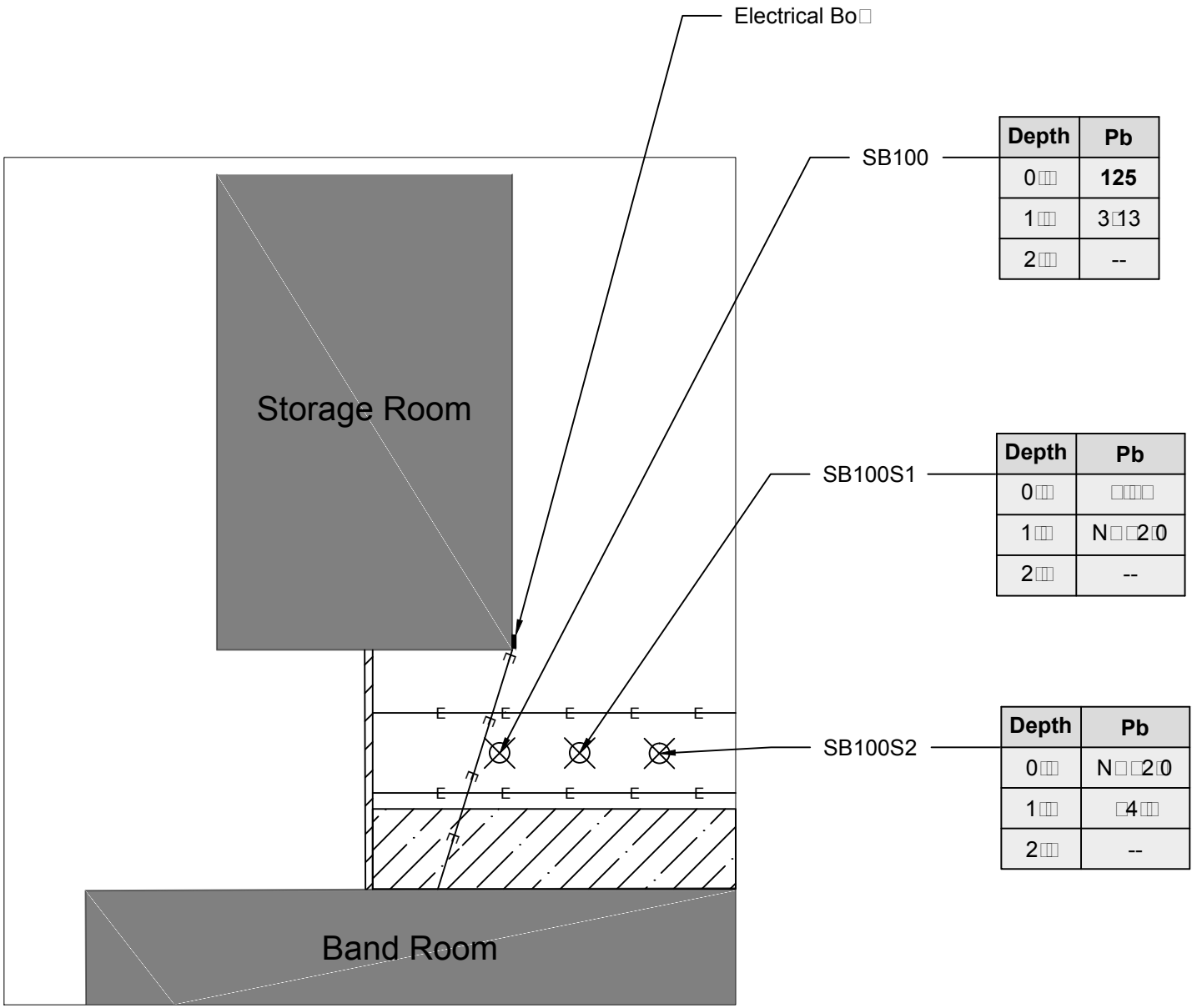
Figure 12
SB094 Step - out Sampling Locations

Pro□ect No□ 400□□36

August 201□



Legend

Building E terior Samples

Soil Boring I

Fence

Cement Swale / ater Line

Electrical Line

- All lead (Pb) concentrations reported in milligrams per kilogram (mg/kg)
- Bolded results indicate concentrations e ceeding regulatory limits
- epth is reported in feet below ground surface (ft bgs)

N

0 10 Feet

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Figure 13
SB100 Step - out Sampling Locations

Pro ect No
400 36

August 201

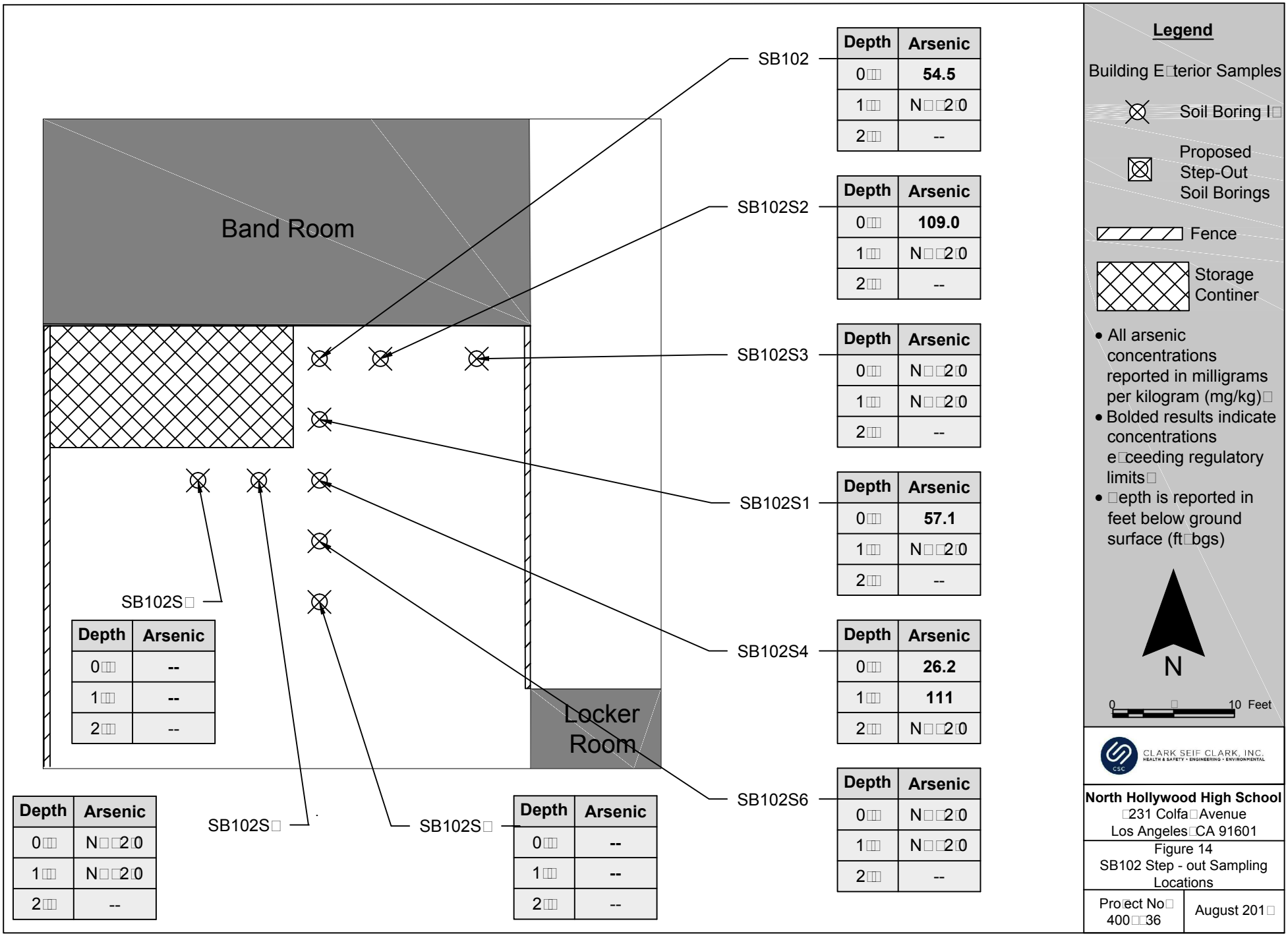
Band Room
Locker Room
SB102
SB102S2
SB102S3
SB102S1
SB102S4
SB102S6
SB102S□
SB102S□
SB102S□
Depth | Arsenic
0□□ | 54.5
1□□ | N□□2□0
2□□ | --
Depth | Arsenic
0□□ | 109.0
1□□ | N□□2□0
2□□ | --
Depth | Arsenic
0□□ | N□□2□0
1□□ | N□□2□0
2□□ | --
Depth | Arsenic
0□□ | 57.1
1□□ | N□□2□0
2□□ | --
Depth | Arsenic
0□□ | 26.2
1□□ | 111
2□□ | N□□2□0
Depth | Arsenic
0□□ | N□□2□0
1□□ | N□□2□0
2□□ | --
Depth | Arsenic
0□□ | --
1□□ | --
2□□ | --
Depth | Arsenic
0□□ | N□□2□0
1□□ | N□□2□0
2□□ | --
Depth | Arsenic
0□□ | --
1□□ | --
2□□ | --
Legend
Building E□terior Samples
Soil Boring I□
Proposed Step-Out Soil Borings
Fence
Storage Continer
• All arsenic concentrations reported in milligrams per kilogram (mg/kg)□
• Bolded results indicate concentrations e□ceeding regulatory limits□
• □epth is reported in feet below ground surface (ft□bgs)
N
0 □ 10 Feet
CLARK SEIF CLARK, INC.
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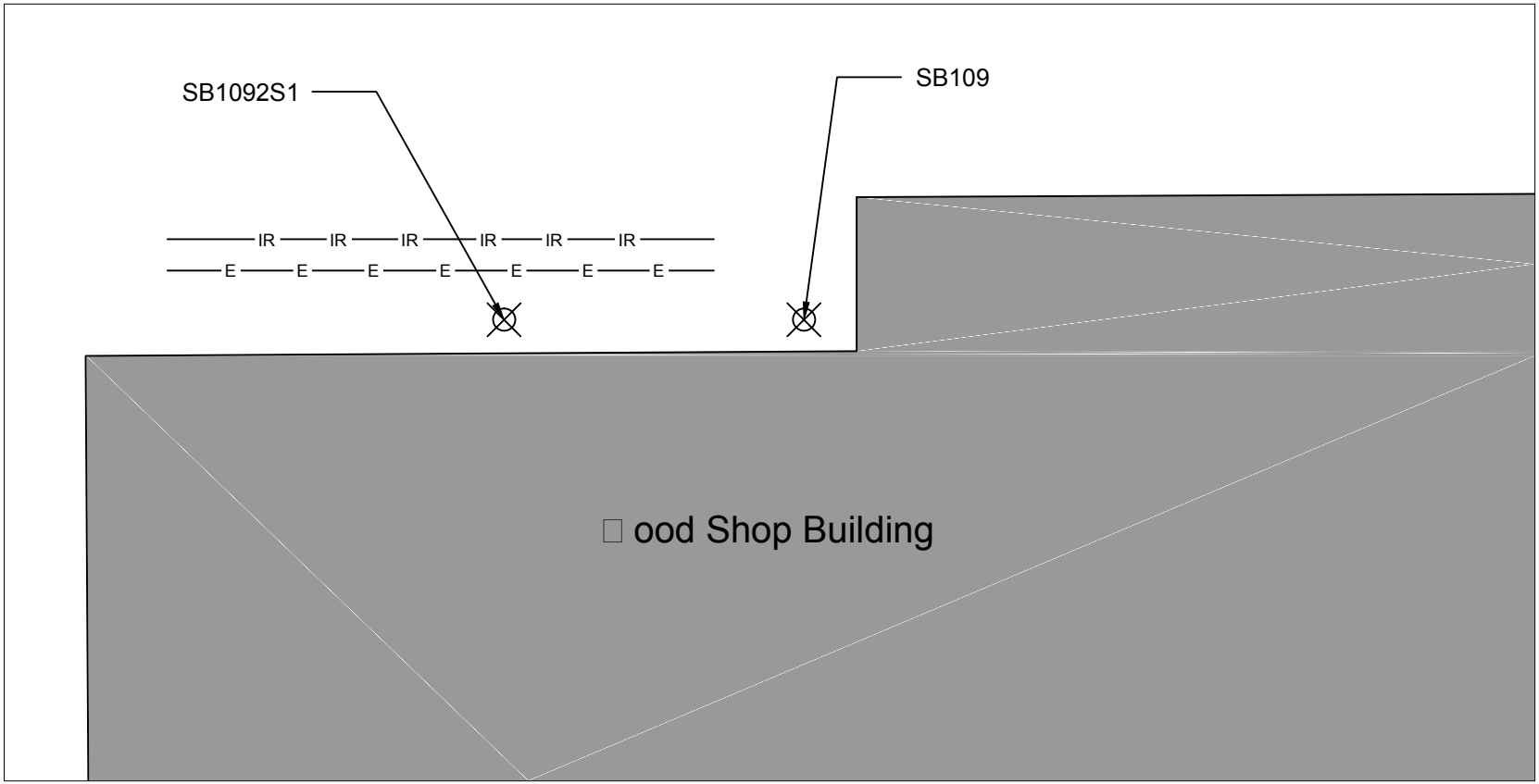
Figure 14
SB102 Step - out Sampling Locations
Pro□ect No□
400□□36
August 201□



Legend

Building E terior Samples

Soil Boring I

E E Electrical Line

IR IR Irrigation Line

N

0 10 Feet

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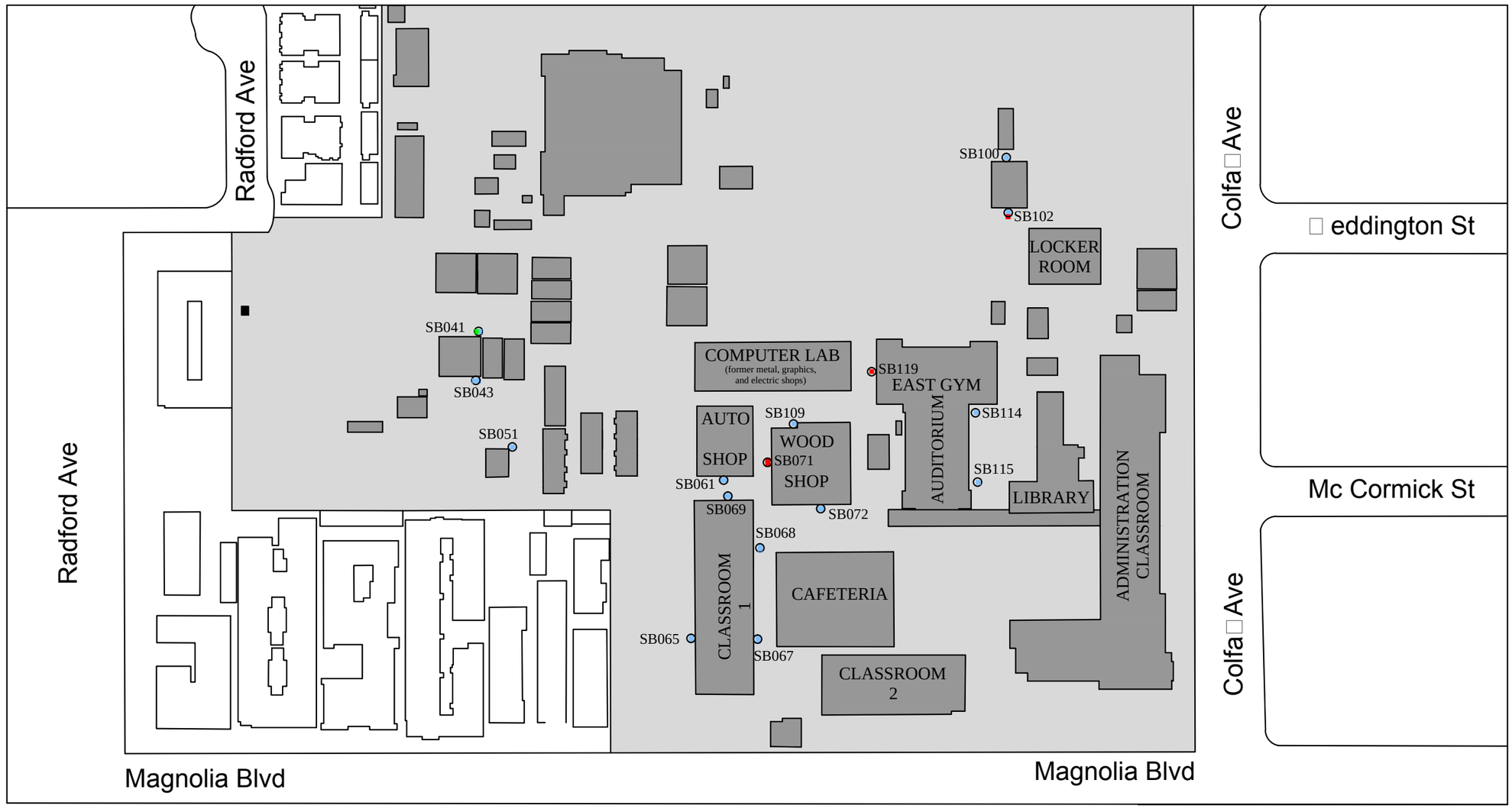
Figure 1
SB109 Step - out Sampling Locations

Pro ect No
400 36

August 201



Legend

Building E□terior Samples

Soil Borings

1□□□epth E□cavation

2□□□epth E□cavation

3□□epth E□cavation

N

0 □0 140□

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Figure 16
Remedial E□cavation Areas

Pro□ect No□
400□□36

August 201□

TABLES

TABLE 1
SUMMARY OF SOIL VAPOR ANALYTICAL DATA
NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	Volatile Organic Compounds by EPA Method 8260
		micrograms per liter (ug/L)
November 19, 2017	SV1-5	ND
	SV1-15	ND
	SV2-5	ND
	SV2-15	ND
	SV3-5	ND
	SV3-15	ND
	SV4-5	ND
	SV4-15	ND
	SV5-5	ND
	SV5-15	ND
	SV6-5	ND
	SV6-15	ND
	SV7-5	ND
	SV7-15	ND
November 20, 2017	SV8-5	ND
	SV8-15	ND
	SV9-5	ND
	SV9-15	ND
	SV10-5	ND
	SV10-15	ND
	SV11-5	ND
	SV11-15	ND
	SV12-5	ND
	SV12-15	ND
	SV13-5	ND
	SV13-15	ND
November 19, 2017	SV14-5	ND
	SV14-15	ND
November 20, 2017	SV15-5	ND
	SV15-15	ND

Notes:
ND = Not detected

TABLE 2

SUMMARY OF TPH, VOCs, PCBs, PAHs, AND SVOCs ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Date	Sample ID	Total Petroleum Hydrocarbons by EPA Method 8015M	Volatile Organic Compounds by EPA Method 8260B	Polychlorinated Biphenyls by EPA Method 8081	Poly-Aromatic Hydrocarbons by EPA Method 8270C	Semi-Volatile Organic Compounds by EPA Method 8070C
		mg/kg	micrograms per kilogram (ug/kg)			
November 19, 2016	SB001-10	ND	--	ND <50	--	--
	SB001-15	ND	--	ND <50	--	--
	SB001-20	--	--	--	--	--
December 10, 2016	SB002-10	ND	--	ND <50	--	--
	SB002-15	--	--	--	--	--
	SB002-20	--	--	--	--	--
December 10, 2016	SB003-10	ND	--	ND <50	--	--
	SB003-15	--	--	--	--	--
	SB003-20	--	--	--	--	--
December 10, 2016	SB004-10	ND	--	ND <50	--	--
	SB004-15	--	--	--	--	--
	SB004-20	--	--	--	--	--
December 10, 2016	SB005-10	ND	--	ND <50	--	--
	SB005-15	--	--	--	--	--
	SB005-20	--	--	--	--	--
December 10, 2016	SB006-10	ND	--	ND <50	--	
	SB006-15	--	--	--	--	--
	SB006-20	--	--	--	--	--
December 10, 2016	SB007-10	ND	--	ND <50	--	--
	SB007-15	--	--	--	--	--
	SB007-20	--	--	--	--	--
December 10, 2016	SB008-4	ND	ND	ND <50	--	--
	SB008-8	ND	ND	ND <50	--	--
December 10, 2016	SB009-4	ND	ND	ND <50	--	--
	SB009-8	ND	ND	ND <50	--	--
November 19, 2016	SB010-10	ND	ND	--	--	--
	SB010-15	ND	ND	--	--	--
November 20, 2016	SB011-10	ND	ND	--	ND	--
	SB011-15	ND	ND	--	ND	--
November 20, 2016	SB012-10	ND	ND	--	ND	--
	SB012-15	ND	ND	--	ND	--
November 20, 2016	SB013-10	ND	ND	--	ND	--
	SB013-15	ND	ND	--	ND	--
December 3, 2016	SB014-10	ND	ND	--	ND	--
	SB014-15	ND	ND	--	ND	--
	SB014-15 Dup	ND	ND	--	ND	--
December 3, 2016	SB015-5	ND	ND	--	ND	--
	SB015-10	ND	ND	--	ND	--
	SB015-15	ND	ND	--	ND	--
	SB015-20	ND	ND	--	ND	--
	SB015-25	ND	ND	--	ND	--
	SB015-30	ND	ND	--	ND	--
	SB015-35	ND	ND	--	ND	--
	SB015-40	ND	ND	--	ND	--
December 3, 2016	SB016-5	ND	ND	--	ND	--
	SB016-10	ND	ND	--	ND	--
	SB016-15	ND	ND	--	ND	--
	SB016-15 Dup	ND	ND	--	ND	--
	SB016-20	ND	ND	--	ND	--
	SB016-25	ND	ND	--	ND	--
	SB016-30	ND	ND	--	ND	--
	SB016-35	ND	ND	--	ND	--
	SB016-40	ND	ND	--	ND	--

TABLE 2

SUMMARY OF TPH, VOCs, PCBs, PAHs, AND SVOCs ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Date	Sample ID	Total Petroleum Hydrocarbons by EPA Method 8015M	Volatile Organic Compounds by EPA Method 8260B	Polychlorinated Biphenyls by EPA Method 8081	Poly-Aromatic Hydrocarbons by EPA Method 8270C	Semi-Volatile Organic Compounds by EPA Method 8070C
		mg/kg	micrograms per kilogram (ug/kg)			
December 3, 2016	SB017-5	ND	ND	--	ND	--
	SB017-10	ND	ND	--	ND	--
	SB017-10 Dup	ND	ND	--	ND	--
	SB017-15	ND	ND	--	ND	--
	SB017-20	ND	ND	--	ND	--
	SB017-25	ND	ND	--	ND	--
	SB017-30	ND	ND	--	ND	--
	SB017-35	ND	ND	--	ND	--
	SB017-40	ND	ND	--	ND	--
December 10, 2016	SB018-5	ND	ND	--	ND	--
	SB018-10	ND	ND	--	ND	--
	SB018-15	ND	ND	--	ND	--
	SB018-20	ND	ND	--	ND	--
	SB018-25	ND	ND	--	ND	--
	SB018-30	ND	ND	--	ND	--
	SB018-35	ND	ND	--	ND	--
	SB018-40	ND	ND	--	ND	--
December 3, 2016	SB019-5	ND	ND	--	ND	--
	SB019-10	ND	ND	--	ND	--
	SB019-15	ND	ND	--	ND	--
	SB019-20	ND	ND	--	ND	--
	SB019-25	ND	ND	--	ND	--
	SB019-30	ND	ND	--	ND	--
	SB019-30 Dup	ND	ND	--	ND	--
	SB019-35	ND	ND	--	ND	--
	SB019-40	ND	ND	--	ND	--
December 3, 2016	SB020-5	ND	ND	--	ND	--
	SB020-10	ND	ND	--	ND	--
	SB020-15	ND	ND	--	ND	--
	SB020-20	ND	ND	--	ND	--
	SB020-25	ND	ND	--	ND	--
	SB020-30	ND	ND	--	ND	--
	SB020-35	ND	ND	--	ND	--
	SB020-40	ND	ND	--	ND	--
November 5, 2016	SB109-0.5	--	--	--	--	ND
	SB109-1.5	--	--	--	--	ND
	SB109-2.5	--	--	--	--	ND
December 10, 2016	SB110-5	ND	ND	--	ND	--
	SB110-10	ND	ND	--	ND	--
	SB110-15	ND	ND	--	ND	--
	SB110-20	ND	ND	--	ND	--
	SB110-25	ND	ND	--	ND	--
	SB110-30	ND	ND	--	ND	--
	SB110-35	ND	ND	--	ND	--
	SB110-40	ND	ND	--	ND	--

Notes:

ND = Not detected

-- = Not analyzed

TABLE 3

SUMMARY OF ORGANOCHLORINE PESTICIDES ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	Chlordane (alpha)	Chlordane (gamma)	Chlordane (Total)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endrin	Endrin aldehyde	Heptachlor epoxide	Dilution Factor
		micrograms per kilogram (ug/kg)										
Screening Levels		440	440	440	2,300	2,000	1,900	34	19,000	--	70	
November 5, 2016	SB021-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB021-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB021-2.5	--	--	0	--	--	--	--	--	--	--	--
November 5, 2016	SB022-0.5	ND <4.0	ND <4.0	ND <4.0	ND <4.0	58.8	20.2	ND <4.0	16.7	ND <4.0	ND <4.0	2
	SB022-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB022-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB023-0.5	ND <4.0	ND <4.0	ND <4.0	ND <4.0	7.56	14.7	ND <4.0	8.13	ND <4.0	ND <4.0	2
	SB023-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB023-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB024-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB024-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB024-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB025-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB025-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB025-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB026-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1.41 J	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB026-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB026-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB027-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	4.51	7.61	ND <2.0	2.6	ND <2.0	ND <2.0	1
	SB027-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB027-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB028-0.5	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	2
	SB028-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB028-2.5	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB029-0.5	--	--	--	--	--	--	--	--	--	--	--
	SB029-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB029-2.5	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB030-0.5	2.07	1.59 J	3.66	ND <2.0	9.91	5.97	4.13	ND <2.0	ND <2.0	ND <2.0	1
	SB030-1.5	--	--	--	--	--	--		--	--	--	--
	SB030-2.5	--	--	--	--	--	--		--	--	--	--
	SB030-0.5 Dup	6.21 J	ND <10	10.6	ND <10	6.72 J	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB030-1.5 Dup	--	--	--	--	--	--	--	--	--	--	--
	SB030-2.5 Dup	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB031-0.5	4.03	2.95	6.98	ND <2.0	8.34	14.1	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB031-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB031-2.5	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB032-0.5	ND <2.0	ND <2.0	ND <2.0	ND	1.01 J	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB032-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB032-2.5	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB033-0.5	6.76	4.62	11.4	ND <2.0	4.42	2.63	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB033-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB033-2.5	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB034-0.5	ND <4.0	ND <4.0	3.59 J	ND <4.0	3.44 J	3.18 J	ND <4.0	ND <4.0	ND <4.0	ND <4.0	2
	SB034-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB034-2.5	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB035-0.5	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	10
	SB035-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB035-2.5	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB036-0.5	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	10
	SB036-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB036-2.5	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB037-0.5	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	10
	SB037-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB037-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB038-0.5	ND <2.0	1.38 J	2.09	ND <2.0	1.47 J	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB038-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB038-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB039-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB039-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB039-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB040-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB040-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB040-2.5	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB041-0.5	10.1	8.03	18.1	3.36 J	30	52.4	ND <4.0	ND <4.0	ND <4.0	ND <4.0	2
	SB041-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB041-2.5	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB042-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB042-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB042-2.5	--	--	--	--	--	--	--	--	--	--	--
November 19, 2016	SB043-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB043-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB043-2.5	--	--	--	--	--	--	--	--	--	--	--
	SB043-0.5 Dup	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB043-1.5 Dup	--	--	--	--	--	--	--	--	--	--	--
	SB043-2.5 Dup	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB044-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB044-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB044-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB045-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB045-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB045-2.5	--	--	--	--	--	--	--	--	--	--	--
November 19, 2016	SB046-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB046-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB046-2.5	--	--	--	--	--	--	--	--	--	--	--
November 19, 2016	SB047-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	6.85	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB047-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB047-2.5	--	--	--	--	--	--	--	--	--	--	--
November 19, 2016	SB048-0.5	29.8	30.3	60.1	ND <2.0	ND <2.0	1.84 J	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB048-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB048-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB049-0.5	ND <2.0	ND <2.0	ND <2.0	2.24	16.8	16.4	ND <2.0	2.63	ND <2.0	ND <2.0	1
	SB049-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB049-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB050-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB050-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB050-2.5	--	--	--	--	--	--	--	--	--	--	--

TABLE 3

SUMMARY OF ORGANOCHLORINE PESTICIDES ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	Chlordane (alpha)	Chlordane (gamma)	Chlordane (Total)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endrin	Endrin aldehyde	Heptachlor epoxide	Dilution Factor
		micrograms per kilogram (ug/kg)										
Screening Levels		440	440	440	2,300	2,000	1,900	34	19,000	--	70	
November 19, 2016	SB051-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	13.2	10.2	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB051-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB051-2.5	--	--	--	--	--	--	--	--	--	--	--
November 19, 2016	SB052-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	4.69	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB052-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB052-2.5	--	--	--	--	--	--	--	--	--	--	--
November 19, 2016	SB053-0.5	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB053-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB053-2.5	--	--	--	--	--	--	--	--	--	--	--
	SB053-0.5 Dup	ND <2.0	ND <2.0	ND <2.0	ND <2.0	4.69	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB053-1.5 Dup	--	--	--	--	--	--	--	--	--	--	--
	SB053-2.5 Dup	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB054-0.5	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	2
	SB0541-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB054-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB055-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB055-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB055-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB056-0.5	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB056-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB056-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB057-0.5	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	2
	SB057-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB057-2.5	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB058-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB058-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB058-2.5	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB059-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB059-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB059-2.5	--	--	--	--	--	--	--	--	--	--	--
November 20, 2016	SB060-0.5	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB060-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB060-2.5	--	--	--	--	--	--	--	--	--	--	--
November 19, 2016	SB061-0.5	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	2.56 J	ND <4.0	ND <4.0	ND <4.0	ND <4.0	2
	SB061-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB061-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB062-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	7.11	6.8	ND <2.0	3.66	ND <2.0	ND <2.0	1
	SB062-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB062-2.5	--	--	--	--	--	--	--	--	--	--	--
November 19, 2016	SB063-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB063-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB063-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB064-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB064-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB064-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB065-0.5	5.13	5.2	10.3	ND <2.0	ND <2.0	5.82	1.45 J	ND <2.0	ND <2.0	ND <2.0	1
	SB065-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB065-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB066-0.5	2.18	1.88 J	4.06	ND <2.0	ND <2.0	8.47	2.1	ND <2.0	ND <2.0	ND <2.0	1
	SB066-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB066-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB067-0.5	39.4	55.5	94.9	33.3	1,140	22.5	ND <4.0	ND <4.0	ND <4.0	ND <4.0	2
	SB067-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB067-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB068-0.5	53.9	52.6	107	7.86	367	30.9	6.27	7.51	1.07 J	1.95 J	1
	SB068-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB068-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB069-0.5	16.4	26.4	42.8	26.6	535	146	5.6	48.8	1.81 J	ND <2.0	1
	SB069-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB069-2.5	--	--	--	--	--	--	--	--	--	--	--
November 19, 2016	SB070-0.5	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB070-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB070-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB071-0.5	ND <2.0	1.07 J	1.82 J	ND <2.0	2.17	4.40	1.97 J	ND <2.0	ND <2.0	ND <2.0	1
	SB071-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB071-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB072-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB072-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB072-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB073-0.5	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	2
	SB073-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB073-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB074-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB074-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB074-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB075-0.5	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	2
	SB075-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB075-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB076-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB076-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB076-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB077-0.5	ND <10	ND <10	8.62 J	ND <10	6.52 J	8.72 J	ND <10	ND <10	ND <10	ND <10	5
	SB077-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB077-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB078-0.5	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB078-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB078-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB079-0.5	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	2
	SB079-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB079-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB080-0.5	6.31	5.11	11.4	ND <4.0	ND <4.0	2.50 J	ND <4.0	ND <4.0	ND <4.0	ND <4.0	2
	SB080-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB080-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB081-0.5	ND <10.0	ND <10.0	ND <10.0	ND <10.0	ND <10.0	ND <10.0	ND <10.0	ND <10.0	ND <10.0	ND <10.0	5
	SB081-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB081-2.5	--	--	--	--	--	--	--	--	--	--	--

TABLE 3

SUMMARY OF ORGANOCHLORINE PESTICIDES ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	Chlordane (alpha)	Chlordane (gamma)	Chlordane (Total)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endrin	Endrin aldehyde	Heptachlor epoxide	Dilution Factor
		micrograms per kilogram (ug/kg)										
Screening Levels		440	440	440	2,300	2,000	1,900	34	19,000	--	70	
November 6, 2016	SB082-0.5	4.09	5.35	9.44	ND <4.0	5.79	ND <4.0	2.53 J	ND <4.0	ND <4.0	ND <4.0	2
	SB082-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB082-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB083-0.5	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB083-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB083-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB084-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB084-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB084-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB085-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB085-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB085-2.5	--	--	--	--	--	--	--	--	--	--	--
November 6, 2016	SB086-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB086-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB086-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB087-0.5	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	10
	SB087-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB087-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB088-0.5	59.7	71.2	131	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB088-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB088-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB089-0.5	ND <10	ND <10	ND <10	12.6 J	ND	17.4 J	10.1 J	ND <10	ND <10	ND <10	5
	SB089-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB089-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB090-0.5	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB090-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB090-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB091-0.5	1.82 J	2.36	4.18	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB091-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB091-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB092-0.5	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	ND <4.0	2
	SB092-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB092-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB093-0.5	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB093-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB093-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB094-0.5	45.5	52.9	98.4	ND <20	ND <20	16.4 J	ND <20	ND <20	ND <20	ND <20	10
	SB094-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB094-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB095-0.5	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB095-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB095-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB096-0.5	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	10
	SB096-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB096-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB097-0.5	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	10
	SB097-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB097-2.5	--	--	--	--	--	--	--	--	--	--	--
November 19, 2016	SB098-0.5	8.31 J	9.73 J	18	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB098-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB098-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB099-0.5	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	10
	SB099-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB099-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB100-0.5	8.46	8.81	16.9	1.14 J	8.08	8.2	1.62 J	1.89 J	1.66 J	ND <2.0	1
	SB100-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB100-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB101-0.5	ND <2.0	ND <2.0	ND <2.0	7.99	213	5.41	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB101-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB101-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB102-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB102-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB102-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB103-0.5	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	ND <20	10
	SB103-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB103-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB104-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB104-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB104-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB105-0.5	116	116	232	2.29	3.12	4.87	3.42	ND <2.0	ND <2.0	17.5	17.5
	SB105-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB105-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB106-0.5	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB106-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB106-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB107-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	6.82	1.44 J	3.89	ND <2.0	ND <2.0	ND <2.0	1
	SB107-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB107-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB108-0.5	4.03	3.68	7.71	ND <2.0	34.8	1.79 J	2.14	ND <2.0	ND <2.0	ND <2.0	1
	SB108-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB108-2.5	--	--	--	--	--	--	--	--	--	--	--
November 5, 2016	SB109-0.5	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	ND <10	5
	SB109-1.5	--	--	--	--	--	--	--	--	--	--	--
	SB109-2.5	--	--	--	--	--	--	--	--	--	--	--
July 20, 2017	SB111-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB111-1.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB111-2.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
July 20, 2017	SB112-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB112-1.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB112-2.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
July 20, 2017	SB113-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB113-1.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB113-2.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
July 20, 2017	SB114-0.5	9.13	14.3	23.4	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB114-1.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB114-2.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1

TABLE 3

SUMMARY OF ORGANOCHLORINE PESTICIDES ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	Chlordane (alpha)	Chlordane (gamma)	Chlordane (Total)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Dieldrin	Endrin	Endrin aldehyde	Heptachlor epoxide	Dilution Factor
		micrograms per kilogram (ug/kg)										
Screening Levels		440	440	440	2,300	2,000	1,900	34	19,000	--	70	
July 20, 2017	SB115-0.5	2.66	3.62	6.28	2.93	3.42	28.6	1.08 J	ND <2.0	ND <2.0	ND <2.0	1
	SB115-1.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB115-2.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
July 20, 2017	SB116-0.5	17.8	21.2	39	ND <2.0	2.64	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB116-1.5	2.11	2.65	4.76	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB116-2.5	3.96	5.78	9.74	ND <2.0	1.37 J	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
July 20, 2017	SB117-0.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB117-1.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB117-2.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
July 20, 2017	SB118-0.5	1.08 J	1.48 J	2.56	ND <2.0	1.71 J	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB118-1.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB118-2.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
July 20, 2017	SB119-0.5	1.20 J	1.86 J	3.06	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB119-1.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1
	SB119-2.5	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	ND <2.0	1

Notes:

ND = Not Detected

-- = Not Analyzed

Dup = duplicate

Detection Limit = Equivalent to Practical Quantization Limit

TABLE 4

SUMMARY OF ARSENIC, LEAD AND PCBs ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	EPA Method 6010B		Dilution Factor	Poly-Chlorinated Biphenols by EPA Method 8082	Dilution Factor
		Arsenic	Lead			
		milligrams per kilogram (mg/kg)			ug/kg	
Detection Limit		2.0	2.0		--	
Site Screening Levels		12*	80**		--	
November 5, 2016	SB021-0.5	ND <2.0	ND <2.0	1	--	--
	SB021-1.5	--	--	--	--	--
	SB021-2.5	--	--	--	--	--
November 5, 2016	SB022-0.5	ND <2.0	ND <2.0	1	ND <100	2
	SB022-1.5	--	--	--	--	--
	SB022-2.5	--	--	--	--	--
November 6, 2016	SB023-0.5	ND <2.0	ND <2.0	1	--	--
	SB023-1.5	--	--	--	--	--
	SB023-2.5	--	--	--	--	--
November 6, 2016	SB024-0.5	ND <2.0	ND <2.0	1	--	--
	SB024-1.5	--	--	--	--	--
	SB024-2.5	--	--	--	--	--
November 6, 2016	SB025-0.5	ND <2.0	ND <2.0	1	--	--
	SB025-1.5	--	--	--	--	--
	SB025-2.5	--	--	--	--	--
November 6, 2016	SB026-0.5	ND <2.0	7.67	1	--	--
	SB026-1.5	--	--	--	--	--
	SB026-2.5	--	--	--	--	--
November 6, 2016	SB027-0.5	ND <2.0	11.3	1	--	--
	SB027-1.5	--	--	--	--	--
	SB027-2.5	--	--	--	--	--
November 6, 2016	SB028-0.5	ND <2.0	2.09	1	--	--
	SB028-1.5	--	--	--	--	--
	SB028-2.5	--	--	--	--	--
November 20, 2016	SB029-0.5	ND <2.0	29.7	1	--	--
	SB029-1.5	--	--	--	--	--
	SB029-2.5	--	--	--	--	--
November 20, 2016	SB030-0.5	ND <2.0	3.59	1	--	--
	SB030-1.5	--	--	--	--	--
	SB030-2.5	--	--	--	--	--
	SB030-0.5 Dup	ND <2.0	3.3	--	--	--
	SB030-1.5 Dup	--	--	--	--	--
	SB030-2.5 Dup	--	--	--	--	--
November 20, 2016	SB031-0.5	ND <2.0	ND <2.0	1	ND <100	2
	SB031-1.5	--	--	--	--	--
	SB031-2.5	--	--	--	--	--
November 20, 2016	SB032-0.5	ND <2.0	ND <2.0	1	--	--
	SB032-1.5	--	--	--	--	--
	SB032-2.5	--	--	--	--	--
November 20, 2016	SB033-0.5	ND <2.0	ND <2.0	1	--	--
	SB033-1.5	--	--	--	--	--
	SB033-2.5	--	--	--	--	--
November 20, 2016	SB034-0.5	ND <2.0	19.6	1	--	--
	SB034-1.5	--	--	--	--	--
	SB034-2.5	--	--	--	--	--
November 20, 2016	SB035-0.5	ND <2.0	9.07	1	--	--
	SB035-1.5	--	--	--	--	--
	SB035-2.5	--	--	--	--	--
November 20, 2016	SB036-0.5	ND <2.0	26.4	1	--	--
	SB036-1.5	--	--	--	--	--
	SB036-2.5	--	--	--	--	--
November 20, 2016	SB037-0.5	ND <2.0	18.6	1	--	--
	SB037-1.5	--	--	--	--	--
	SB037-2.5	--	--	--	--	--
November 5, 2016	SB038-0.5	ND <2.0	9.75	1	--	--
	SB038-1.5	--	--	--	--	--
	SB038-2.5	--	--	--	--	--
November 6, 2016	SB039-0.5	ND <2.0	2.3	1	--	--
	SB039-1.5	--	--	--	--	--
	SB039-2.5	--	--	--	--	--
November 6, 2016	SB040-0.5	ND <2.0	ND <2.0	1	--	--
	SB040-1.5	--	--	--	--	--
	SB040-2.5	--	--	--	--	--

TABLE 4

SUMMARY OF ARSENIC, LEAD AND PCBs ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	EPA Method 6010B		Dilution Factor	Poly-Chlorinated Biphenols by EPA Method 8082	Dilution Factor
		Arsenic	Lead			
		milligrams per kilogram (mg/kg)			ug/kg	
Detection Limit		2.0	2.0		--	
Site Screening Levels		12*	80**		--	
November 20, 2016	SB041-0.5	**32.2**	64.7	1	--	--
	SB041-1.5	**25.9**	3.37	1	--	--
	SB041-2.5	ND <2.0	--	1	--	--
March 26, 2016	SB041S1-0.5	ND <2.0	64.7	1	--	--
	SB041S1-1.5	ND <2.0	3.37	1	--	--
	SB041S1-2.5	**117**	--	1	--	--
April 29, 2016	SB041S1-3	ND <2.0	--	1	--	--
	SB041S1-4	--	--	--	--	--
	SB041S1-5	--	--	--	--	--
March 26, 2016	SB041S2-0.5	ND <2.0	--	1	--	--
	SB041S2-1.5	ND <2.0	--	1	--	--
	SB041S2-2.5	ND <2.0	--	1	--	--
	SB041S3-0.5	ND <2.0	--	1	--	--
	SB041S3-1.5	ND <2.0	--	1	--	--
	SB041S3-2.5	7.67	--	1	--	--
November 20, 2016	SB042-0.5	ND <2.0	2.86	1	ND <50	1
	SB042-1.5	--	--	--	--	--
	SB042-2.5	--	--	--	--	--
November 19, 2016	SB043-0.5	ND <2.0	**168**	1	--	--
	SB043-1.5	ND <2.0	12.6	1	--	--
	SB043-2.5	--	--	--	--	--
	SB043-0.5 Dup	ND <2.0	12.4	--	--	--
	SB043-1.5 Dup	--	12.6	--	--	--
	SB043-2.5 Dup	--	--	--	--	--
November 5, 2016	SB044-0.5	ND <2.0	ND <2.0	1	--	--
	SB044-1.5	--	--	--	--	--
	SB044-2.5	--	--	--	--	--
November 5, 2016	SB045-0.5	ND <2.0	ND <2.0	1	--	--
	SB045-1.5	--	--	--	--	--
	SB045-2.5	--	--	--	--	--
November 19, 2016	SB046-0.5	ND <2.0	11.7	1	--	--
	SB046-1.5	--	--	--	--	--
	SB046-2.5	--	--	--	--	--
November 19, 2016	SB047-0.5	ND <2.0	19.8	1	--	--
	SB047-1.5	--	--	--	--	--
	SB047-2.5	--	--	--	--	--
November 19, 2016	SB048-0.5	ND <2.0	62.2	1	--	--
	SB048-1.5	--	--	--	--	--
	SB048-2.5	--	--	--	--	--
November 6, 2016	SB049-0.5	ND <2.0	9.89	1	ND <50	1
	SB049-1.5	--	--	--	--	--
	SB049-2.5	--	--	--	--	--
November 6, 2016	SB050-0.5	ND <2.0	ND <2.0	1	--	--
	SB050-1.5	--	--	--	--	--
	SB050-2.5	--	--	--	--	--
November 19, 2016	SB051-0.5	ND <2.0	**96.7**	1	--	--
	SB051-1.5	ND <2.0	25.9	--	--	--
	SB051-2.5	--	--	--	--	--
November 19, 2016	SB052-0.5	ND <2.0	ND <2.0	1	--	--
	SB052-1.5	--	--	--	--	--
	SB052-2.5	--	--	--	--	--
November 19, 2016	SB053-0.5	ND <2.0	2.7	1	--	--
	SB053-1.5	--	--	--	--	--
	SB053-2.5	--	--	--	--	--
	SB053-0.5 Dup	ND <2.0	ND <2.0	--	--	--
	SB053-1.5 Dup	--	--	--	--	--
	SB053-2.5 Dup	--	--	--	--	--
November 20, 2016	SB054-0.5	ND <2.0	ND <2.0	1	--	--
	SB054-1.5	--	--	--	--	--
	SB054-2.5	--	--	--	--	--
November 6, 2016	SB055-0.5	ND <2.0	ND <2.0	1	--	--
	SB055-1.5	--	--	--	--	--
	SB055-2.5	--	--	--	--	--
November 6, 2016	SB056-0.5	ND <2.0	ND <2.0	1	ND <250	5
	SB056-1.5	--	--	--	--	--
	SB056-2.5	--	--	--	--	--

TABLE 4

SUMMARY OF ARSENIC, LEAD AND PCBs ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	EPA Method 6010B		Dilution Factor	Poly-Chlorinated Biphenols by EPA Method 8082	Dilution Factor
		Arsenic	Lead			
		milligrams per kilogram (mg/kg)			ug/kg	
Detection Limit		2.0	2.0		--	
Site Screening Levels		12*	80**		--	
November 6, 2016	SB057-0.5	ND <2.0	ND <2.0	1	--	--
	SB057-1.5	--	--	--	--	--
	SB057-2.5	--	--	--	--	--
November 20, 2016	SB058-0.5	ND <2.0	ND <2.0	1	--	--
	SB058-1.5	--	--	--	--	--
	SB058-2.5	--	--	--	--	--
November 20, 2016	SB059-0.5	ND <2.0	ND <2.0	1	--	--
	SB059-1.5	--	--	--	--	--
	SB059-2.5	--	--	--	--	--
November 20, 2016	SB060-0.5	ND <2.0	8.32	1	--	--
	SB060-1.5	--	--	--	--	--
	SB060-2.5	--	--	--	--	--
November 19, 2016	SB061-0.5	**15.7**	12.9	1	--	--
	SB061-1.5	ND <2.0	ND <2.0	1	--	--
	SB061-2.5	--	--	--	--	--
March 26, 2016	SB061S1-0.5	ND <2.0	--	1	--	--
	SB061S1-1.5	ND <2.0	--	1	--	--
	SB061S1-2.5	--	--	--	--	--
	SB061S2-0.5	ND <2.0	--	1	--	--
	SB061S2-1.5	ND <2.0	--	1	--	--
	SB061S2-2.5	--	--	--	--	--
	SB061S3-0.5	ND <2.0	--	1	--	--
	SB061S3-1.5	ND <2.0	--	1	--	--
	SB061S3-2.5	--	--	--	--	--
November 6, 2016	SB062-0.5	ND <2.0	16.1	1	--	--
	SB062-1.5	--	--	--	--	--
	SB062-2.5	--	--	--	--	--
November 19, 2016	SB063-0.5	8.58	30.5	--	--	--
	SB063-1.5	--	--	--	--	--
	SB063-2.5	--	--	--	--	--
November 6, 2016	SB064-0.5	ND <2.0	ND <2.0	--	--	--
	SB064-1.5	--	--	--	--	--
	SB064-2.5	--	--	--	--	--
November 6, 2016	SB065-0.5	ND <2.0	**149**	--	--	--
	SB065-1.5	--	8.9	--	--	--
	SB065-2.5	--	--	--	--	--
March 26, 2016	SB065S1-0.5	ND <2.0	ND <2.0	1	--	--
	SB065S1-1.5	--	3.64	1	--	--
	SB065S1-2.5	--	--	--	--	--
	SB065S2-0.5	ND <2.0	11.1	1	--	--
	SB065S2-1.5	--	8.38	1	--	--
	SB065S2-2.5	--	--	--	--	--
November 6, 2016	SB066-0.5	ND <2.0	48.2	--	--	--
	SB066-1.5	--	--	--	--	--
	SB066-2.5	--	--	--	--	--
November 6, 2016	SB067-0.5	ND <2.0	**207**	--	--	--
	SB067-1.5	--	14.6	--	--	--
	SB067-2.5	--	--	--	--	--
March 26, 2016	SB067S1-0.5	--	12.3	1	--	--
	SB067S1-1.5	--	2.95	1	--	--
	SB067S1-2.5	--	--	--	--	--
	SB067S2-0.5	--	14.6	1	--	--
	SB067S2-1.5	--	51.4	1	--	--
	SB067S2-2.5	--	--	--	--	--
	SB067S3-0.5	--	17.5	1	--	--
	SB067S3-1.5	--	37.9	1	--	--
	SB067S3-2.5	--	--	--	--	--
	SB067S4-0.5	--	**176**	1	--	--
	SB067S4-1.5	--	59.5	1	--	--
	SB067S4-2.5	--	--	--	--	--

TABLE 4

SUMMARY OF ARSENIC, LEAD AND PCBs ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	EPA Method 6010B		Dilution Factor	Poly-Chlorinated Biphenols by EPA Method 8082	Dilution Factor
		Arsenic	Lead			
		milligrams per kilogram (mg/kg)			ug/kg	
Detection Limit		2.0	2.0		--	
Site Screening Levels		12*	80**		--	
November 6, 2016	SB068-0.5	2.8	**211**	--	--	--
	SB068-1.5	--	50.7	--	--	--
	SB068-2.5	--	--	--	--	--
March 26, 2016	SB068S1-0.5	--	60.3	1	--	--
	SB068S1-1.5	--	ND <2.0	1	--	--
	SB068S1-2.5	--	--	--	--	--
	SB068S2-0.5	--	ND <2.0	1	--	--
	SB068S2-1.5	--	ND <2.0	1	--	--
	SB068S2-2.5	--	--	--	--	--
	SB068S3-0.5	--	ND <2.0	1	--	--
	SB068S3-1.5	--	ND <2.0	1	--	--
	SB068S3-2.5	--	--	--	--	--
	SB068S4-0.5	--	ND <2.0	1	--	--
	SB068S4-1.5	--	ND <2.0	1	--	--
	SB068S4-2.5	--	--	--	--	--
November 6, 2016	SB069-0.5	2.48	**131**	--	--	--
	SB069-1.5	--	11.8	--	--	--
	SB069-2.5	--	--	--	--	--
March 26, 2016	SB069-0.5	--	ND <2.0	1	--	--
	SB069-1.5	--	ND <2.0	1	--	--
	SB069-2.5	--	--	--	--	--
	SB069S1-0.5	--	ND <2.0	1	--	--
	SB069S1-1.5	--	ND <2.0	1	--	--
	SB069S1-2.5	--	--	--	--	--
November 19, 2016	SB070-0.5	ND <2.0	11.6	1	--	--
	SB070-1.5	--	--	--	--	--
	SB070-2.5	--	--	--	--	--
November 6, 2016	SB071-0.5	11.2	**130**	--	--	--
	SB071-1.5	--	**91.8**	--	--	--
	SB071-2.5	--	3.44	--	--	--
July 20, 2017	SB071S1-0.5	--	16.3			
	SB071S2-0.5	--	14.5	--	--	--
	SB071S2-0.5 Dup	--	14.3	--	--	--
November 6, 2016	SB072-0.5	ND <2.0	**94.2**	1	--	--
	SB072-1.5	--	2.05	--	--	--
	SB072-2.5	--	--	--	--	--
November 6, 2016	SB073-0.5	ND <2.0	8.66	1	--	--
	SB073-1.5	--	--	--	--	--
	SB073-2.5	--	--	--	--	--
November 6, 2016	SB074-0.5	ND <2.0	12.5	1	ND <50	1
	SB074-1.5	--	--	--	--	--
	SB074-2.5	--	--	--	--	--
November 6, 2016	SB075-0.5	ND <2.0	16.8	1	--	--
	SB075-1.5	--	--	--	--	--
	SB075-2.5	--	--	--	--	--
November 6, 2016	SB076-0.5	ND <2.0	37.9	1	--	--
	SB076-1.5	--	--	--	--	--
	SB076-2.5	--	--	--	--	--
November 6, 2016	SB077-0.5	ND <2.0	4.19	1	--	--
	SB077-1.5	--	--	--	--	--
	SB077-2.5	--	--	--	--	--
November 19, 2016	SB078-0.5	ND <2.0	7.59	1	--	--
	SB078-1.5	--	--	--	--	--
	SB078-2.5	--	--	--	--	--
	SB078-0.5 Dup	4.97	10.3	--	--	--
	SB078-1.5 Dup	--	--	--	--	--
	SB078-2.5 Dup	--	--	--	--	--
November 6, 2016	SB079-0.5	ND <2.0	ND <2.0	1	--	--
	SB079-1.5	--	--	--	--	--
	SB079-2.5	--	--	--	--	--
November 6, 2016	SB080-0.5	ND <2.0	4.66	--	--	--
	SB080-1.5	--	--	--	--	--
	SB080-2.5	--	--	--	--	--
November 6, 2016	SB081-0.5	ND <2.0	ND <2.0	1	ND <250	5
	SB081-1.5	--	--	--	--	--
	SB081-2.5	--	--	--	--	--

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SUMMARY OF ARSENIC, LEAD AND PCBs ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	EPA Method 6010B		Dilution Factor	Poly-Chlorinated Biphenols by EPA Method 8082	Dilution Factor
		Arsenic	Lead			
		milligrams per kilogram (mg/kg)			ug/kg	
Detection Limit		2.0	2.0		--	
Site Screening Levels		12*	80**		--	
November 6, 2016	SB082-0.5	ND <2.0	ND <2.0	1	--	--
	SB082-1.5	--	--	--	--	--
	SB082-2.5	--	--	--	--	--
November 6, 2016	SB083-0.5	ND <2.0	4.53	1	--	--
	SB083-1.5	--	--	--	--	--
	SB083-2.5	--	--	--	--	--
November 6, 2016	SB084-0.5	ND <2.0	19.4	1	--	--
	SB084-1.5	--	--	--	--	--
	SB084-2.5	--	--	--	--	--
November 6, 2016	SB085-0.5	ND <2.0	17.8	1	--	--
	SB085-1.5	--	--	--	--	--
	SB085-2.5	--	--	--	--	--
November 6, 2016	SB086-0.5	ND <2.0	64.6	1	--	--
	SB086-1.5	--	--	--	--	--
	SB086-2.5	--	--	--	--	--
November 5, 2016	SB087-0.5	ND <2.0	3.64	1	--	--
	SB087-1.5	--	--	--	--	--
	SB087-2.5	--	--	--	--	--
November 5, 2016	SB088-0.5	ND <2.0	23.7	1	--	--
	SB088-1.5	--	--	--	--	--
	SB088-2.5	--	--	--	--	--
November 5, 2016	SB089-0.5	ND <2.0	71.6	1	--	--
	SB089-1.5	--	--	--	--	--
	SB089-2.5	--	--	--	--	--
November 5, 2016	SB090-0.5	ND <2.0	6.18	1	--	--
	SB090-1.5	--	--	--	--	--
	SB090-2.5	--	--	--	--	--
November 5, 2016	SB091-0.5	ND <2.0	2.42	1	--	--
	SB091-1.5	--	--	--	--	--
	SB091-2.5	--	--	--	--	--
November 5, 2016	SB092-0.5	ND <2.0	ND <2.0	1	ND <100	2
	SB092-1.5	--	--	--	--	--
	SB092-2.5	--	--	--	--	--
	SB093-0.5	ND <2.0	5.06	1	--	--
	SB093-1.5	--	--	--	--	--
	SB093-2.5	--	--	--	--	--
November 5, 2016	SB094-0.5	ND <2.0	**81.4**	1	--	--
	SB094-1.5	--	**155**	--	--	--
	SB094-2.5	--	71.1	--	--	--
March 26, 2016	SB094S1-0.5	--	ND <2.0	1	--	--
	SB094S1-1.5	--	ND <2.0	--	--	--
	SB094S1-2.5	--	ND <2.0	--	--	--
November 5, 2016	SB095-0.5	9.15	16.1	1	--	--
	SB095-1.5	--	--	--	--	--
	SB095-2.5	--	--	--	--	--
November 5, 2016	SB096-0.5	2.19	13.1	1	--	--
	SB096-1.5	--	--	--	--	--
	SB096-2.5	--	--	--	--	--
November 5, 2016	SB097-0.5	ND <2.0	76.1	1	--	--
	SB097-1.5	--	--	--	--	--
	SB097-2.5	--	--	--	--	--
November 5, 2016	SB098-0.5	2.56	37.9	1	--	--
	SB098-1.5	--	--	--	--	--
	SB098-2.5	--	--	--	--	--
November 5, 2016	SB099-0.5	5.39	15.3	1	--	--
	SB099-1.5	--	--	--	--	--
	SB099-2.5	--	--	--	--	--
November 5, 2016	SB100-0.5	ND <2.0	**125**	1	--	--
	SB100-1.5	--	3.13	1	--	--
	SB100-2.5	--	--	--	--	--
March 26, 2016	SB100S1-0.5	--	7.77	1	--	--
	SB100S1-1.5	--	ND <2.0	1	--	--
	SB100S1-2.5	--	--	--	--	--
	SB100S2-0.5	--	ND <2.0	1	--	--
	SB100S2-1.5	--	54.7	1	--	--
	SB100S2-2.5	--	--	--	--	--

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NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	EPA Method 6010B		Dilution Factor	Poly-Chlorinated Biphenols by EPA Method 8082	Dilution Factor
		Arsenic	Lead			
		milligrams per kilogram (mg/kg)			ug/kg	
Detection Limit		2.0	2.0		--	
Site Screening Levels		12*	80**		--	
November 5, 2016	SB101-0.5	ND <2.0	64.5	1	--	--
	SB101-1.5	--	--	--	--	--
	SB101-2.5	--	--	--	--	--
	SB102-0.5	**54.5**	49.5	1	--	--
	SB102-1.5	ND <2.0	--	1	--	--
	SB102-2.5	--	--	--	--	--
March 26, 2016	SB102S1-0.5	**57.1**	--	1	--	--
	SB102S1-1.5	ND <2.0	--	1	--	--
	SB102S1-2.5	--	--	--	--	--
	SB102S2-0.5	**109**	--	1	--	--
	SB102S2-1.5	ND <2.0	--	1	--	--
	SB102S2-2.5	--	--	--	--	--
	SB102S3-0.5	ND <2.0	--	1	--	--
	SB102S3-1.5	ND <2.0	--	1	--	--
	SB102S3-2.5	--	--	--	--	--
	SB102S4-0.5	**26.2**	--	1	--	--
	SB102S4-1.5	**111**	--	1	--	--
	SB102S4-2.5	ND <2.0	--	1	--	--
April 29, 2016	SB102S5-0.5	ND <2.0	--	1	--	--
	SB102S5-1.5	ND <2.0	--	1	--	--
	SB102S5-2.5	--	--	--	--	--
	SB102S6-0.5	ND <2.0	--	1	--	--
	SB102S6-1.5	ND <2.0	--	1	--	--
	SB102S6-2.5	--	--	--	--	--
	SB102S7-0.5	--	--	--	--	--
	SB102S7-1.5	--	--	--	--	--
	SB102S7-2.5	--	--	--	--	--
	SB102S8-0.5	--	--	--	--	--
	SB102S8-1.5	--	--	--	--	--
	SB102S8-2.5	--	--	--	--	--
November 5, 2016	SB103-0.5	3.37	7.13	1	--	--
	SB103-1.5	--	--	--	--	--
	SB103-2.5	--	--	--	--	--
November 5, 2016	SB104-0.5	ND <2.0	12.8	1	--	--
	SB104-1.5	--	--	--	--	--
	SB104-2.5	--	--	--	--	--
November 5, 2016	SB105-0.5	3.54	20.6	1	--	--
	SB105-1.5	--	--	--	--	--
	SB105-2.5	--	--	--	--	--
November 5, 2016	SB106-0.5	ND <2.0	22.3	1	--	--
	SB106-1.5	--	--	--	--	--
	SB106-2.5	--	--	--	--	--
November 5, 2016	SB107-0.5	ND <2.0	10.5	1	--	--
	SB107-1.5	--	--	--	--	--
	SB107-2.5	--	--	--	--	--
November 5, 2016	SB108-0.5	ND <2.0	20.3	1	--	--
	SB108-1.5	ND <2.0	--	--	--	--
	SB108-2.5	ND <2.0	--	--	--	--
July 20, 2017	SB111-0.5	2.19	ND <2.0	1	--	--
	SB111-1.5	ND <2.0	ND <2.0	--	--	--
	SB111-2.5	ND <2.0	ND <2.0	--	--	--
July 20, 2017	SB112-0.5	ND <2.0	ND <2.0	1	--	--
	SB112-1.5	ND <2.0	ND <2.0	--	--	--
	SB112-2.5	ND <2.0	ND <2.0	--	--	--
July 20, 2017	SB113-0.5	ND <2.0	11.9	1	--	--
	SB113-1.5	ND <2.0	ND <2.0	--	--	--
	SB113-2.5	ND <2.0	ND <2.0	--	--	--
July 20, 2017	SB114-0.5	ND <2.0	**286**	1	--	--
	SB114-0.5 Dup	6.23	**285**	--	--	--
	SB114-1.5	ND <2.0	ND <2.0	--	--	--
	SB114-2.5	ND <2.0	3.1	--	--	--
July 20, 2017	SB115-0.5	4.74	**357**	1	--	--
	SB115-1.5	ND <2.0	10.5	--	--	--
	SB115-2.5	ND <2.0	55.0	--	--	--
July 20, 2017	SB116-0.5	ND <2.0	59.3	1	--	--
	SB116-1.5	ND <2.0	26.9	--	--	--
	SB116-2.5	ND <2.0	53.1	--	--	--
July 20, 2017	SB117-0.5	7.40	27.0	1	--	--
	SB117-0.5 Dup	10.6	27.0	--	--	--
	SB117-1.5	ND <2.0	ND <2.0	--	--	--
	SB117-2.5	ND <2.0	ND <2.0	--	--	--

TABLE 4

SUMMARY OF ARSENIC, LEAD AND PCBs ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	EPA Method 6010B		Dilution Factor	Poly-Chlorinated Biphenols by EPA Method 8082	Dilution Factor
		Arsenic	Lead			
		milligrams per kilogram (mg/kg)			ug/kg	
Detection Limit		2.0	2.0		--	
Site Screening Levels		12*	80**		--	
July 20, 2017	SB118-0.5	2.96	16.7	1	--	--
	SB118-1.5	ND <2.0	2.50	--	--	--
	SB118-2.5	ND <2.0	5.71	--	--	--
July 20, 2017	SB119-0.5	2.19	18.0	1	--	--
	SB119-1.5	**19.3**	27.6	--	--	--
	SB119-2.5	ND <2.0	ND <2.0	--	--	--

Notes:

-- = Not Analyzed or Not Applicable

ug/kg = micrograms per kilogram

Dup = duplicate

Arsenic and Lead Detection Limit = Equivalent to Practical Quantization Limit

* Regional background arsenic concentration (12 mg/kg) for Southern California soils; Department of Toxic Substances Control (DTSC), March 2008

**DTSCs Human and Ecological Risk Office (HERO), Note 3, Modified Screening Level for lead (80 mg/kg) detected in Site soils, January 2016

Bold concentrations exceed screening levels

TABLE 5

SUMMARY OF METALS ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	Title 22 Metals by EPA Method 6010B/7470A																	
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Dilution Factor
		milligrams per kilogram (mg/kg)																	
Detection Limit		2.0	2.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0	5.0	
DTSC Screening Level[1]		30	12*	5,200	16	1.7	100,000	660	3,000	80	1.0	380	1,600	380	380	5.00	530	23,000	
November 20, 2016	SB011-10	ND <2.0	ND <2.0	140	ND <1.0	ND <1.0	17.7	10.5	22.3	ND <2.0	ND <0.05	ND <2.0	13.7	ND <2.0	ND <1.0	ND <2.0	41.1	47.7	1
	SB011-15	ND <2.0	ND <2.0	101	ND <1.0	ND <1.0	16.7	9.08	17.8	ND <2.0	ND <0.05	ND <2.0	12.1	ND <2.0	ND <1.0	ND <2.0	38.1	40.8	1
November 20, 2016	SB012-10	ND <2.0	ND <2.0	128	ND <1.0	ND <1.0	16.3	9.57	17.5	ND <2.0	ND <0.05	ND <2.0	12.8	ND <2.0	ND <1.0	ND <2.0	38.5	42.4	1
	SB012-15	ND <2.0	ND <2.0	167	ND <1.0	ND <1.0	25.4	12.4	23.9	ND <2.0	ND <0.05	ND <2.0	17.8	ND <2.0	ND <1.0	ND <2.0	48.9	55.5	1
November 20, 2016	SB013-10	ND <2.0	ND <2.0	60.1	ND <1.0	ND <1.0	8.5	4.25	8.97	ND <2.0	ND <0.05	ND <2.0	5.29	ND <2.0	ND <1.0	ND <2.0	30.2	19.2	1
	SB013-15	ND <2.0	ND <2.0	97.9	ND <1.0	ND <1.0	9.44	2.78	38.9	ND <2.0	ND <0.05	ND <2.0	5.64	ND <2.0	ND <1.0	ND <2.0	25.1	54.8	1
December 3, 2016	SB014-10	ND <2.0	ND <2.0	140	ND <1.0	ND <1.0	20.6	13.3	25.9	4.39	ND <0.05	ND <2.0	17.1	ND <2.0	ND <1.0	ND <2.0	44.6	53.2	1
	SB014-15	ND <2.0	ND <2.0	147	ND <1.0	ND <1.0	17.2	12.3	19.7	4.24	ND <0.05	ND <2.0	13.7	ND <2.0	ND <1.0	ND <2.0	36.1	46.6	1
	SB014-15 Dup	ND <2.0	ND <2.0	146	ND <1.0	ND <1.0	21.7	13.5	23.8	4.53	ND <0.05	ND <2.0	17.1	ND <2.0	ND <1.0	ND <2.0	46.1	52.8	1
December 3, 2016	SB015-5	ND <2.0	ND <2.0	111	ND <1.0	ND <1.0	29.9	10.8	20.4	3.17	ND <0.05	ND <2.0	14.1	ND <2.0	ND <1.0	ND <2.0	34.4	44.7	1
	SB015-10	ND <2.0	ND <2.0	132	ND <1.0	ND <1.0	18.5	11.9	21.7	3.28	ND <0.05	ND <2.0	15.9	ND <2.0	ND <1.0	ND <2.0	40.1	47.3	1
	SB015-15	ND <2.0	ND <2.0	127	ND <1.0	ND <1.0	20.6	12.1	22.2	3.21	ND <0.05	ND <2.0	14.7	ND <2.0	ND <1.0	ND <2.0	37.4	44.2	1
	SB015-20	ND <2.0	ND <2.0	70.6	ND <1.0	ND <1.0	11.9	8.19	13.2	ND <2.0	ND <0.05	ND <2.0	8.53	ND <2.0	ND <1.0	ND <2.0	28.5	26.7	1
	SB015-25	ND <2.0	ND <2.0	50.8	ND <1.0	ND <1.0	7.6	5.84	9.3	ND <2.0	ND <0.05	ND <2.0	5.62	ND <2.0	ND <1.0	ND <2.0	20.3	16.8	1
	SB015-30	ND <2.0	ND <2.0	179	ND <1.0	ND <1.0	22.5	17.6	32	3.16	ND <0.05	ND <2.0	17.3	ND <2.0	ND <1.0	ND <2.0	41.9	58.2	1
	SB015-35	ND <2.0	ND <2.0	216	ND <1.0	ND <1.0	23.2	17.2	29.1	2.28	ND <0.05	ND <2.0	16.5	ND <2.0	ND <1.0	ND <2.0	42.3	53.1	1
	SB015-40	ND <2.0	ND <2.0	147	ND <1.0	ND <1.0	25.8	20.2	35.2	4.04	ND <0.05	ND <2.0	15.8	ND <2.0	ND <1.0	ND <2.0	63.8	56.4	1
December 3, 2016	SB016-5	ND <2.0	ND <2.0	150	ND <1.0	ND <1.0	19.2	13.5	21.7	3.7	ND <0.05	ND <2.0	15.3	ND <2.0	ND <1.0	ND <2.0	39.5	50.9	1
	SB016-10	ND <2.0	ND <2.0	133	ND <1.0	ND <1.0	21.2	12.7	21.4	3.18	ND <0.05	ND <2.0	16.6	ND <2.0	ND <1.0	ND <2.0	39.6	48.3	1
	SB016-15	ND <2.0	ND <2.0	134	ND <1.0	ND <1.0	20.7	11.6	21.6	4.38	ND <0.05	ND <2.0	15.7	ND <2.0	ND <1.0	ND <2.0	40.3	47.7	1
	SB016-15 Dup	ND <2.0	ND <2.0	131	ND <1.0	ND <1.0	20.6	11.7	22.4	4.54	ND <0.05	ND <2.0	17.2	ND <2.0	ND <1.0	ND <2.0	42.9	47.9	1
	SB016-20	ND <2.0	ND <2.0	82.2	ND <1.0	ND <1.0	12.8	8.45	12.8	3.36	ND <0.05	ND <2.0	8.93	ND <2.0	ND <1.0	ND <2.0	31.2	28.6	1
	SB016-25	ND <2.0	ND <2.0	65.7	ND <1.0	ND <1.0	6	5.18	11.4	2.97	ND <0.05	ND <2.0	5.66	ND <2.0	ND <1.0	ND <2.0	15.7	21.2	1
	SB016-30	ND <2.0	ND <2.0	213	ND <1.0	ND <1.0	22.3	17.1	31.2	4.89	ND <0.05	ND <2.0	17.3	ND <2.0	ND <1.0	ND <2.0	42.3	55.8	1
	SB016-35	ND <2.0	ND <2.0	95.9	ND <1.0	ND <1.0	12.5	8.82	13.3	2.17	ND <0.05	ND <2.0	9.5	ND <2.0	ND <1.0	ND <2.0	20.9	28	1
	SB016-40	ND <2.0	ND <2.0	60.8	ND <1.0	ND <1.0	24.9	7.28	21.9	2.52	ND <0.05	ND <2.0	7.95	ND <2.0	ND <1.0	ND <2.0	48.9	20.4	1
December 3, 2016	SB017-5	ND <2.0	ND <2.0	96.9	ND <1.0	ND <1.0	15.4	10.1	14.6	ND <2.0	ND <0.05	ND <2.0	11.3	ND <2.0	ND <1.0	ND <2.0	35.1	36.5	1
	SB017-10	ND <2.0	ND <2.0	134	ND <1.0	ND <1.0	21.6	13.9	23.8	3.87	ND <0.05	ND <2.0	18.5	ND <2.0	ND <1.0	ND <2.0	47.5	54.6	1
	SB017-10 Dup	ND <2.0	ND <2.0	122	ND <1.0	ND <1.0	22.2	12.7	24.9	5.18	ND <0.05	ND <2.0	18.2	ND <2.0	ND <1.0	ND <2.0	48.9	53.9	1
	SB017-15	ND <2.0	ND <2.0	150	ND <1.0	ND <1.0	22.6	14.3	24.9	4.5	ND <0.05	ND <2.0	17.7	ND <2.0	ND <1.0	ND <2.0	45.2	55.2	1
	SB017-20	ND <2.0	ND <2.0	94.4	ND <1.0	ND <1.0	17.7	11.2	17.2	2.58	ND <0.05	ND <2.0	13.3	ND <2.0	ND <1.0	ND <2.0	42.2	36.7	1
	SB017-25	ND <2.0	ND <2.0	46.7	ND <1.0	ND <1.0	8.98	5.39	8.74	ND <2.0	ND <0.05	ND <2.0	6.57	ND <2.0	ND <1.0	ND <2.0	22.9	18.4	1
	SB017-30	ND <2.0	ND <2.0	208	ND <1.0	ND <1.0	22.8	16.4	31.1	2.32	ND <0.05	ND <2.0	16.5	ND <2.0	ND <1.0	ND <2.0	42.9	55.7	1
	SB017-35	ND <2.0	ND <2.0	131	ND <1.0	ND <1.0	21.1	16.4	26.3	ND <2.0	ND <0.05	ND <2.0	17.1	ND <2.0	ND <1.0	ND <2.0	46.1	48.5	1
	SB017-40	ND <2.0	ND <2.0	59.6	ND <1.0	ND <1.0	10.9	7.9	12.9	ND <2.0	ND <0.05	ND <2.0	8.29	ND <2.0	ND <1.0	ND <2.0	25.5	24.4	1
December 10, 2016	SB018-5	ND <2.0	ND <2.0	97.4	ND <1.0	ND <1.0	11.7	8.91	14.8	ND <2.0	ND <0.05	ND <2.0	8.34	ND <2.0	ND <1.0	ND <2.0	25.8	34.3	1
	SB018-10	ND <2.0	ND <2.0	131	ND <1.0	ND <1.0	22.7	12.1	22.6	ND <2.0	ND <0.05	ND <2.0	15.3	ND <2.0	ND <1.0	ND <2.0	39.4	50.1	1
	SB018-15	ND <2.0	ND <2.0	122	ND <1.0	ND <1.0	13.7	10.1	17.1	ND <2.0	ND <0.05	ND <2.0	10.8	ND <2.0	ND <1.0	ND <2.0	31.8	39.2	1
	SB018-20	ND <2.0	ND <2.0	161	ND <1.0	ND <1.0	26.8	11.9	27.3	2.23	ND <0.05	ND <2.0	16.8	ND <2.0	ND <1.0	ND <2.0	39.9	75.9	1
	SB018-25	ND <2.0	ND <2.0	97.4	ND <1.0	ND <1.0	39.6	8.98	26.9	ND <2.0	ND <0.05	ND <2.0	15.9	ND <2.0	ND <1.0	ND <2.0	28.4	170	1
	SB018-30	ND <2.0	ND <2.0	142	ND <1.0	ND <1.0	18.2	13.2	24.5	ND <2.0	ND <0.05	ND <2.0	12.9	ND <2.0	ND <1.0	ND <2.0	34.9	50.2	1
	SB018-35	ND <2.0	ND <2.0	284	ND <1.0	ND <1.0	20.7	18.4	37.5	3.08	ND <0.05	ND <2.0	16.6	ND <2.0	ND <1.0	ND <2.0	43.1	60.9	1
	SB018-40	ND <2.0	ND <2.0	39.5	ND <1.0	ND <1.0	6.35	5.02	8.00	ND <2.0	ND <0.05	ND <2.0	4.72	ND <2.0	ND <1.0	ND <2.0	17	16	1
December 3, 2016	SB019-5	ND <2.0	ND <2.0	111	ND <1.0	ND <1.0	18.8	11.4	18.1	2.84	ND <0.05	ND <2.0	14.5	ND <2.0	ND <1.0	ND <2.0	39.3	39.5	1
	SB019-10	ND <2.0	ND <2.0	127	ND <1.0	ND <1.0	21.9	13.1	25.6	5.44	ND <0.05	ND <2.0	19.1	ND <2.0	ND <1.0	ND <2.0	47.4	52.9	1
	SB019-15	ND <2.0	ND <2.0	89.3	ND <1.0	ND <1.0	14.5	9.2	15.1	2.78	ND <0.05	ND <2.0	12.3	ND <2.0	ND <1.0	ND <2.0	30.2	31.9	1
	SB019-20	ND <2.0	ND <2.0	95.4	ND <1.0	ND <1.0	17.4	10.3	15.7	2.07	ND <0.05	ND <2.0	12.7	ND <2.0	ND <1.0	ND <2.0	37.7	34.2	1
	SB019-25	ND <2.0	ND <2.0	102	ND <1.0	ND <1.0	14.5	10.1	13.4	6.92	ND <0.05	ND <2.0	12.2	ND <2.0	ND <1.0	ND <2.0	34.2	38.9	1
	SB019-30	ND <2.0	ND <2.0	142	ND <1.0	ND <1.0	24.1	13.5	22.9	4.12	ND <0.05	ND <2.0	19.3	ND <2.0	ND <1.0	ND <2.0	46	51.8	1
	SB019-30 Dup	ND <2.0	ND <2.0	136	ND <1.0	ND <1.0	23.4	13.8	24	4.81	ND <0.05	ND <2.0	19.1	ND <2.0	ND <1.0	ND <2.0	44.9	49.2	1
	SB019-35	ND <2.0	ND <2.0	130	ND <1.0	ND <1.0	22.3	16.4	28	2.53	ND <0.05	ND <2.0	16.9	ND <2.0	ND <1.0	ND <2.0	40.6	54	1
	SB019-40	ND <2.0	ND <2.0	82.8	ND <1.0	ND <1.0	17.3	11.5	22.6	2.94	ND <0.05	ND <2.0	13.3	ND <2.0	ND <1.0	ND <2.0	38.5	41.3	1

TABLE 5

SUMMARY OF METALS ANALYTICAL DATA

NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	Title 22 Metals by EPA Method 6010B/7470A																
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Dilution Factor
		milligrams per kilogram (mg/kg)																	
Detection Limit		2.0	2.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	2.0	2.0	5.0	
DTSC Screening Level[1]		30	12*	5,200	16	1.7	100,000	660	3,000	80	1.0	380	1,600	380	380	5.00	530	23,000	
December 3, 2016	SB020-5	ND <2.0	ND <2.0	125	ND <1.0	ND <1.0	20.9	11.3	18.1	2.73	ND <0.05	ND <2.0	15	ND <2.0	ND <1.0	ND <2.0	42.6	42.5	1
	SB020-10	ND <2.0	ND <2.0	94.6	ND <1.0	ND <1.0	19.6	11.7	19.4	3.33	ND <0.05	ND <2.0	16.3	ND <2.0	ND <1.0	ND <2.0	44.9	47.2	1
	SB020-15	ND <2.0	ND <2.0	145	ND <1.0	ND <1.0	23.6	14	23.9	3.49	ND <0.05	ND <2.0	19.2	ND <2.0	ND <1.0	ND <2.0	48.6	56.1	1
	SB020-20	ND <2.0	ND <2.0	99.9	ND <1.0	ND <1.0	18.2	10.5	16.7	2.27	ND <0.05	ND <2.0	13.5	ND <2.0	ND <1.0	ND <2.0	44.2	37.4	1
	SB020-25	ND <2.0	ND <2.0	129	ND <1.0	ND <1.0	21.6	13	24.8	3.1	ND <0.05	ND <2.0	17.6	ND <2.0	ND <1.0	ND <2.0	42.8	46.3	1
	SB020-30	ND <2.0	ND <2.0	214	ND <1.0	ND <1.0	27.4	19.9	35.5	4.32	ND <0.05	ND <2.0	21.5	ND <2.0	ND <1.0	ND <2.0	55.1	62.2	1
	SB020-35	ND <2.0	ND <2.0	200	ND <1.0	ND <1.0	28.4	19.1	31.8	2.64	ND <0.05	ND <2.0	19.8	ND <2.0	ND <1.0	ND <2.0	47.9	59.8	1
	SB020-40	ND <2.0	ND <2.0	113	ND <1.0	ND <1.0	15.9	9.46	19.7	2.05	ND <0.05	ND <2.0	12.1	ND <2.0	ND <1.0	ND <2.0	35.6	41.5	1
November 5, 2016	SB109-0.5	ND <2.0	2.13	9.49	ND <1.0	ND <1.0	ND <1.0	24.2	ND <2.0	**101**	ND <0.5	ND <2.0	3.7	ND <2.0	ND <1.0	ND <2.0	ND <2.0	508	1
	SB109-1.5	--	--	--	--	--	--	--	--	**132**	--	--	--	--	--	--	--	--	--
	SB109-2.5	--	--	--	--	--	--	--	--	**88.8**	--	--	--	--	--	--	--	--	--
July 20, 2017	SB109S1-0.5	--	--	--	--	--	--	--	--	19.7	--	--	--	--	--	--	--	--	--
	SB109S1-1.5	--	--	--	--	--	--	--	--	10.7	--	--	--	--	--	--	--	--	--
	SB109S1-2.5	--	--	--	--	--	--	--	--	5.51	--	--	--	--	--	--	--	--	--
	SB109-3	--	--	--	--	--	--	--	--	ND <2.0	--	--	--	--	--	--	--	--	--
December 10, 2016	SB110-5	ND <2.0	ND <2.0	68.2	ND <1.0	ND <1.0	9.46	6.77	10.1	ND <2.0	ND <0.05	ND <2.0	7.05	ND <2.0	ND <1.0	ND <2.0	26.2	25.5	1
	SB110-10	ND <2.0	ND <2.0	162	ND <1.0	ND <1.0	22.5	14.1	26.6	3.71	ND <0.05	ND <2.0	18.3	ND <2.0	ND <1.0	ND <2.0	47.1	61.7	1
	SB110-15	ND <2.0	ND <2.0	160	ND <1.0	ND <1.0	19.2	13.4	23.5	3.27	ND <0.05	ND <2.0	17.6	ND <2.0	ND <1.0	ND <2.0	44.3	57.4	1
	SB110-20	ND <2.0	ND <2.0	152	ND <1.0	ND <1.0	18.6	12.4	21.6	3.27	ND <0.05	ND <2.0	14.8	ND <2.0	ND <1.0	ND <2.0	41.4	47.5	1
	SB110-25	ND <2.0	ND <2.0	112	ND <1.0	ND <1.0	16.7	9.82	15.4	ND <2.0	ND <0.05	ND <2.0	11.1	ND <2.0	ND <1.0	ND <2.0	35.3	37.5	1
	SB110-30	ND <2.0	ND <2.0	249	ND <1.0	ND <1.0	23.4	18.3	32.5	ND <2.0	ND <0.05	ND <2.0	18.2	ND <2.0	ND <1.0	ND <2.0	44.3	62.4	1
	SB110-35	ND <2.0	ND <2.0	180	ND <1.0	ND <1.0	21.4	15.6	26.3	2.51	ND <0.05	ND <2.0	15.4	ND <2.0	ND <1.0	ND <2.0	42.1	55.9	1
	SB110-40	ND <2.0	ND <2.0	62.2	ND <1.0	ND <1.0	9.59	7.18	10.3	ND <2.0	ND <0.05	ND <2.0	7.81	ND <2.0	ND <1.0	ND <2.0	20.5	21.6	1

Notes

-- = Not Analyzed

Dup = duplicate

Arsenic and Lead Detection Limit = Equivalent to Practical Quatization Limit

* Regional background arsenic concentration (12 mg/kg) for Southern California soils; Department of Toxic Substances Control (DTSC), March 2008

[1] - DTSC HERO Note 3, June 2016

**DTSCs Human and Ecological Risk Office (HERO), Note 3, Modified Screening Level for lead (80 mg/kg) detected in Site soils, January 2016

Bold concentrations exceed screening levels

TABLE 6
SUMMARY OF ESTIMATED VOLUMES OF IMPACTED SOIL
NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Area	COC	Impacted Surface Area (Feet)		Impacted Depth (Feet bgs)	Impacted Volume in Cubic Feet	Impacted Volume in Cubic Yards
SB041	Arsenic	7 x 15	105	0 to 3	315	11.7
SB043	Lead	8 x 8	64	0 to 1.5	96	3.6
SB051	Lead	5 x 10	50	0 to 1.5	75	2.8
SB061	Arsenic	5 x 10	50	0 to 1.5	75	2.8
SB065	Lead	5 x 30	150	0 to 1.5	225	8.3
SB067	Lead	8 x 15	120	0 to1.5	180	6.7
SB068	Lead	8 x 10	80	0 to 1.5	120	4.4
SB069	Lead	5 x 10	50	0 to 1.5	75	2.8
SB071	Lead	5 x 5	25	0 to 2.5	62.5	2.3
SB072	Lead	5 x 5	25	0 to 1.5	37.5	1.4
SB094	Lead	3 x 5	15	0 to 2.5	37.5	1.4
SB100	Lead	5 x 5	25	0 to 1.5	37.5	1.4
SB102	Arsenic	16 x 14	224	0 to 1.5	336	12.4
		10 x 5	50	1.5 to 2.5	50	1.9
SB109	Lead	5 x 5	25	0 to 2.5	62.5	2.3
SB114	Lead	5 x 5	25	0 to 1.5	37.5	1.4
SB115	Lead	5 x 5	25	0 to 1.5	37.5	1.4
SB119	Arsenic	5 x 5	25	0 to 2.5	62.5	2.3
Total Impacted Volume						71

TABLE 7
SUMMARY OF SOIL WASTE CHARACTERIZATION DATA
NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample ID	Total and Soluble Waste Threshold Concentrations						Waste Characterization
	Arsenic TTLC	Arsenic STLC	Arsenic TCLP	Lead TTLC	Lead STLC	Lead TCLP	
	mg/kg	mg/l	mg/l	mg/kg	mg/l	mg/l	
Hazardous Waste Limit	500	5	5	1,000	5	5	
SB041S1-2.5	117	7.81	1.46	--	--	--	Calfornia Hazardous Waste
SB043-0.5	ND <2.0	--	--	168	0.52	ND <0.01	Non-Hazardous Waste
SB051-0.5	ND <2.0	--	--	96.7	4.5	ND <0.01	Non-Hazardous Waste
SB061-0.5	15.7	--	--	12.9	--	--	Non-Hazardous Waste
SB065-0.5	ND <2.0	--	--	149	CA Haz - Characterized by SB67 and 68, adjacent to Classroom 1 Building		
SB067-0.5	ND <2.0	--	--	207	13.3	2.19	California Hazardous Waste
SB068-0.5	2.8	--	--	211	17.9	0.45	California Hazardous Waste
SB069-0.5	2.48	--	--	131	CA Haz - Characterized by SB67 and 68, adjacent to Classroom 1 Building		
SB071-0.5	11.2	--	--	130	8.06	ND <0.01	California Hazardous Waste
SB072-0.5	ND <2.0	--	--	94.2	CA Haz - Characterized by SB71-0.5, adjacent to Woodshop Building		
SB094-1.5	--	--	--	155	Ca Haz Waste - Characterized by SB100		
SB100-0.5	ND <2.0	--	--	125	7.67	ND <0.01	Calfornia Hazardous Waste
SB102-0.5	54.5	6.07	--	49.5	--	--	California Hazardous Waste
SB102S4-1.5	111	5.87	1.42	--	--	--	California Hazardous Waste
SB109-0.5 to 1.5	ND <2.0	--	--	88-132	CA Haz - Characterized by SB71-0.5, adjacent to Woodshop Building		

TABLE 8
SUMMARY OF BULK SAMPLE ANALYTICAL DATA
NORTH HOLLYWOOD HIGH SCHOOL 5231 COLFAX AVENUE LOS ANGELES CA

Sample Collection Date	Sample ID	Title 22 Metals by EPA Method 6010B/7470A																					Semi-Volatile Organic Compounds by EPA Method 8070C	
		Antimony	Arsenic	Arsenic STLC	Arsenic TCLP	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Lead STLC	Lead TCLP	Mercury	Molybdenum	Nickel	Nickel STLC	Selenium	Silver	Thallium	Vanadium	Zinc	Benzoic Acid	Other SVOCs
		milligrams per kilogram (mg/kg)																						micrograms per kilogram (ug/kg)	
December 12, 2017	BS01	ND <2.0	116	2.50 mg/l	0.08 mg/l	220	ND <1.0	ND <1.0	39.8	56.3	114	665	4.39 mg/l	0.04 mg/l	ND <0.05	ND <2.0	1,040	35.7 mg/l	ND <2.0	ND <1.0	ND <2.0	1,670	213	4,300	ND
	TTLC	500	500	--	--	10,000	75	--	2,500	8,000	2,500	1,000	--	--	20	3,500	2,000	--	100	500	700	2,400	5,000	--	--
	STLC	15	--	5	--	100	75	--	5	80	25	75	5	--	0.2	350	--	20	1	5	7	24	250	--	--
	TCLP	--	--	--	5	100	--	--	5	--	--	--	--	5	0.2	--	--	--	1	5	--	--	--	--	--

Notes:
-- = Not Analyzed
ND = Not Detected
STLC = Soluble Toxic
ND = Not Detected

TABLE 9
HUMAN HEALTH SCREENING EVALUATION
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE, LOS ANGELES, CA

Constituent of Concern	Maximum Concentration (mg/kg)	Sample Location	Depth (feet bgs)	Cancer Screening Level (mg/kg) [1]	Non-Cancer Screening Level (mg/kg) [1]	Calculated Cancer Risk	Calculated Hazard Index
Arsenic	117	SB041S4-2.5	2-2.5	Use Screening Level of 12 mg/kg			
Lead	357	SB115-0.5	0-0.5	Use Screening Level of 80 mg/kg			
Chlordane	0.232	SB105-0.5	0-0.5	0.44	35	5.27E-07	6.63E-03
DDT	0.146	SB069-0.5	0-0.5	1.9	37	7.68E-08	3.95E-03
DDE	1.14	SB067-0.5	0-0.5	2	--	5.70E-07	--
DDD	0.0333	SB067-0.5	0-0.5	2.3	--	1.45E-08	--
Dieldrin	0.0101	SB089-0.5	0-0.5	0.034	3.2	2.97E-07	3.16E-03
Endrin	0.0488	SB069-0.5	0-0.5	--	19	--	2.57E-03
Heptachlor epoxide	0.0175	SB105-0.5	0-0.5	0.07	1	2.50E-07	1.75E-02
Cumulative Risk						1.74E-06	3.38E-02

[1] - DTSC HERO Note 3, June 2016

APPENDIX A

PEA-Equivalent Sampling Locations

TABLE 1
NORTH HOLLYWOOD HIGH SCHOOL SAMPLE ANALYSIS PLAN

Boring ID	Matrix	Sample Depths	REC ID	Area of Concern	Analysis
SV01	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SV02	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SV03	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SV04	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SV05	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SV06	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SV07	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SV08	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SV09	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SV10	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SV11	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SV12	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SV13	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SV14	Soil vapor	5', 15'	REC 1, 2, 3, and 6	Historical uses	VOCs by EPA 8260SV
SB001	Soil	10', 15', 20'	REC 2	Hydraulic lifts, auto shop	TPH-CC by EPA 8015M, PCBs by EPA 8082
SB002	Soil	10', 15', 20'	REC 2	Hydraulic lifts, auto shop	TPH-CC by EPA 8015M, PCBs by EPA 8082
SB003	Soil	10', 15', 20'	REC 2	Hydraulic lifts, auto shop	TPH-CC by EPA 8015M, PCBs by EPA 8082
SB004	Soil	10', 15', 20'	REC 2	Hydraulic lifts, auto shop	TPH-CC by EPA 8015M, PCBs by EPA 8082
SB005	Soil	10', 15', 20'	REC 2	Hydraulic lifts, auto shop	TPH-CC by EPA 8015M, PCBs by EPA 8082
SB006	Soil	10', 15', 20'	REC 2	Hydraulic lifts, auto shop	TPH-CC by EPA 8015M, PCBs by EPA 8082
SB007	Soil	10', 15', 20'	REC 2	Hydraulic lifts, auto shop	TPH-CC by EPA 8015M, PCBs by EPA 8082
SB008	Soil	4', 8'	REC 2	Clarifier outside auto shop	TPH-CC by EPA 8015M, VOCs by EPA 8260, PCBs by 8082
SB009	Soil	4', 8'	REC 2	Clarifier outside auto shop	TPH-CC by EPA 8015M, VOCs by EPA 8260, PCBs by 8083
SB010	Soil	10', 15'	REC 3	Historical grease pit	TPH-CC by EPA 8015M, VOCs by EPA 8260
SB011	Soil	10', 15'	REC 4	Historical cesspool/drywell	TPH-CC by EPA 8015M, VOCs by EPA 8260, PAHS by EPA 8270 SIM, Title 22 metals by EPA 6010B/7000
SB012	Soil	10', 15'	REC 4	Historical cesspool/drywell	TPH-CC by EPA 8015M, VOCs by EPA 8260, PAHS by EPA 8270 SIM, Title 22 metals by EPA 6010B/7000
SB013	Soil	10', 15'	REC 4	Historical septic tank	TPH-CC by EPA 8015M, VOCs by EPA 8260, PAHS by EPA 8270 SIM, Title 22 metals by EPA 6010B/7000
SB014	Soil	10', 15'	REC 4	Historical cesspool/drywell	TPH-CC by EPA 8015M, VOCs by EPA 8260, PAHS by EPA 8270 SIM, Title 22 metals by EPA 6010B/7000
SB015	Soil	5', 10', 15', 20', 25', 30', 35', 40'	REC 4	Historical cesspool/drywell	TPH-CC by EPA 8015M, VOCs by EPA 8260, PAHS by EPA 8270 SIM, Title 22 metals by EPA 6010B/7000
SB016	Soil	5', 10', 15', 20', 25', 30', 35', 40'	REC 4	Historical cesspool/drywell	TPH-CC by EPA 8015M, VOCs by EPA 8260, PAHS by EPA 8270 SIM, Title 22 metals by EPA 6010B/7000
SB017	Soil	5', 10', 15', 20', 25', 30', 35', 40'	REC 4	Historical septic tank	TPH-CC by EPA 8015M, VOCs by EPA 8260, PAHS by EPA 8270 SIM, Title 22 metals by EPA 6010B/7000
SB018	Soil	5', 10', 15', 20', 25', 30', 35', 40'	REC 4	Historical cesspool/drywell	TPH-CC by EPA 8015M, VOCs by EPA 8260, PAHS by EPA 8270 SIM, Title 22 metals by EPA 6010B/7000
SB019	Soil	5', 10', 15', 20', 25', 30', 35', 40'	REC 4	Historical septic tank	TPH-CC by EPA 8015M, VOCs by EPA 8260, PAHS by EPA 8270 SIM, Title 22 metals by EPA 6010B/7000
SB020	Soil	5', 10', 15', 20', 25', 30', 35', 40'	REC 4	Historical cesspool/drywell	TPH-CC by EPA 8015M, VOCs by EPA 8260, PAHS by EPA 8270 SIM, Title 22 metals by EPA 6010B/7000
SB021	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081, PCBs by EPA 8082
SB022	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB023	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB024	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB025	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB026	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB027	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB028	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB029	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB030	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB031	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081, PCBs by EPA 8082
SB032	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB033	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081

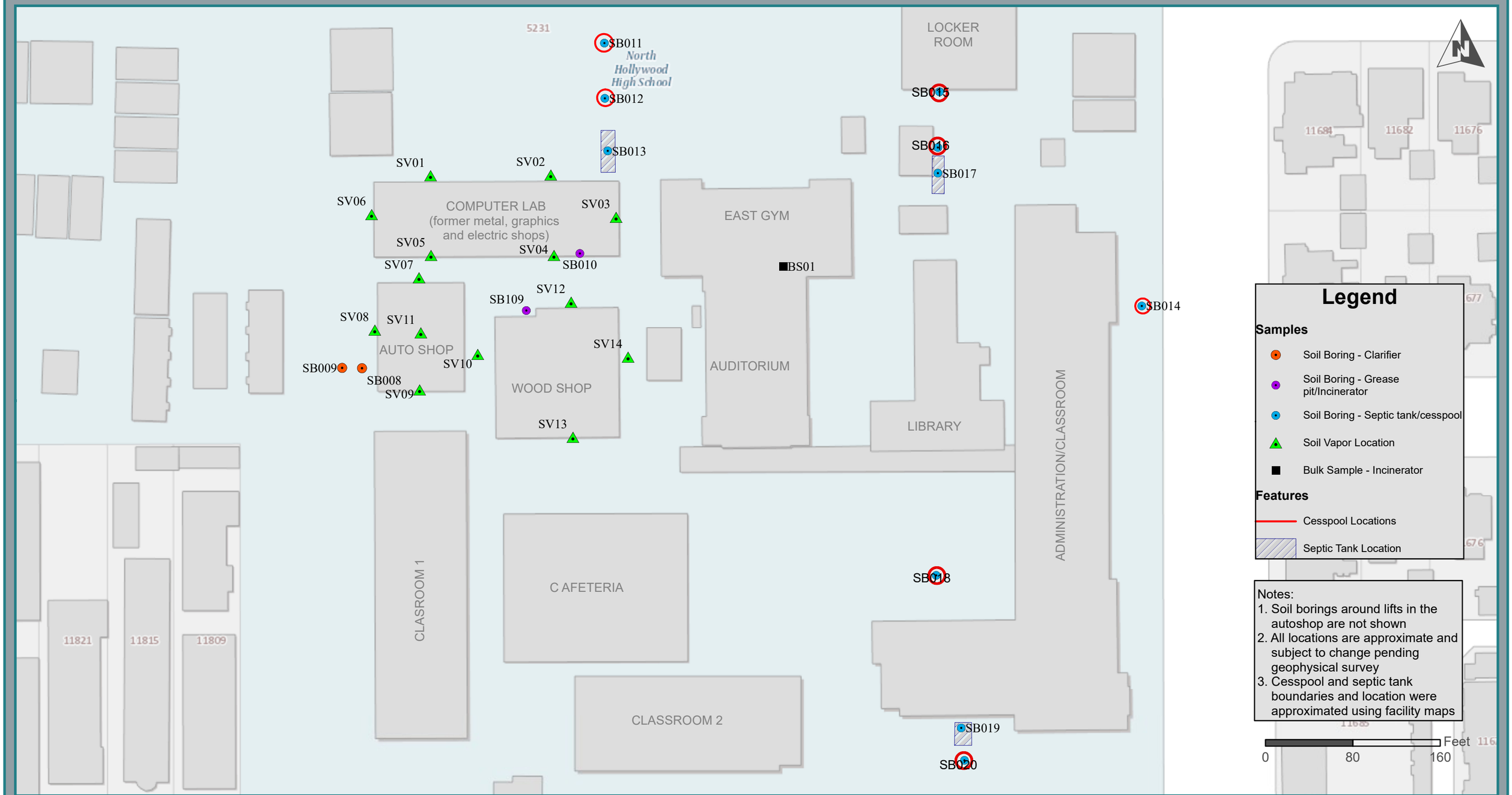
TABLE 1
NORTH HOLLYWOOD HIGH SCHOOL SAMPLE ANALYSIS PLAN

Boring ID	Matrix	Sample Depths	REC ID	Area of Concern	Analysis
SB034	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB035	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB036	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB037	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB038	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB039	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB040	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB041	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081, PCBs by EPA 8082
SB042	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB043	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB044	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB045	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB046	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB047	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB048	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB049	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB050	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB051	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081, PCBs by EPA 8082
SB052	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB053	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB054	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB055	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB056	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB057	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB058	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB059	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB060	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB061	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081, PCBs by EPA 8082
SB062	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB063	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB064	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB065	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB066	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB067	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB068	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB069	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB070	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB071	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081, PCBs by EPA 8082
SB072	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB073	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB074	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB075	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB076	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB077	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB078	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB079	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB080	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB081	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081, PCBs by EPA 8082
SB082	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB083	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB084	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB085	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081

TABLE 1
NORTH HOLLYWOOD HIGH SCHOOL SAMPLE ANALYSIS PLAN

Boring ID	Matrix	Sample Depths	REC ID	Area of Concern	Analysis
SB086	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB087	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB088	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB089	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB090	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB091	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081, PCBs by EPA 8082
SB092	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB093	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB094	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB095	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB096	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB097	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB098	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB099	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB100	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB101	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081, PCBs by EPA 8082
SB102	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB103	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB104	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB105	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB106	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB107	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB108	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 7	Existing building exteriors	Lead and Arsenic by EPA 6010B, OCPs by EPA 8081
SB109	Soil	0' to 0.5', 1' to 1.5', 2' to 2.5'	REC 5	Shop - former incinerator	SVOCs by EPA 8270C, Title 22 metals by EPA 6010B/7000
BS01	Bulk	NA	REC 5	East Gym basement	SVOCs by EPA 8270C, Title 22 metals by EPA 6010B/7000

Notes:
OCPs - organochlorine pesticides
PCBs - polychlorinated biphenyls
SVOCs - semivolatile organic compounds
TPH-CC - total petroleum hydrocarbons as carbon chain range C6 to C44
VOCs - volatile organic compounds



E2MANAGETECH
COLLABORATE | INNOVATE | DELIVER

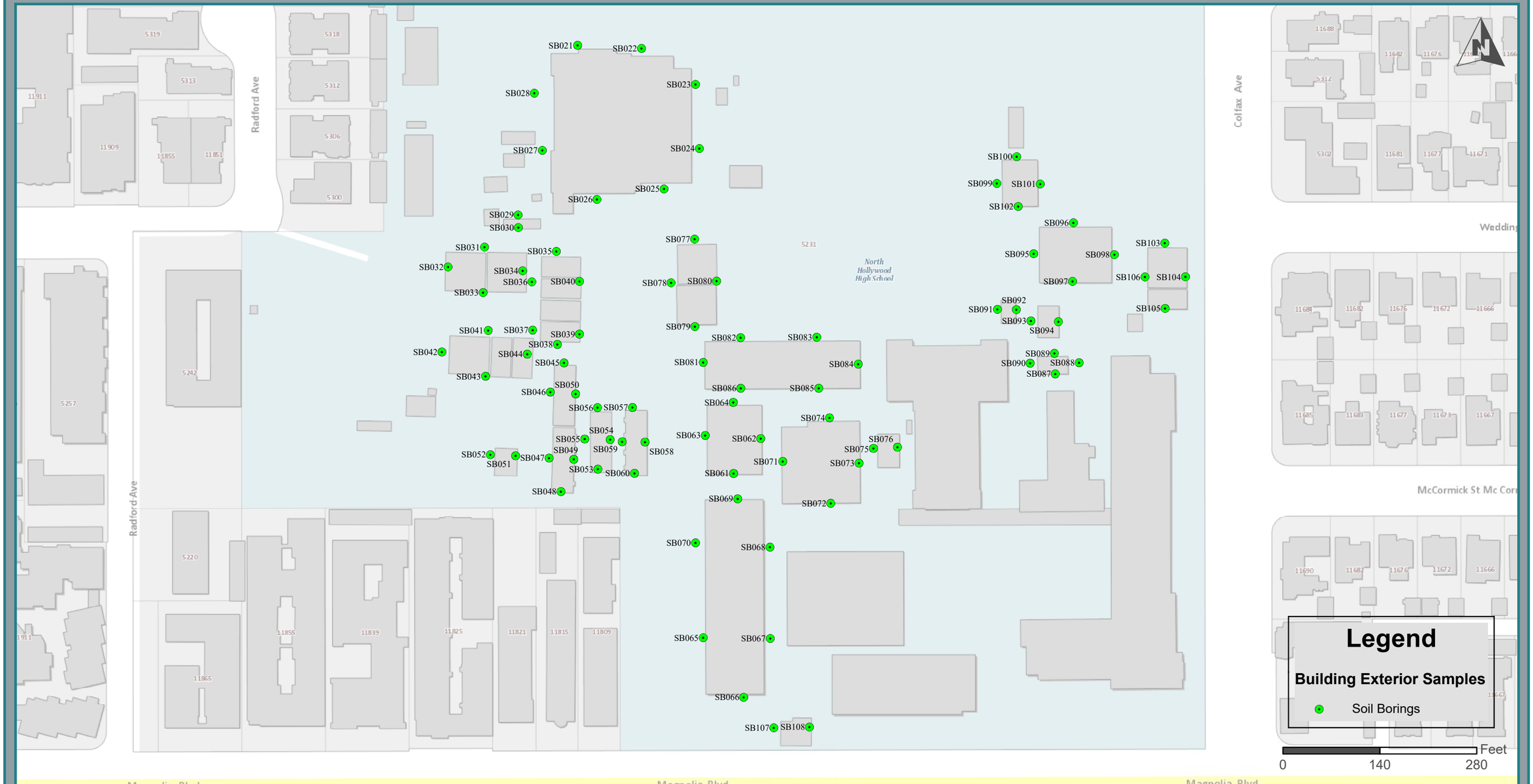
NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE
LOS ANGELES, CA 91601

REC 1 - 6:
SAMPLING LOCATION MAP

PROJECT NUMBER: 16-201-003

AUGUST 2016

FIGURE1



E2 MANAGETECH

COLLABORATE | INNOVATE | DELIVER

NORTH HOLLYWOOD HIGH SCHOOL
5231 COLFAX AVENUE
LOS ANGELES, CA 91601

REC 7:
SOIL SAMPLING LOCATION MAP

PROJECT NUMBER: 16-201-003

AUGUST 2016

FIGURE 2

APPENDIX B

Photos



Sample Location SB067 Area



Sample Location SB0041 Area



Sample Location SB100 Area



Sample Location SB102 Area



Sample Location SB094 Area



Sample Location SB069 Area



Sample Location SB043 Area



Sample Location SB051 Area



Sample Location SB065 Area



Sample Location SB068 Area



Sample Location SB061 Area



Sample Location SB109 Area



Sample Location SB072 Area



Sample Location SB071 Area



Sample Location SB114 Area



Sample Location SB115 Area



Sample Location SB119 Area

APPENDIX C

Copy of Community Notification

Los Angeles Unified School District

Office of Environmental Health and Safety

MICHELLE KING
Superintendent of Schools

THELMA MELÉNDEZ, PH.D.
Chief Executive Officer, Office of Educational Services

ROBERT LAUGHTON
Director, Environmental Health and Safety

CARLOS A. TORRES
Deputy Director, Environmental Health and Safety

September 19, 2016

TO: Neighbors and Community Members of the
North Hollywood High School

FROM: Los Angeles Unified School District
Office of Environmental Health and Safety

REGARDING: Preliminary Environmental Assessment
North Hollywood High School, Los Angeles, California

The Los Angeles Unified School District (LAUSD) - Office of Environmental Health and Safety (OEHS) would like to provide you with advance notice of a Preliminary Environmental Assessment (PEA) that will be conducted within the boundaries of North Hollywood High School, located at 5231 Colfax Avenue, North Hollywood, California, 91601. The PEA will cover most of the campus scheduled to undergo a comprehensive modernization.

A licensed contractor, working on behalf of LAUSD, will perform the environmental investigation under the independent oversight of the LAUSD-OEHS, which is independent from the LAUSD Facilities Services Division (The Facilities Services Division is the responsible Branch for the development and construction of the project). The environmental investigation will consist of the sampling of soil and soil gas in the locations on campus where existing buildings will be demolished, new buildings will be constructed, where hydraulic hoists are located in shop buildings, where a clarifier/oil water separator is located outside the auto shop, and at the locations of historic cesspools, septic tanks, and dry wells. Soil will be analyzed for potential residual arsenic, hydrocarbons, lead-based paint, polychlorinated biphenyls (PCBs), organochlorine pesticides (OCPs), petroleum hydrocarbons, polycyclic aromatic hydrocarbons, and volatile organic compounds (VOCs) in soil. Soil gas will be analyzed for VOCs. If necessary, a soil cleanup will be performed prior to construction activities to protect students, faculty, and staff.

Fieldwork is scheduled to begin over the weekends starting September 29 and 30, 2016, and is expected to be completed over the course of 5 weekend days. All fieldwork is scheduled to be conducted when students are away from school, on the weekends, between 7:00 am and 5:00 pm.

The results of the investigation will be submitted to LAUSD-OEHS in a report for review. The report will include an assessment of whether any of the above listed compounds are present in soil at concentrations that would require further assessment or a response action before the Site is cleared for construction activities. When the OEHS's review is complete, OEHS will issue a determination with regard to the assessment.

If you have any questions concerning the upcoming environmental investigation or other related activities for the proposed comprehensive modernization of North Hollywood High School, please contact Dane Robinson, LAUSD Office of Environmental Health and Safety Site Assessment Project Manager, at (213) 241-4122 (email at dane.robinson@lausd.net).

Si desea información en español comuníquese con Fortunato Tapia de FSD Relaciones Comunitarias al (213) 241-1338 (línea directa) o (213) 241-1340 (línea principal) o por correo electrónico a fortunato.tapia@lausd.net.

APPENDIX D

Soil Boring Logs

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB001

Sheet 1 of 1

Date(s) Drilled November 19, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 20'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet / Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
0						6-8" Concrete Surface		
5						no sample		
10					SM	Silty Sand, dark brown, fine, damp, no odors or staining		
15					SM	Silty Sand, dark brown, very fine to fine, damp, no odors or staining		
20					SP	Sand, dark brown, very fine to fine, dry, no odors or staining		
25								
30								
35								
40								

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB002

Sheet 1 of 1

Date(s) Drilled December 10, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 20.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet	Depth, Feet	SAMPLES Type	SAMPLES Number	Blows/Foot	Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
	0						6-8" Concrete Surface		
	5						No Sample		
	10					SM	Silty Sand, dark brown, fine, damp, no odors or staining		
	15					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
	20					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
	25								
	30								
	35								
	40								

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB003

Sheet 1 of 1

Date(s) Drilled December 10, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 20.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet / Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
0						6-8" Concrete Surface		
5						No Sample		
10					SM	Silty Sand, dark brown, fine, damp, no odors or staining		
15					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
20					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
25								
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35								
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Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB004

Sheet 1 of 1

Date(s) Drilled December 10, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 20.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet / Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
0						6-8" Concrete Surface		
5						No Sample		
10					SM	Silty Sand, dark brown, fine, damp, no odors or staining		
15					SM	Silty Sand, dark brown, very fine to fine, damp, no odors or staining		
20					SP	Sand, brown, very fine to fine, dry, no odors or staining		
25								
30								
35								
40								

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB005

Sheet 1 of 1

Date(s) Drilled December 10, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 20.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet / Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
0						6-8" Concrete Surface		
5						No Sample		
10					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
15					SM	Silty Sand, dark brown, very fine to fine, damp, no odors or staining		
20					SP	Sand, brown, very fine to fine, dry, no odors or staining		
25								
30								
35								
40								

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB006

Sheet 1 of 1

Date(s) Drilled December 10, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 20.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet / Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
0						6-8" Concrete Surface		
5						No Sample		
10					SM	Silty Sand, dark brown, very fine to fine, damp, no odors or staining		
15					SM	Silty Sand, dark brown, very fine to fine, damp, no odors or staining		
20					SM	Silty Sand, dark brown, very fine to fine, damp, no odors or staining		
25								
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40								

CSC, Inc.

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB007

Sheet 1 of 1

Date(s) Drilled December 10, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 20.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet / Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
0						6-8" Concrete Surface		
5						No Sample		
10					SM	Silty Sand, dark brown, very fine to fine, damp, no odors or staining		
15					SM	Silty Sand, dark brown, very fine to fine, damp, no odors or staining		
20					SP	Sand, brown, very fine to fine, dry, no odors or staining		
25								
30								
35								
40								

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB008

Sheet 1 of 1

Date(s) Drilled December 10, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 8.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet / Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
0						6-8" Concrete Surface		
5					SM	Silty Sand, dark brown, very fine to fine, damp, no odors or staining		
10					SM	Silty Sand, dark brown, very fine to fine, damp, no odors or staining		
15								
20								
25								
30								
35								
40								

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB009

Sheet 1 of 1

Date(s) Drilled December 10, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 8.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet / Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
0						6-8" Concrete Surface		
5					SM	Silty Sand, dark brown, very fine to fine, damp, no odors or staining		
10					SM	Silty Sand, dark brown, very fine to fine, damp, no odors or staining		
15								
20								
25								
30								
35								
40								

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB010

Sheet 1 of 1

Date(s) Drilled November 19, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 15.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet / Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
0						In planter area		
5						No Sample		
10					SM	Silty Sand, light yellowish brown, very fine to fine, damp, no odors or staining		
15					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
20								
25								
30								
35								
40								

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB011

Sheet 1 of 1

Date(s) Drilled November 20, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 15.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet	Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
	0						In field area, grass surface		
	5						No Sample		
	10					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
	15					SM	Silty Sand, light brown, very fine to fine, damp, no odors or staining		
	20								
	25								
	30								
	35								
	40								

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB012

Sheet 1 of 1

Date(s) Drilled November 20, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 15.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet	Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
	0						In field area, grass surface		
	5						No Sample		
	10					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
	15					SM	Silty Sand, light brown, very fine to fine, damp, no odors or staining		
	20								
	25								
	30								
	35								
	40								

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB013

Sheet 1 of 1

Date(s) Drilled November 20, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 15.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet / Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
0						In field area, grass surface		
5						No Sample		
10					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
15					SP	Sand, brown, very fine to fine, damp, no odors or staining		
20								
25								
30								
35								
40								

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB014

Sheet 1 of 1

Date(s) Drilled December 3, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 15.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet	Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
	0						In landscape area		
	5						No Sample		
	10					SP	Sand, brown, very fine to fine, damp, no odors or staining		
	15					SP	Sand, light brown, very fine to fine, damp, no odors or staining		
	20								
	25								
	30								
	35								
	40								

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB015

Sheet 1 of 1

Date(s) Drilled December 3, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 40.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet / Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
0						3-4" Asphalt surface		
5					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
10					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
15					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
20					SP	Sand, brown, fine to medium, dry, no odors or staining		
25					SP	Sand, light brown, fine to medium, trace fine gravel, dry, no odors or staining		
30					SC	Clayey Sand, light brown, very fine to fine, damp, no odors or staining		
35					SC	Clayey Sand, light brown, very fine to fine, damp, no odors or staining		
40					SP	Sand, light brown, fine to medium, dry, no odors or staining		

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB016

Sheet 1 of 1

Date(s) Drilled December 3, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 40.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet	Depth, Feet	SAMPLES Type	SAMPLES Number	Blows/Foot	Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
	0						3-4" Asphalt surface		
	5					SP	Sand, brown, fine to medium, trace silt, dry, no odors or staining		
	10					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
	15					SM	Silty Sand, brown, very fine to fine, damp, no odors or staining		
	20					SP	Sand, light brown, fine to medium, dry, no odors or staining		
	25					SP	Sand, light brown, fine to medium, some gravel, dry, no odors or staining		
	30					SC	Clayey Sand, light brown, very fine to fine, damp, no odors or staining		
	35					SP	Sand, brown, fine to medium, trace silt, dry, no odors or staining		
	40					SP	Sand, light brown, fine to medium, some gravel, dry, no odors or staining		

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB017

Sheet 1 of 1

Date(s) Drilled December 3, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 40.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet	Depth, Feet	SAMPLES Type	SAMPLES Number	Blows/Foot	Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
	0						Landscaped area, grass surface		
	5					SP	Sand, brown, fine to medium, dry, no odors or staining		
	10					SM	Silty Sand, brown, very fine to fine, dry, no odors or staining		
	15					SM	Silty Sand, brown, very fine to fine, dry, no odors or staining		
	20					SP	Sand, light brown, fine to medium, dry, no odors or staining		
	25					SP	Sand, light brown, fine to medium, trace gravel, dry, no odors or staining		
	30					SC	Clayey Sand, light brown, very fine to fine, damp, no odors or staining		
	35					SP	Sand, brown, fine to medium, dry, no odors or staining		
	40					SP	Sand, light brown, fine to medium, trace gravel, dry, no odors or staining		

CSC, Inc.

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB018

Sheet 1 of 1

Date(s) Drilled December 10, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 40.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet	Depth, Feet	SAMPLES Type	SAMPLES Number	Blows/Foot	Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
	0						Landscaped area, grass surface		
	5					SP	Sand, brown, fine to medium, dry, no odors or staining		
	10					SM	Silty Sand, brown, very fine to fine, dry, no odors or staining		
	15					SM	Silty Sand, brown, very fine to fine, dry, no odors or staining		
	20					SP	Sand, light brown, fine to medium, dry, no odors or staining		
	25					SP	Sand, light brown, fine to medium, trace gravel, dry, no odors or staining		
	30					SC	Clayey Sand, light brown, very fine to fine, damp, no odors or staining		
	35					SP	Sand, brown, fine to medium, dry, no odors or staining		
	40					SP	Sand, brown, fine to medium, trace gravel, dry, no odors or staining		

CSC, Inc.

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB019

Sheet 1 of 1

Date(s) Drilled December 3, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 40.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet	Depth, Feet	SAMPLES Type	SAMPLES Number	Blows/Foot	Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
	0						Landscaped area, grass surface		
	5					SP	Sand, brown, very fine to medium, dry, no odors or staining		
	10					SM	Silty Sand, light brown, very fine to fine, dry, no odors or staining		
	15					SM	Silty Sand, brown, very fine to fine, dry, no odors or staining		
	20					SP	Sand, light brown, fine to medium, dry, no odors or staining		
	25					SP	Sand, light brown, fine to medium, trace gravel, dry, no odors or staining		
	30					SC	Clayey Sand, light brown, very fine to fine, damp, no odors or staining		
	35					SP	Sand, brown, fine to medium, trace silt, dry, no odors or staining		
	40					SP	Sand, light brown, fine to medium, some gravel, dry, no odors or staining		

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB020

Sheet 1 of 1

Date(s) Drilled December 3, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 40.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet	Depth, Feet	SAMPLES Type	SAMPLES Number	Blows/Foot	Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
	0						Landscaped area, grass surface		
	5					SP	Sand, brown, very fine to medium, dry, no odors or staining		
	10					SM	Silty Sand, brown, very fine to fine, dry, no odors or staining		
	15					SM	Silty Sand, brown, very fine to fine, dry, no odors or staining		
	20					SP	Sand, light brown, very fine to medium, dry, no odors or staining		
	25					SP	Sand, light brown, fine to medium, trace gravel, dry, no odors or staining		
	30					SC	Clayey Sand, light brown, very fine to fine, damp, no odors or staining		
	35					SP	Sand, brown, fine to medium, dry, no odors or staining		
	40					SP	Sand, brown, fine to medium, trace gravel, dry, no odors or staining		

CSC, Inc.

Project: Hollywood High School
Project Location: 5231 Colfax Avenue
Project Number: 4007736

SB110

Sheet 1 of 1

Date(s) Drilled December 10, 2016	**Logged By** A Garrett	**Checked By** J Bannon
Drilling Method Direct-push	**Drilling Contractor** Kehoe Testing & Engineering	**Total Depth of Borehole (ft bgs)** 40.5'
Drill Rig Type Truck-mounted	**Sampler Type** split-spoon	**Approx. Surface Elevation**
Approx. Depth Groundwater Encountered	**Drill Bit Size Type**	**Top of Casing Elevation**
Borehole Diameter (inches) 2"	**Type of Well Casing**	**Screen Perforation**
Type of Sand Pack	**Type and Depth of Seal(s)**	
Comments		

Elevation, Feet / Depth, Feet	SAMPLES: Type	SAMPLES: Number	SAMPLES: Blows/Foot	SAMPLES: Inches Recovered	Soil Type	MATERIAL DESCRIPTION	Sample Time	COMMENTS
0						Landscaped area, grass surface		
5					SP	Sand, light brown, very fine to medium, trace gravel, dry, no odors or staining		
10					SP	Sand, brown, very fine to medium, trace gravel, dry, no odors or staining		
15					SM	Silty Sand, brown, very fine to fine, dry, no odors or staining		
20					SP	Sand, light brown, fine to medium, trace gravel, dry, no odors or staining		
25					SP	Sand, light brown, very fine to fine, trace silt, dry, no odors or staining		
30					SM	Silty Sand, brown, very fine to fine, dry, no odors or staining		
35					SP	Sand, brown, fine to medium, dry, no odors or staining		
40					SP	Sand, light brown, very fine to medium, dry, no odors or staining		

APPENDIX E

Laboratory Analytical Results

CHEMTEK
environmental laboratories
ELAP: 1435
LACSD: 10167
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Client: CSC
110 Pine Ave
Long Beach, CA

Attention: Aarron Garrett

Project No.
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 611024
Report Date: 02/09/17
Date Received: 11/07/16
Number of Samples: 189
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB021-0.5	11/05/16	611024-01A
SB021-1.5	11/05/16	611024-02A
SB021-2.5	11/05/16	611024-03A
SB022-0.5	11/05/16	611024-04A
SB022-1.5	11/05/16	611024-05A
SB022-2.5	11/05/16	611024-06A
SB023-0.5	11/05/16	611024-07A
SB023-1.5	11/05/16	611024-08A
SB023-2.5	11/05/16	611024-09A
SB024-0.5	11/05/16	611024-10A
SB024-1.5	11/05/16	611024-11A
SB024-2.5	11/05/16	611024-12A
SB025-0.5	11/06/16	611024-13A
SB025-1.5	11/06/16	611024-14A
SB025-2.5	11/06/16	611024-15A
SB026-0.5	11/06/16	611024-16A
SB026-1.5	11/06/16	611024-17A
SB026-2.5	11/06/16	611024-18A
SB027-0.5	11/06/16	611024-19A
SB027-1.5	11/06/16	611024-20A
SB027-2.5	11/06/16	611024-21A
SB028-0.5	11/06/16	611024-22A
SB028-1.5	11/06/16	611024-23A
SB028-2.5	11/06/16	611024-24A
SB039-0.5	11/06/16	611024-25A
SB039-1.5	11/06/16	611024-26A
SB039-2.5	11/06/16	611024-27A
SB040-0.5	11/06/16	611024-28A
SB040-1.5	11/06/16	611024-29A
SB040-2.5	11/06/16	611024-30A
SB049-0.5	11/06/16	611024-31A
SB049-1.5	11/06/16	611024-32A
SB049-2.5	11/06/16	611024-33A
SB050-0.5	11/06/16	611024-34A
SB050-1.5	11/06/16	611024-35A
SB050-2.5	11/06/16	611024-36A
SB055-0.5	11/06/16	611024-37A
SB055-1.5	11/06/16	611024-38A
SB055-2.5	11/06/16	611024-39A
SB056-0.5	11/06/16	611024-40A
SB056-1.5	11/06/16	611024-41A
SB056-2.5	11/06/16	611024-42A
SB057-0.5	11/06/16	611024-43A
SB057-1.5	11/06/16	611024-44A
SB057-2.5	11/06/16	611024-45A
SB062-0.5	11/06/16	611024-46A
SB062-1.5	11/06/16	611024-47A
SB062-2.5	11/06/16	611024-48A

CHEMTEK
environmental laboratories
ELAP: 1435
LACSD: 10167
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Client: CSC
110 Pine Ave
Long Beach, CA

Attention: Aarron Garrett

Project No.
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 611024
Report Date: 02/09/17
Date Received: 11/07/16
Number of Samples: 189
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB064-0.5	11/06/16	611024-49A
SB064-1.5	11/06/16	611024-50A
SB064-2.5	11/06/16	611024-51A
SB065-0.5	11/06/16	611024-52A
SB065-1.5	11/06/16	611024-53A
SB065-2.5	11/06/16	611024-54A
SB066-0.5	11/06/16	611024-55A
SB066-1.5	11/06/16	611024-56A
SB066-2.5	11/06/16	611024-57A
SB067-0.5	11/06/16	611024-58A
SB067-1.5	11/06/16	611024-59A
SB067-2.5	11/06/16	611024-60A
SB068-0.5	11/06/16	611024-61A
SB068-1.5	11/06/16	611024-62A
SB068-2.5	11/06/16	611024-63A
SB069-0.5	11/06/16	611024-64A
SB069-1.5	11/06/16	611024-65A
SB069-2.5	11/06/16	611024-66A
SB071-0.5	11/06/16	611024-67A
SB071-1.5	11/06/16	611024-68A
SB071-2.5	11/06/16	611024-69A
SB072-0.5	11/06/16	611024-70A
SB072-1.5	11/06/16	611024-71A
SB072-2.5	11/06/16	611024-72A
SB073-0.5	11/06/16	611024-73A
SB073-1.5	11/06/16	611024-74A
SB073-2.5	11/06/16	611024-75A
SB074-0.5	11/06/16	611024-76A
SB074-1.5	11/06/16	611024-77A
SB074-2.5	11/06/16	611024-78A
SB075-0.5	11/06/16	611024-79A
SB075-1.5	11/06/16	611024-80A
SB075-2.5	11/06/16	611024-81A
SB076-0.5	11/06/16	611024-82A
SB076-1.5	11/06/16	611024-83A
SB076-2.5	11/06/16	611024-84A
SB077-0.5	11/06/16	611024-85A
SB077-1.5	11/06/16	611024-86A
SB077-2.5	11/06/16	611024-87A
SB079-0.5	11/06/16	611024-88A
SB079-1.5	11/06/16	611024-89A
SB079-2.5	11/06/16	611024-90A
SB080-0.5	11/06/16	611024-91A
SB080-1.5	11/06/16	611024-92A
SB080-2.5	11/06/16	611024-93A
SB081-0.5	11/06/16	611024-94A
SB081-1.5	11/06/16	611024-95A
SB081-2.5	11/06/16	611024-96A

CHEMTEK
environmental laboratories
ELAP: 1435
LACSD: 10167
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Client: CSC
110 Pine Ave
Long Beach, CA

Attention: Aarron Garrett

Project No.
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 611024
Report Date: 02/09/17
Date Received: 11/07/16
Number of Samples: 189
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB082-0.5	11/06/16	611024-97A
SB082-1.5	11/06/16	611024-98A
SB082-2.5	11/06/16	611024-99A
SB083-0.5	11/06/16	611024-100A
SB083-1.5	11/06/16	611024-101A
SB083-2.5	11/06/16	611024-102A
SB084-0.5	11/06/16	611024-103A
SB084-1.5	11/06/16	611024-104A
SB084-2.5	11/06/16	611024-105A
SB085-0.5	11/06/16	611024-106A
SB085-1.5	11/06/16	611024-107A
SB085-2.5	11/06/16	611024-108A
SB086-0.5	11/06/16	611024-109A
SB086-1.5	11/06/16	611024-110A
SB086-2.5	11/06/16	611024-111A
SB087-0.5	11/05/16	611024-112A
SB087-1.5	11/05/16	611024-113A
SB087-2.5	11/05/16	611024-114A
SB088-0.5	11/05/16	611024-115A
SB088-1.5	11/05/16	611024-116A
SB088-2.5	11/05/16	611024-117A
SB089-0.5	11/05/16	611024-118A
SB089-1.5	11/05/16	611024-119A
SB089-2.5	11/05/16	611024-120A
SB090-0.5	11/05/16	611024-121A
SB090-1.5	11/05/16	611024-122A
SB090-2.5	11/05/16	611024-123A
SB091-0.5	11/05/16	611024-124A
SB091-1.5	11/05/16	611024-125A
SB091-2.5	11/05/16	611024-126A
SB092-0.5	11/05/16	611024-127A
SB092-1.5	11/05/16	611024-128A
SB092-2.5	11/05/16	611024-129A
SB093-0.5	11/05/16	611024-130A
SB093-1.5	11/05/16	611024-131A
SB093-2.5	11/05/16	611024-132A
SB094-0.5	11/05/16	611024-133A
SB094-1.5	11/05/16	611024-134A
SB094-2.5	11/05/16	611024-135A
SB095-0.5	11/05/16	611024-136A
SB095-1.5	11/05/16	611024-137A
SB095-2.5	11/05/16	611024-138A
SB096-0.5	11/05/16	611024-139A
SB096-1.5	11/05/16	611024-140A
SB096-2.5	11/05/16	611024-141A
SB097-0.5	11/05/16	611024-142A
SB097-1.5	11/05/16	611024-143A
SB097-2.5	11/05/16	611024-144A

CHEMTEK
environmental laboratories
ELAP: 1435
LACSD: 10167
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Client: CSC
110 Pine Ave
Long Beach, CA

Attention: Aarron Garrett

Project No.
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 611024
Report Date: 02/09/17
Date Received: 11/07/16
Number of Samples: 189
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB098-0.5	11/05/16	611024-145A
SB098-1.5	11/05/16	611024-146A
SB098-2.5	11/05/16	611024-147A
SB099-0.5	11/05/16	611024-148A
SB099-1.5	11/05/16	611024-149A
SB099-2.5	11/05/16	611024-150A
SB100-0.5	11/05/16	611024-151A
SB100-1.5	11/05/16	611024-152A
SB100-2.5	11/05/16	611024-153A
SB101-0.5	11/05/16	611024-154A
SB101-1.5	11/05/16	611024-155A
SB101-2.5	11/05/16	611024-156A
SB102-0.5	11/05/16	611024-157A
SB102-1.5	11/05/16	611024-158A
SB102-2.5	11/05/16	611024-159A
SB103-0.5	11/05/16	611024-160A
SB103-1.5	11/05/16	611024-161A
SB103-2.5	11/05/16	611024-162A
SB104-0.5	11/05/16	611024-163A
SB104-1.5	11/05/16	611024-164A
SB104-2.5	11/05/16	611024-165A
SB105-0.5	11/05/16	611024-166A
SB105-1.5	11/05/16	611024-167A
SB105-2.5	11/05/16	611024-168A
SB106-0.5	11/05/16	611024-169A
SB106-1.5	11/05/16	611024-170A
SB106-2.5	11/05/16	611024-171A
SB107-0.5	11/05/16	611024-172A
SB107-1.5	11/05/16	611024-173A
SB107-2.5	11/05/16	611024-174A
SB108-0.5	11/05/16	611024-175A
SB108-1.5	11/05/16	611024-176A
SB108-2.5	11/05/16	611024-177A
SB109-0.5	11/05/16	611024-178A
SB109-1.5	11/05/16	611024-179A
SB109-2.5	11/05/16	611024-180A
SB038-0.5	11/05/16	611024-181A
SB038-1.5	11/05/16	611024-182A
SB038-2.5	11/05/16	611024-183A
SB044-0.5	11/05/16	611024-184A
SB044-1.5	11/05/16	611024-185A
SB044-2.5	11/05/16	611024-186A
SB045-0.5	11/05/16	611024-187A
SB045-1.5	11/05/16	611024-188A
SB045-2.5	11/05/16	611024-189A

Reviewed and Approved:

Michael C.C. Lu
For Laboratory Director

CHEMTEK
environmental laboratories

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 611024
Report Date: 02/09/17
Date of Sample: 11-05/06-16
Date Received: 11/07/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

			Client Sample ID:	Arsenic	Lead	Analysis Date
	DF			1	1	
Analyte			*Detection Limit*	*2.00*	*2.00*	
SB021-0.5	1	ppm		ND	ND	11/16/2016
SB022-0.5	1	ppm		ND	ND	11/16/2016
SB023-0.5	1	ppm		ND	ND	11/16/2016
SB024-0.5	1	ppm		ND	ND	11/16/2016
SB025-0.5	1	ppm		ND	ND	11/16/2016
SB026-0.5	1	ppm		ND	7.67	11/16/2016
SB027-0.5	1	ppm		ND	11.3	11/16/2016
SB028-0.5	1	ppm		ND	2.09	11/16/2016
SB039-0.5	1	ppm		ND	2.30	11/16/2016
SB040-0.5	1	ppm		ND	ND	11/16/2016
SB049-0.5	1	ppm		ND	9.89	11/16/2016
SB050-0.5	1	ppm		ND	ND	11/16/2016
SB055-0.5	1	ppm		ND	ND	11/16/2016
SB056-0.5	1	ppm		ND	ND	11/16/2016
SB057-0.5	1	ppm		ND	ND	11/16/2016
SB062-0.5	1	ppm		ND	16.1	11/16/2016
SB064-0.5	1	ppm		ND	ND	11/16/2016
SB065-0.5	1	ppm		ND	149	11/16/2016
SB066-0.5	1	ppm		ND	48.2	11/16/2016
SB067-0.5	1	ppm		ND	207	11/16/2016
SB068-0.5	1	ppm		2.80	211	11/16/2016
SB069-0.5	1	ppm		2.48	131	11/16/2016
SB071-0.5	1	ppm		11.2	130	11/16/2016
SB072-0.5	1	ppm		ND	94.2	11/16/2016
SB073-0.5	1	ppm		ND	8.66	11/16/2016
SB074-0.5	1	ppm		ND	12.5	11/16/2016
SB075-0.5	1	ppm		ND	16.8	11/16/2016
SB076-0.5	1	ppm		ND	37.9	11/16/2016
SB077-0.5	1	ppm		ND	4.19	11/16/2016
SB079-0.5	1	ppm		ND	ND	11/16/2016
SB080-0.5	1	ppm		ND	4.66	11/16/2016
SB081-0.5	1	ppm		ND	ND	11/16/2016
SB082-0.5	1	ppm		ND	ND	11/16/2016
SB083-0.5	1	ppm		ND	4.53	11/16/2016
SB084-0.5	1	ppm		ND	19.4	11/16/2016
SB085-0.5	1	ppm		ND	17.8	11/16/2016
SB086-0.5	1	ppm		ND	64.6	11/16/2016
SB087-0.5	1	ppm		ND	3.64	11/16/2016
SB088-0.5	1	ppm		ND	23.7	11/16/2016
SB089-0.5	1	ppm		ND	71.6	11/16/2016
SB090-0.5	1	ppm		ND	6.18	11/16/2016
SB091-0.5	1	ppm		ND	2.42	11/16/2016
SB092-0.5	1	ppm		ND	ND	11/16/2016
SB093-0.5	1	ppm		ND	5.06	11/16/2016
SB094-0.5	1	ppm		ND	81.4	11/16/2016
SB095-0.5	1	ppm		9.15	16.1	11/16/2016
SB096-0.5	1	ppm		2.19	13.1	11/16/2016
SB097-0.5	1	ppm		ND	76.1	11/16/2016
SB098-0.5	1	ppm		2.56	37.9	11/16/2016
SB099-0.5	1	ppm		5.39	15.3	11/16/2016

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 611024
Report Date: 02/09/17
Date of Sample: 11-05/06-16
Date Received: 11/07/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:			Arsenic	Lead	Analysis Date
DF			1	1	
Analyte	*Detection Limit*		*2.00*	*2.00*	
SB100-0.5	1	ppm	ND	125	11/16/2016
SB101-0.5	1	ppm	ND	64.5	11/16/2016
SB102-0.5	1	ppm	54.5	49.5	11/16/2016
SB103-0.5	1	ppm	3.37	7.13	11/16/2016
SB104-0.5	1	ppm	ND	12.8	11/16/2016
SB105-0.5	1	ppm	3.54	20.6	11/16/2016
SB106-0.5	1	ppm	ND	22.3	11/16/2016
SB107-0.5	1	ppm	ND	10.5	11/16/2016
SB108-0.5	1	ppm	ND	20.3	11/16/2016
SB109-0.5	1	ppm	2.13	101	11/16/2016
SB038-0.5	1	ppm	ND	9.75	11/16/2016
SB044-0.5	1	ppm	ND	ND	11/16/2016
SB045-0.5	1	ppm	ND	ND	11/16/2016
SB065-1.5	1	ppm		8.9	11/25/2016
SB067-1.5	1	ppm		14.6	11/25/2016
SB068-1.5	1	ppm		50.7	11/25/2016
SB069-1.5	1	ppm		11.8	11/25/2016
SB071-1.5	1	ppm		91.8	11/25/2016
SB072-1.5	1	ppm		2.05	11/25/2016
SB094-1.5	1	ppm		155	11/25/2016
SB100-1.5	1	ppm		3.13	11/25/2016
SB102-1.5	1	ppm	ND		11/25/2016
SB71-2.5	1	ppm	ND	3.44	1/25/2017
SB94-2.5	1	ppm	2.88	71.1	1/25/2017
SB109-2.5	1	ppm	ND	88.8	1/25/2017
SB109-1.5	1	ppm		132	1/31/2017

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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Certificate of Analysis

Client: CSC
Project Site: NHHS
Project No:

Job No: 612068
Report Date: 02/09/17
Date of Sample: 11-05/06-16
Date Received: 11/07/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB109-0.5	Detection
Dilution Factor:	1	Limit
Analyte	(ppm)	(ppm)
Antimony	ND	2.00
Arsenic	2.13	2.00
Barium	9.49	1.00
Beryllium	ND	1.00
Cadmium	ND	1.00
Chromium	ND	1.00
Cobalt	24.2	2.00
Copper	ND	2.00
Lead	101	2.00
Molybdenum	ND	2.00
Nickel	3.70	2.00
Selenium	ND	2.00
Silver	ND	1.00
Thallium	ND	2.00
Vanadium	ND	2.00
Zinc	508	5.00

Analysis Date: 11/18/16

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB109-0.5	Detection
Dilution Factor:	1	Limit
Analyte	(ppm)	(ppm)
Mercury	ND	0.05

Analysis Date: 11/18/16

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client:	CSC	**Job No:**	611024A
Project Site:	NHHS	**Report Date:**	02/09/17
	5231 Colfax Ave	**Date of Sample:**	11/06/16
Extraction Method	STLC (W.E.T Method)	**Date Received:**	11/07/16
Extraction Date	2/3/2017	**Sample Matrix:**	Aqueous(STLC Extract)
EPA Method:	6010B Metals **Units:** ppm or mg/l		

Client Sample ID:	SB68-0.5	SB102-0.5	Detection
Dilution Factor:	2	2	**Limit**
Analyte	**(ppm)**	**(ppm)**	**(ppm)**
Lead	17.9		0.01
Arsenic		6.07	
Analysis Date:	2/9/17	2/9/17	

Extraction Method	TCLP	**Date Received:**	11/07/16
Extraction Date	2/3/2017	**Sample Matrix:**	Aqueous(TCLP Extract)
EPA Method:	6010B Metals **Units:** ppm or mg/l		

Client Sample ID:	SB68-0.5	Detection
Dilution Factor:	2	**Limit**
Analyte	**(ppm)**	**(ppm)**
Lead	0.45	0.01
Analysis Date:	2/9/17	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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Certificate of Analysis

Client: CSC | **Project No.** | **Job No:** 611024
Sample Matrix: Soil | **Project Site:** NHHS | **Report Date:** 02/09/17
Date of Sample: 11/05/16
EPA Method: 8270C | **Units:** ppb or µg/kg | **Date Received:** 11/07/16

Client Sample ID:	SB109-0.5	Detection
Dilution Factor:	1	Limit
	(ppb)	(ppb)
Phenol	ND	200
bis(2-Chloroethyl)Ether	ND	200
2-Chlorophenol	ND	200
1,3-Dichlorobenzene	ND	200
1,4-Dichlorobenzene	ND	200
Benzyl alcohol	ND	200
1,2-Dichlorobenzene	ND	200
2-Methylphenol(O-cresol)	ND	200
bis(2-Chloroisopropyl)Ether	ND	200
n-Nitroso-di-n-Propylamine	ND	200
4-Methylphenol(P-cresol)	ND	200
Hexachloroethane	ND	200
Nitrobenzene	ND	200
Isophorone	ND	200
2-Nitrophenol	ND	200
2,4-Dimethylphenol	ND	200
bis(2-Chloroethoxy) Methane	ND	200
2,4-Dichlorophenol	ND	400
1,2,4-Trichlorobenzene	ND	200
Naphthalene	ND	200
4-Chloroaniline	ND	200
Hexachlorobutadiene	ND	200
4-Chloro-3-Methylphenol	ND	200
2-Methlynaphthalene	ND	200
Hexachlorocyclopentadiene	ND	200
2,4,6-Trichlorophenol	ND	200
2,4,5-Trichlorophenol	ND	200
2-Chloronaphthalene	ND	200
2-Nitroaniline	ND	200
Dimethyl Phthalate	ND	200
Acenaphthylene	ND	200
2,6-Dinitrotoluene	ND	200
3-Nitroaniline	ND	200
Carbazole	ND	200
Benzoic Acid	ND	800
Acenaphthene	ND	200
2,4-Dinitrophenol	ND	200
Dibenzofuran	ND	200
4-Nitrophenol	ND	200
2,4-Dinitrotoluene	ND	200
Fluorene	ND	200
Diethyl Phthalate	ND	200
4-Chlorophenyl Phenyl Ether	ND	200
4-Nitroaniline	ND	200
4,6-Dinitro-2-methylphenol	ND	400
N-Nitrosodiphenylamine	ND	200
4-Bromophenyl Phenyl Ether	ND	200
Hexachlorobenzene(total)	ND	200
Pentachlorophenol	ND	400
Phenanthrene	ND	200
Anthracene	ND	200
Di-n-Butyl Phthalate	ND	200
Fluoranthene	ND	200
Pyrene	ND	200
Butyl Benzyl Phthalate	ND	200
Benzo(a)anthracene	ND	200
3,3-Dichlorobenzidine	ND	200
Chrysene	ND	200
bis(2-Ethylhexyl) Phthalate	ND	200
Di-N-Octyl Phthalate	ND	200
Benzo(b)flouranthene	ND	200
Benzo(k)flouranthene	ND	200
Benzo(a)pyrene	ND	200
Indeno(1,2,3-C,D)Pyrene	ND	200
Dibenz(a,h)anthracene	ND	200
Benzo(g,h,i)perylene	ND	200
N-Nitrosodiemethylamine	ND	200
Pyridine	ND	200
Aniline	ND	200
Benzidine	ND	200

Analysis Date: 12/7/16

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 11/18/16
QC Lab ID: 611024-178A
Units: ppm
Job No: 611024

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	10.0	104.0	164.9%	30	70-130
Arsenic	ND	1.00	101.0	102.0	1.0%	30	70-130
Barium	ND	1.00	94.0	96.0	2.1%	30	70-130
Beryllium	ND	1.00	96.0	97.0	1.0%	30	70-130
Cadmium	ND	1.00	98.0	101.0	3.0%	30	70-130
Chromium	ND	1.00	101.0	106.0	4.8%	30	70-130
Cobalt	ND	1.00	97.0	99.0	2.0%	30	70-130
Copper	ND	1.00	102.0	100.0	2.0%	30	70-130
Lead	ND	1.00	98.0	101.0	3.0%	30	70-130
Molybdenum	ND	1.00	100.0	101.0	1.0%	30	70-130
Nickel	ND	1.00	97.9	99.0	1.1%	30	70-130
Selenium	ND	1.00	101.0	103.0	2.0%	30	70-130
Silver	ND	1.00	76.0	78.0	2.6%	30	70-130
Thallium	ND	1.00	94.0	97.0	3.1%	30	70-130
Vanadium	ND	1.00	98.0	101.0	3.0%	30	70-130
Zinc	ND	1.00	105.0	107.0	1.9%	30	70-130

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CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

Job No.: 611024 / 400 7736

Page: 1 of 12

CUSTOMER INFORMATION

COMPANY NAME: CSC
PROJECT CONTACT: A Garrett Email:
ADDRESS: 110 River Ave. LB 90720
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: NHHS P.O. No.:
SITE ADDRESS: 5231 Colfax Ave. LA
SAMPLED BY: A Garrett ☐ EDF
Turn Around Time: NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	Pb + As 6010B			
1	SB021-0.5	11-5-16	1450	SO		extract from red cap side of sample sleeve		1										X	X			
2	-1.5		1451																			
3	-2.5		1452																			
4	SB022-0.5		1430															X	X			
5	-1.5		1431																			
6	-2.5		1432																			
7	SB023-0.5		1420															X	X			
8	-1.5		1421																			
9	-2.5		1422																			
10	SB024-0.5		1410															X	X			
11	-1.5		1411																			
12	-2.5		1412																			
13	SB025-0.5	11-6-16	1305															X	X			
14	-1.5		1306																			
15	-2.5		1307																			
16	SB026-0.5		1330															X	X			

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Garrett	CSC	11/7/16	1600
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martinez	Chemtek	11/7/16	1600

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CHAIN OF CUSTODY RECORD

611024

Job No.: 4007736

Page: 2 of 12

CUSTOMER INFORMATION

COMPANY NAME:

PROJECT CONTACT: Same Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.

SITE ADDRESS: Same

SAMPLED BY: ☐ EDF

Turn Around Time NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT
1	SB026-1.5	11-6-16	1331	SO	extract from			1
2	-2.5		1332		red cap side			
3	SB027-0.5		1415		of sleeve			
4	-1.5		1416					
5	-2.5		1417					
6	SB028-0.5		1400					
7	-1.5		1401					
8	-2.5		1402					
9	SB039-0.5		1255					
10	~~SB~~ -1.5		1303					
11	-2.5		1304					
12	SB040-0.5		1240					
13	-1.5		1244					
14	-2.5		1246					
15	SB049-0.5		1030					
16	-1.5		1035					

ANALYSIS REQUIRED

8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	Cr + As 6010B			
									X	X			
									X	X			
									X	X			
									X	X			
									X	X			

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		Aaron Gerrish	CSC	11/7/16	1600
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Martinez	Chemtek	11/7/16	1600

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

*Type: **SO**-Soil **GW**-Ground Water **WW**-Waste Water **AQ**-Aqueous **A**-Air **OT**-Other

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CHAIN OF CUSTODY RECORD

611024

Job No.: 400 7736

Page: 3 of 12

CUSTOMER INFORMATION

COMPANY NAME:

PROJECT CONTACT: [illegible] Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME [illegible] P.O. No.

SITE ADDRESS:

SAMPLED BY: ☐ EDF

Turn Around Time NORM ☑ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time REMARKS Preserved	NO. OF CONT
1	SB049-2.5	11-6-16	1040	SO	Extract from	1
2	SB050-0.5		1045		red cap side	
3	-1.5		1050		of sample sleeve	
4	-2.5		1055			
5	SB055-0.5		1100			
6	-1.5		1105			
7	-2.5		1110			
8	SB056-0.5		1151			
9	-1.5		1152			
10	-2.5		1153			
11	SB057-0.5		1145			
12	-1.5		1146			
13	-2.5		1147			
14	SB062-0.5		1006			
15	-1.5		1010			
16	-2.5		1015			

ANALYSIS REQUIRED

8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	PbT As 6010B			
									X	X			
									X	X			
									X	X			
									X	X			
									X	X			

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY: [illegible]	Aaron Garrett	CSC	11/7/16	1600
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY: [illegible]	Martinez	Chemtek	11/7/16	1600

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CHAIN OF CUSTODY RECORD

611024

Job No.: 4007736

Page: 4 of 12

CUSTOMER INFORMATION

COMPANY NAME:

PROJECT CONTACT: Lynne Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.

SITE ADDRESS: Lynne

SAMPLED BY: ☐ EDF Turn Around Time NORM ☐ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	Pb + As 6010B			
1	SB064-0.5	11-6-16	1008	SO		extract sample		1										X	X			
2	-1.5		1011			from red cap																
3	-2.5		1015			of sample sleeve																
4	SB065-0.5		1000															X	X			
5	-1.5		1005																			
6	-2.5		1010																			
7	SB066-0.5		940															X	X			
8	-1.5		945																			
9	-2.5		950																			
10	SB067-0.5		830															X	X			
11	-1.5		835																			
12	-2.5		840																			
13	SB068-0.5		805															X	X			
14	-1.5		810																			
15	-2.5		815																			
16	SB069-0.5		750															X	X			

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Garrett	CSE	11/7/16	1600
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martin	Chemtek	11/7/16	1600

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CHAIN OF CUSTODY RECORD

611624

Job No.: 4007736

CUSTOMER INFORMATION

COMPANY NAME:

PROJECT CONTACT: Same Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.

SITE ADDRESS: Same

SAMPLED BY: ☐ EDF

Turn Around Time NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time REMARKS Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	PCBs + As 6010B			
1	SB069-1.5	11-6-16	755	SO	Extract from	1														
2	-2.5		800		Red cap on															
3	SB071-0.5		1048		sample sleeve											X	X			
4	-1.5		1052																	
5	-2.5		1055																	
6	SB072-0.5		1103													X	X			
7	-1.5		1106																	
8	-2.5		1109																	
9	SB073-0.5		400													X	X			
10	-1.5		404																	
11	-2.5		408																	
12	SB074-0.5		748													X	X			
13	-1.5		752																	
14	-2.5		754																	
15	SB075-0.5		848													X	X			
16	-1.5		852																	

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Garrett	esc	11/7/16	1600
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martin	Chunk	11/7/16	1600

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

***Type**: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670

Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com

CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

Job No.: 611024 / 4007736

Page: 6 of 12

CUSTOMER INFORMATION

COMPANY NAME:

PROJECT CONTACT: Garrett Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME Garrett P.O. No.

SITE ADDRESS:

SAMPLED BY: ☐ EDF Turn Around Time NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time REMARKS Preserved	NO. OF CONT
1	SB075-2.5	11-6-16	856	SO	extract for	1
2	SB076-0.5		915		end cap for	
3	-1.5		917		sample sleeve	
4	-2.5		920			
5	SB077-0.5		1230			
6	-1.5		1231			
7	-2.5		1232			
8	SB079-0.5		1048			
9	-1.5		1049			
10	-2.5		1050			
11	SB080-0.5		1250			
12	-1.5		1251			
13	-2.5		1252			
14	SB081-0.5		1100			
15	-1.5		1101			
16	-2.5		1102			

ANALYSIS REQUIRED

8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	Cr + As 6010B			
									X	X			
									X	X			
									X	X			
									X	X			
									X	X			
									X	X			

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Garrett	CSE	11/7/16	1600
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Murtuh	Chemtek	11/7/16	1600

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CHAIN OF CUSTODY RECORD

611024

Job No.: 1007736

Page: 7 of 12

CUSTOMER INFORMATION

COMPANY NAME:

PROJECT CONTACT: Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.

SITE ADDRESS:

SAMPLED BY: ☐ EDF

Turn Around Time NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	PCBs + As 6010B			
1	SB082-0.5	11-6-16	1040	SO	extract sample			1										X	X			
2	-1.5		1041		from Red Cap																	
3	-2.5		1042		of sample sleeve																	
4	SB083-0.5		946															X	X			
5	-1.5		947																			
6	-2.5		948																			
7	SB084-0.5		436															X	X			
8	-1.5		437																			
9	-2.5		438																			
10	SB085-0.5		823															X	X			
11	-1.5		825																			
12	-2.5		840																			
13	SB086-0.5		1001															X	X			
14	-1.5		1003																			
15	-2.5		1004																			
16	SB087-0.5	11-5-16	803															X	X			

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Garrett	CSC	11/7/16	1600
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Mart	Chemtek	11/7/16	1600

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CHAIN OF CUSTODY RECORD

611024

Job No.: 4007736

CUSTOMER INFORMATION

COMPANY NAME:
PROJECT CONTACT: [illegible] Email:
ADDRESS:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME [illegible] P.O. No.
SITE ADDRESS:
SAMPLED BY: ☐ EDF Turn Around Time NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

ANALYSIS REQUIRED

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	Pb + As 601013			
1	SB087-1.5	11-5-16	805	SO		Extract sample red		1														
2	-2.5		807			cap of sleeve																
3	SB088-0.5		905															X	X			
4	-1.5		906																			
5	-2.5		907																			
6	SB089-0.5		848															X	X			
7	-1.5		850																			
8	-2.5		852																			
9	SB090-0.5		829															X	X			
10	-1.5		831																			
11	-2.5		833																			
12	SB091-0.5		1004															X	X			
13	-1.5		1006																			
14	-2.5		1008																			
15	SB092-0.5		708															X	X			
16	-1.5		710																			

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	[illegible]	Aaron Garrett	CSC	11/7/16	1600
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:	[illegible]	Murtuk	Chemtek	11/7/16	1600

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CHAIN OF CUSTODY RECORD

611024

Job No.: 4007736

Page: 9 of 12

CUSTOMER INFORMATION

COMPANY NAME:

PROJECT CONTACT:

ADDRESS: Gael

CITY, STATE, ZIP

PHONE: FAX:

EMAIL:

PROJECT INFORMATION

PROJECT NAME

SITE ADDRESS: Gael

SAMPLED BY: ☐ EDF TAT ☒ NORM ☐ 24 hr ☐ 48 hr ☐ Other

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	REMARKS	NO. OF CONT	8015M TPH G	8015M TPH D	BTEX/MTBE (8021 B)	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	TRPH (418.1)	COD / TSS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	Pb + As 6010B		
SB092-2.5	11-4-16	712	SO	Target from	1														
SB093-0.5		750		sed cap of sample												X	X		
-1.5		754		sleeve															
-2.5		757																	
SB094-0.5		911														X	X		
-1.5		913																	
-2.5		915																	
SB095-0.5		951														X	X		
-1.5		953																	
-2.5		955																	
SB096-0.5		1205														X	X		
-1.5		1206																	
-2.5		1208																	
SB097-0.5		938														X	X		
-1.5		940																	
-2.5		942																	

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	G Garrett	Aaron Garrett	CSC	11/7/16	1600
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Murtuh	Chemtek	11/7/16	1600

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CHAIN OF CUSTODY RECORD

611024

Job No.: 1600 7736

CUSTOMER INFORMATION

COMPANY NAME:
PROJECT CONTACT:
ADDRESS:
CITY, STATE, ZIP
PHONE: FAX:
EMAIL:

PROJECT INFORMATION

PROJECT NAME
SITE ADDRESS:
SAMPLED BY: EDF TAT ☒ NORM ☐ 24 hr ☐ 48 hr ☐ Other

SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	REMARKS	NO. OF CONT	8015M TPH G	8015M TPH D	BTEX/MTBE (8021 B)	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	TRPH (418.1)	COD / TSS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	As 6010B		
SB098-0.5	11-5-16	1152	SO	extract from	1											X	X		
-1.5		1153		red cap															
-2.5		1155																	
SB099-0.5		1032														X	X		
-1.5		1034																	
-2.5		1036																	
SB100 -0.5		1113														X	X		
-1.5		1116																	
-2.5		1119																	
SB101-0.5		1225														X	X		
-1.5		1226																	
-2.5		1228																	
SB102-0.5		1021														X	X		
-1.5		1023																	
-2.5		1025																	
SB103-0.5		1316														X	X		

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		Aaron Garrett	CSC	11/7/16	1600
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Martin	Chem	11/7/16	1600

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.

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CHAIN OF CUSTODY RECORD

611024

Job No.: 4007736

Page: 11 of 12

CUSTOMER INFORMATION

COMPANY NAME:

PROJECT CONTACT: Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.

SITE ADDRESS:

SAMPLED BY: ☐ EDF

Turn Around Time NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time REMARKS Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCR 8081	Pb + As 6010B			
1	SB103-1.5	11-5-16	1317	SO	extract from	1														
2	-2.5		1318		end cap of															
3	SB104-0.5		1125		sample sleeve											X	X			
4	-1.5		1128																	
5	-2.5		1132																	
6	SB105-0.5		1340													X	X			
7	-1.5		1341																	
8	-2.5		1342																	
9	SB106-0.5		1333													X	X			
10	-1.5		1334																	
11	-2.5		1335																	
12	SB107-0.5		925													X	X			
13	-1.5		930																	
14	-2.5		935																	
15	SB108-0.5		955													X	X			
16	-1.5		900																	

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		Aaron Garrett	CSC	11/7/16	1600
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Murad	Chmtek	11/7/16	1600

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.

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CHAIN OF CUSTODY RECORD

611024
Job No.: 400-7736

CUSTOMER INFORMATION

COMPANY NAME:
PROJECT CONTACT: Email:
ADDRESS:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.
SITE ADDRESS:
SAMPLED BY: ☐ EDF
Turn Around Time NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time REMARKS Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	Pb + As 6010B	SVOCs 8270C		
1	SB108-2.5	11-5-14	905	SO	extract from	1														
2	SB109-0.5		806		red cap of										X	AC		X		
3	-1.5		812		sample sleeve															
4	-2.5		817																	
5	SB038-0.5		1410													X	X			
6	-1.5		1413																	
7	-2.5		1416																	
8	SB044-0.5		1420													X	X			
9	-1.5		1422																	
10	-2.5		1424																	
11	SB045-0.5		1402													X	X			
12	-1.5		1404																	
13	-2.5		1408																	
14																				
15																				
16																				

ANALYSIS REQUIRED

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		Aaron Garrett	CSC	11/7/14	1600
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Mark	Chemtek	11/7/14	1600

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

***Type**: **SO**-Soil **GW**-Ground Water **WW**-Waste Water **AQ**-Aqueous **A**-Air **OT**-Other

CHEMTEK
environmental laboratories
ELAP: 1435
LACSD: 10167
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: CSC
Project No. 4007736
Project Site: NHHS
5231 Colfax Ave
LA, CA
Attention: Aarron Garrett

Job No: 611089
Report Date: 01/31/17
Date Received: 11/21/16
Number of Samples: 93
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB001-10	11/19/16	611089-01A
SB001-15	11/19/16	611089-02A
SB001-20	11/19/16	611089-03A
SB010-10	11/19/16	611089-04A
SB010-15	11/19/16	611089-05A
SB011-10	11/20/16	611089-06A
SB011-15	11/20/16	611089-07A
SB012-10	11/20/16	611089-08A
SB012-15	11/20/16	611089-09A
SB013-10	11/20/16	611089-10A
SB013-15	11/20/16	611089-11A
SB030-0.5	11/20/16	611089-12A
SB030-0.5 DUP	11/20/16	611089-13A
SB030-1.5	11/20/16	611089-14A
SB030-1.5 DUP	11/20/16	611089-15A
SB030-2.5	11/20/16	611089-16A
SB030-2.5 DUP	11/20/16	611089-17A
SB031-0.5	11/20/16	611089-18A
SB031-1.5	11/20/16	611089-19A
SB031-2.5	11/20/16	611089-20A
SB032-0.5	11/20/16	611089-21A
SB032-1.5	11/20/16	611089-22A
SB032-2.5	11/20/16	611089-23A
SB033-0.5	11/20/16	611089-24A
SB033-1.5	11/20/16	611089-25A
SB033-2.5	11/20/16	611089-26A
SB034-0.5	11/20/16	611089-27A
SB034-1.5	11/20/16	611089-28A
SB034-2.5	11/20/16	611089-29A
SB035-0.5	11/20/16	611089-30A
SB035-1.5	11/20/16	611089-31A
SB035-2.5	11/20/16	611089-32A
SB036-0.5	11/20/16	611089-33A
SB036-1.5	11/20/16	611089-34A
SB036-2.5	11/20/16	611089-35A
SB037-0.5	11/20/16	611089-36A
SB037-1.5	11/20/16	611089-37A
SB037-2.5	11/20/16	611089-38A
SB041-0.5	11/20/16	611089-39A
SB041-1.5	11/20/16	611089-40A
SB041-2.5	11/20/16	611089-41A
SB042-0.5	11/19/16	611089-42A
SB042-1.5	11/19/16	611089-43A
SB042-2.5	11/19/16	611089-44A
SB043-0.5	11/19/16	611089-45A
SB043-0.5 DUP	11/19/16	611089-46A
SB043-1.5	11/19/16	611089-47A
SB043-1.5 DUP	11/19/16	611089-48A
SB043-2.5	11/19/16	611089-49A
SB043-2.5 DUP	11/19/16	611089-50A
SB046-0.5	11/19/16	611089-51A
SB046-1.5	11/19/16	611089-52A
SB046-2.5	11/19/16	611089-53A
SB047-0.5	11/19/16	611089-54A

CHEMTEK
environmental laboratories
ELAP: 1435
LACSD: 10167
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Client: CSC
Project No. 4007736
Project Site: NHHS
5231 Colfax Ave
LA, CA
Attention: Aarron Garrett

Job No: 611089
Report Date: 01/31/17
Date Received: 11/21/16
Number of Samples: 99
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB048-0.5	11/19/16	611089-55A
SB048-1.5	11/19/16	611089-56A
SB048-2.5	11/19/16	611089-57A
SB051-0.5	11/19/16	611089-58A
SB051-1.5	11/19/16	611089-59A
SB051-2.5	11/19/16	611089-60A
SB052-0.5	11/19/16	611089-61A
SB052-1.5	11/19/16	611089-62A
SB052-2.5	11/19/16	611089-63A
SB053-0.5	11/20/16	611089-64A
SB053-0.5 DUP	11/20/16	611089-65A
SB053-1.5	11/20/16	611089-66A
SB053-1.5 DUP	11/20/16	611089-67A
SB053-2.5	11/20/16	611089-68A
SB053-2.5 DUP	11/20/16	611089-69A
SB054-0.5	11/20/16	611089-70A
SB054-1.5	11/20/16	611089-71A
SB054-2.5	11/20/16	611089-72A
SB058-0.5	11/20/16	611089-73A
SB058-1.5	11/20/16	611089-74A
SB058-2.5	11/20/16	611089-75A
SB059-0.5	11/20/16	611089-76A
SB059-1.5	11/20/16	611089-77A
SB059-2.5	11/20/16	611089-78A
SB060-0.5	11/20/16	611089-79A
SB060-1.5	11/20/16	611089-80A
SB060-2.5	11/20/16	611089-81A
SB061-0.5	11/19/16	611089-82A
SB061-1.5	11/19/16	611089-83A
SB061-2.5	11/19/16	611089-84A
SB063-0.5	11/19/16	611089-85A
SB063-1.5	11/19/16	611089-86A
SB063-2.5	11/19/16	611089-87A
SB070-0.5	11/19/16	611089-88A
SB070-1.5	11/19/16	611089-89A
SB070-0.5	11/19/16	611089-90A
SB070-1.5	11/19/16	611089-91A
SB070-2.5	11/19/16	611089-92A
SB078-0.5	11/19/16	611089-93A
SB078-1.5	11/19/16	611089-94A
SB078-2.5	11/19/16	611089-95A
SB078-2.5 DUP	11/19/16	611089-96A
SB029-0.5	11/20/16	611089-97A
SB029-1.5	11/20/16	611089-98A
SB029-2.5	11/20/16	611089-99A

Reviewed and Approved:



For

Michael C.C. Lu
Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: CSC | **Project No.** 4007736 | **Job No:** 611089
Project Site: NHHS | **Report Date:** 01/31/17
EPA Method : 8260B | 5231 Colfax Ave | **Date of Sample:** 11/19-20/16
Sample Matrix: Soil | **Units:** ppb or µg/kg | **Date Received:** 11/21/16

Client Sample ID:	SB010-10	SB010-15	SB011-10	SB-11-15	SB012-10	SB012-15	SB013-10	SB013-15	Detection
Dilution Factor:	1	0.9	1	1	1	0.9	1	0.9	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	1
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	1
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	2
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	1
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	1
cis-1,2 Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	1
Trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	1
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	1
Cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	1
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	1
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	1
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	1
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	5
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	1
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1
Tetrachloroethene(PCE)	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene(TCE)	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	1
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	1
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	2
Ethanol	ND	ND	ND	ND	ND	ND	ND	ND	250
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	1
ETBE	ND	ND	ND	ND	ND	ND	ND	ND	1
DIPE	ND	ND	ND	ND	ND	ND	ND	ND	1
TAME	ND	ND	ND	ND	ND	ND	ND	ND	1
TBA	ND	ND	ND	ND	ND	ND	ND	ND	20
MEK	ND	ND	ND	ND	ND	ND	ND	ND	10
MIBK	ND	ND	ND	ND	ND	ND	ND	ND	10
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	10
Ethyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	1
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	50
Analysis Date:	11/28/16	11/28/16	11/28/16	11/28/16	11/28/16	11/28/16	11/28/16	11/28/16	

ND: Not Detected Below (DF x Detection Limit) **DF: Dilution Factor**

CHEMTEK
environmental laboratories

13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
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Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

EPA Method: 8015M
units: mg/kg or ppm

Job No: 611089
Report Date: 01/31/17
Date of Sample: 11/19-20/16
Date Received: 11/21/16
Sample Matrix: Soil

Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
SB001-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB001-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB010-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB010-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB011-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB011-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB012-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB012-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB013-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB013-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Method Blank	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Sample Date:		11/19-20/16			11/19-20/16			11/19-20/16		
Analysis Date:		11/28/16			11/28/16			11/28/16		

ND : Not detected at or above DLR
DLR: Detection Limit for Reporting Purposes

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Certificate of Analysis

Client: CSC | **Project No.** 4007736 | **Job No:** 611089
Project Site: NHHS | **Report Date:** 01/31/17
EPA Method : 8270C PAH SIM | 5231 Colfax Ave | **Date of Sample:** 11/19-20/16
Sample Matrix: Soil | **Units:** ppb or µg/kg | **Date Received:** 11/21/16

Client Sample ID:	SB011-10	SB-11-15	SB012-10	SB012-15	SB013-10	SB013-15	Detection
Dilution Factor:	1	1	1	1	1	1	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
1-Methlynaphthalene	ND	ND	ND	ND	ND	ND	20
2-Methlynaphthalene	ND	ND	ND	ND	ND	ND	20
Acenaphthene	ND	ND	ND	ND	ND	ND	20
Acenaphthylene	ND	ND	ND	ND	ND	ND	20
Anthracene	ND	ND	ND	ND	ND	ND	20
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	20
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	20
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	20
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	20
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	20
Chrysene	ND	ND	ND	ND	ND	ND	20
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	20
Fluoranthene	ND	ND	ND	ND	ND	ND	20
Fluorene	ND	ND	ND	ND	ND	ND	20
Indeno(1,2,3-C,D)Pyrene	ND	ND	ND	ND	ND	ND	20
Naphthalene	ND	ND	ND	ND	ND	ND	20
Phenanthrene	ND	ND	ND	ND	ND	ND	20
Pyrene	ND	ND	ND	ND	ND	ND	20
Analysis Date:	12/26/16	12/26/16	12/26/16	12/26/16	12/26/16	12/26/16	

ND: Not Detected Below (DF x Detection Limit) **DF: Dilution Factor**

CHEMTEK
environmental laboratories
3554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 611089
Report Date: 01/31/17
Date of Sample: 11/19-20/16
Date Received: 11/21/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

	Client Sample ID:		Arsenic	Lead	Analysis Date
	DF		1	1	
Analyte	*Detection Limit*		*2.00*	*2.00*	
SB030-0.5	1	ppm	ND	3.59	12/2/2016
SB031-0.5	1	ppm	ND	ND	12/2/2016
SB032-0.5	1	ppm	ND	ND	12/2/2016
SB033-0.5	1	ppm	ND	ND	12/2/2016
SB034-0.5	1	ppm	ND	19.6	12/2/2016
SB035-0.5	1	ppm	ND	9.07	12/2/2016
SB036-0.5	1	ppm	ND	26.4	12/2/2016
SB037-0.5	1	ppm	ND	18.6	12/2/2016
SB041-0.5	1	ppm	32.2	64.7	12/2/2016
SB042-0.5	1	ppm	ND	2.86	12/2/2016
SB043-0.5	1	ppm	ND	168	12/2/2016
SB046-0.5	1	ppm	ND	11.7	12/2/2016
SB047-0.5	1	ppm	ND	19.8	12/2/2016
SB048-0.5	1	ppm	ND	62.2	12/2/2016
SB051-0.5	1	ppm	ND	96.7	12/2/2016
SB052-0.5	1	ppm	ND	ND	12/2/2016
SB053-0.5	1	ppm	ND	2.70	12/2/2016
SB054-0.5	1	ppm	ND	ND	12/2/2016
SB058-0.5	1	ppm	ND	ND	12/2/2016
SB059-0.5	1	ppm	ND	ND	12/2/2016
SB060-0.5	1	ppm	ND	8.32	12/2/2016
SB061-0.5	1	ppm	15.7	12.9	12/2/2016
SB063-0.5	1	ppm	8.58	30.5	12/2/2016
SB070-0.5	1	ppm	ND	11.6	12/2/2016
SB029-0.5	1	ppm	ND	29.7	12/2/2016
SB078-0.5	1	ppm	ND	7.59	12/2/2016
SB041-1.5	1	ppm	25.9	3.70	12/13/2016
SB043-1.5	1	ppm	ND	12.6	12/13/2016
SB051-1.5	1	ppm	ND	25.9	12/13/2016
SB061-1.5	1	ppm	ND	ND	12/13/2016
SB030-0.5 dup	1	ppm	ND	3.33	1/20/2017
SB041-2.5	1	ppm	ND	ND	1/20/2017
SB043-0.5	1	ppm	ND	12.4	1/20/2017
SB053-0.5	1	ppm	ND	ND	1/20/2017
SB078-0.5	1	ppm	4.97	10.3	1/31/2017
SB109-1.5	1	ppm	3.40	132	1/31/2017
SB041-1.5	1	ppm	25.90	3.70	1/20/2017
SB041-2.5	1	ppm	ND	ND	12/13/2016

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

CHEMTEK
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13554 Larwin Cir., Santa Fe Springs, CA 90670
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Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 611089
Report Date: 01/31/17
Date of Sample: 11/19-20/16
Date Received: 11/21/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB011-10	SB011-15	SB012-10	SB012-15	SB013-10	SB013-15	Reporting
Dilution Factor:	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	ND	ND	ND	2.00
Barium	140	101	128	167	60.1	97.9	1.00
Beryllium	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	1.00
Chromium	17.7	16.7	16.3	25.4	8.50	9.44	1.00
Cobalt	10.5	9.08	9.57	12.4	4.25	2.78	2.00
Copper	22.3	17.8	17.5	23.9	8.97	38.9	2.00
Lead	ND	ND	ND	ND	ND	ND	2.00
Molybdenum	ND	ND	ND	ND	ND	ND	2.00
Nickel	13.7	12.1	12.8	17.8	5.29	5.64	2.00
Selenium	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	2.00
Vanadium	41.1	38.1	38.5	48.9	30.2	25.1	2.00
Zinc	47.7	40.8	42.4	55.5	19.2	54.8	5.00
Analysis Date:	12/5/16	12/5/16	12/5/16	12/5/16	12/5/16	12/5/16	

EPA Method: 7470A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB011-10	SB011-15	SB012-10	SB012-15	SB013-10	SB013-15	Reporting
Dilution Factor:	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Mercury	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	12/5/16	12/5/16	12/5/16	12/5/16	12/5/16	12/5/16	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 12/05/16
QC Lab ID: 611126-1A
Units: ppm
Job No: 611089

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	106.0	102.0	3.8%	30	70-130
Arsenic	ND	1.00	97.0	99.0	2.0%	30	70-130
Barium	ND	1.00	103.0	99.0	4.0%	30	70-130
Beryllium	ND	1.00	95.0	89.0	6.5%	30	70-130
Cadmium	ND	1.00	105.0	98.0	6.9%	30	70-130
Chromium	ND	1.00	113.0	101.0	11.2%	30	70-130
Cobalt	ND	1.00	103.0	103.0	0.0%	30	70-130
Copper	ND	1.00	103.0	100.0	3.0%	30	70-130
Lead	ND	1.00	104.0	98.0	5.9%	30	70-130
Molybdenum	ND	1.00	103.0	102.0	1.0%	30	70-130
Nickel	ND	1.00	104.0	102.0	1.9%	30	70-130
Selenium	ND	1.00	104.0	101.0	2.9%	30	70-130
Silver	ND	1.00	96.0	94.0	2.1%	30	70-130
Thallium	ND	1.00	99.0	99.0	0.0%	30	70-130
Vanadium	ND	1.00	104.0	103.0	1.0%	30	70-130
Zinc	ND	1.00	102.0	99.0	3.0%	30	70-130

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QC Analysis Date: 11/28/16
QC Lab ID: 611105-10A
Units: ppb
Job No: 611089

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	103.4	108.3	4.6%	30	70-130
Benzene	ND	25	87.7	88.1	0.5%	30	70-130
Trichloroethylene	ND	25	97.1	94.2	3.0%	30	70-130
Toluene	ND	25	97.0	94.0	3.1%	30	70-130
Chlorobenzene	ND	25	97.7	93.6	4.3%	30	70-130

QC Analysis Date: 11/28/16
QC Lab ID: 611105-10A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8260B (TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	92.3	91.6	0.8%	30	70-130

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670

Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com

CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

611089

Job No.: 4007736

Page: 1 of 6

CUSTOMER INFORMATION

COMPANY NAME: CSC

PROJECT CONTACT: A Garrett Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME NHHS P.O. No.

SITE ADDRESS: 5231 Colfax Ave LA

SAMPLED BY: EDF Turn Around Time NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT
1	SB001-10	11-19-16	1331	SO	extract from sal cap			1
2	-15		1334					
3	-20		1340					
4	SB010-10		954				5035	
5	-15		959					
6	SB011-10	11-20-16	1310					
7	-15		1315					
8	SB012-10		1330					
9	-15		1335					
10	SB013-10		1354					
11	-15		1409					
12	SB030-0.5		828					2
13	-1.5		829					
14	XDI -2.5		830					
15	SB031-0.5		840					
16	-1.5		841					1

ANALYSIS REQUIRED

	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	Pb + As 6010B	PAHs 8270SIM	PCBs 8082	
1			X										X	
2			X										X	
3														
4			X	X										
5			X	X										
6			X	X					X			X		
7			X	X					X			X		
8			X	X					X			X		
9			X	X					X			X		
10			X	X					X			X		
11			X	X					X			X		
12										X	X			
13														
14														
15										X	X		X	
16														

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Garrett	CSC	11-21-16	900
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martinez	Chemtek	11-21-16	9am

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.
13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

611089

Job No.: 4007736

CUSTOMER INFORMATION

COMPANY NAME: CSC
PROJECT CONTACT: A Garrett Email:
ADDRESS:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME NHHS P.O. No.
SITE ADDRESS: 5231 Colfax
SAMPLED BY: ☐ EDF Turn Around Time NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

ANALYSIS REQUIRED

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	As + Pb 6010B			
1	SB031-2.5	11-20-16	842	SO	extract from red cap			1														
2	SB032-0.5		858															X	X			
3	-1.5		859																			
4	-2.5		900																			
5	SB033-0.5		1010															X	X			
6	-1.5		1011																			
7	-2.5		1012																			
8	SB034-0.5		925															X	X			
9	-1.5		926																			
10	-2.5		927																			
11	SB035-0.5		809															X	X			
12	-1.5		810																			
13	-2.5		811																			
14	SB036-0.5		935															X	X			
15	-1.5		936																			
16	-2.5		937																			

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	[signature]	Aaron Garrett	CSC	11-21-16	900
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:	[signature]	Murth L	Chemtek	11-21-16	900

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.
13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

Job No.: 611089 / 4007736

Page: 3 of 6

CUSTOMER INFORMATION

COMPANY NAME: CSC
PROJECT CONTACT: AGarrett Email:
ADDRESS:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: NHHS P.O. No.
SITE ADDRESS: 5231 Colfax Ave LA
SAMPLED BY: EDF
Turn Around Time: NORM [x] 24 hr [ ] 48 hr [ ] Other [ ]

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	CAM + Ars 6010B	PCBs 8082		
1	SB037-0.5	11-21-16		SO		extract for red cap		1										X	X			
2	-1.5			SO																		
3	-2.5			SO																		
4	SB041-0.5			SO														X	X			
5	-1.5			SO																		
6	-2.5			SO																		
7	SB042-0.5		11-19-16	SO														X	X	X		
8	-1.5			SO																		
9	-2.5			SO																		
10	SB043-0.5			SO				2										X	X			
11	DUP -1.5			SO				1														
12	-2.5			SO																		
13	SB046-0.5			SO														X	X			
14	-1.5			SO																		
15	-2.5			SO																		
16	SB047-0.5			SO														X	X			

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Garrett	CSC	11-21-16	900
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Monta L	Chemtek	11-21-16	900

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CHAIN OF CUSTODY RECORD

611089
Job No.: 400773 G

Page: 4 of 6

CUSTOMER INFORMATION

COMPANY NAME: CSC
PROJECT CONTACT: A Garcia Email:
ADDRESS:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME NHHS P.O. No.
SITE ADDRESS: 5231 Colfax Ave
SAMPLED BY: ☐ EDF
Turn Around Time NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	PB + As 6010B	PCBs 8082		
1	SB048-0.5	11-9-16	1120	SO	extract from red cap			1										X	X			
2	-1.5		1125																			
3	-2.5		1130																			
4	SB051-0.5		1135															X	X	X		
5	-1.5		1140																			
6	-2.5		1145																			
7	SB052-0.5		1148															X	X			
8	-1.5		1153																			
9	-2.5		1159																			
10	SB053-0.5	11-20-16	1110					2										X	X			
11	+DUP -1.5		1111					1														
12	-2.5		1112																			
13	SB054-0.5		1125					1										X	X			
14	-1.5		1126																			
15	-2.5		1127					1														
16	SB058-0.5		1058															X	X			

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		Alex Garcia	CSC	11-21-16	900
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Martin L	Chemtek	11-21-16	900

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CHAIN OF CUSTODY RECORD

Job No.: 611089 / 400773G

CUSTOMER INFORMATION

COMPANY NAME: CSC
PROJECT CONTACT: AGarrett Email:
ADDRESS:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME NHHS P.O. No.
SITE ADDRESS: 5231 Colfax Ave
SAMPLED BY: EDF
Turn Around Time NORM [X] 24 hr [ ] 48 hr [ ] Other [ ]

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	Pb + As 6010B			
1	SB058-1.5	11-20-16	1059	SO	extract from sal cup			1														
2	-2.5		1100																			
3	SB059-0.5		1140															X	X			
4	-1.5		1141																			
5	-2.5		1142																			
6	SB060-0.5		1103															X	X			
7	-1.5		1104																			
8	-2.5		1105																			
9	SB061-0.5	11-19-16	1140															X	X			
10	-1.5		1141																			
11	-2.5		1142																			
12	SB063-0.5		1320															X	X			
13	-1.5		1321																			
14	-2.5		1322																			
15	SB070-0.5		1420															X	X			
16	-1.5		1421																			

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Garrett	CSC	11-21-16	900
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martin	Chemtek	11-21-16	900

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

*Type: **SO**-Soil **GW**-Ground Water **WW**-Waste Water **AQ**-Aqueous **A**-Air **OT**-Other

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CHAIN OF CUSTODY RECORD

611089

Job No.: 400773 6

Page: 6 of 6

CUSTOMER INFORMATION

COMPANY NAME: CSC
PROJECT CONTACT: AGarrett Email:
ADDRESS:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME NHHS P.O. No.
SITE ADDRESS: 5231 Colfax Ave LA
SAMPLED BY: EDF
Turn Around Time NORM 24 hr 48 hr Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs 8081	Pb + As 6010B	PCBs 8082		
1	SB070-0.5	11-19-16	1420	SO		extract sample		1										X	X			
2	-1.5		1421			Gross and		1														
3	-2.5		1422			cap		1														
4	SB078-0.5		1402					2										X	X			
5	+ Dup -1.5		1403					1														
6	-2.5		1404					1														
7	SB029-0.5	11-20-16	0818					1										X	X	X		
8	-1.5		0825					1														
9	-2.5		0830					1														
10																						
11																						
12																						
13																						
14																						
15																						
16																						

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		Aaron Garrett	CSC	11-21-16	900
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Martin L	Chemtek	11-21-16	900

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

*Type: **SO**-Soil **GW**-Ground Water **WW**-Waste Water **AQ**-Aqueous **A**-Air **OT**-Other

CHEMTEK
environmental laboratories
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LACSD: 10167
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Certificate of Analysis

Client: CSC
Project No. 4007736
Project Site: NHHS
5231 Colfax Ave
LA, CA
Attention: Aarron Garrett

Job No: 612015
Report Date: 12/29/16
Date Received: 12/05/16
Number of Samples: 46
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB14-10	12/03/16	612015-01A
SB14-15	12/03/16	612015-02A
SB14-15 DUP	12/03/16	612015-03A
SB15-5	12/03/16	612015-04A
SB15-10	12/03/16	612015-05A
SB15-15	12/03/16	612015-06A
SB15-20	12/03/16	612015-07A
SB15-25	12/03/16	612015-08A
SB15-30	12/03/16	612015-09A
SB15-35	12/03/16	612015-10A
SB15-40	12/03/16	612015-11A
SB16-5	12/03/16	612015-12A
SB16-10	12/03/16	612015-13A
SB16-15	12/03/16	612015-14A
SB16-15 DUP	12/03/16	612015-15A
SB16-20	12/03/16	612015-16A
SB16-25	12/03/16	612015-17A
SB16-30	12/03/16	612015-18A
SB16-35	12/03/16	612015-19A
SB16-40	12/03/16	612015-20A
SB17-5	12/03/16	612015-21A
SB17-10	12/03/16	612015-22A
SB17-10 DUP	12/03/16	612015-23A
SB17-15	12/03/16	612015-24A
SB17-20	12/03/16	612015-25A
SB17-25	12/03/16	612015-26A
SB17-30	12/03/16	612015-27A
SB17-35	12/03/16	612015-28A
SB17-40	12/03/16	612015-29A
SB19-5	12/03/16	612015-30A
SB19-10	12/03/16	612015-31A
SB19-15	12/03/16	612015-32A
SB19-20	12/03/16	612015-33A
SB19-25	12/03/16	612015-34A
SB19-30	12/03/16	612015-35A
SB19-30 DUP	12/03/16	612015-36A
SB19-35	12/03/16	612015-37A
SB19-40	12/03/16	612015-38A
SB20-5	12/03/16	612015-39A
SB20-10	12/03/16	612015-40A
SB20-15	12/03/16	612015-41A
SB20-20	12/03/16	612015-42A
SB20-25	12/03/16	612015-43A
SB20-30	12/03/16	612015-44A
SB20-35	12/03/16	612015-45A
SB20-40	12/03/16	612015-46A

Reviewed and Approved:

Michael C.C. Lu
For Laboratory Director

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Certificate of Analysis

Client: CSC | **Project No.** 4007736 | **Job No:** 612015
Project Site: NHHS | **Report Date:** 12/29/16
EPA Method : 8260B | 5231 Colfax Ave | **Date of Sample:** 12/03/16
Sample Matrix: Soil | **Units:** ppb or µg/kg | **Date Received:** 12/05/16

Client Sample ID:	SB14-10	SB14-15	SB14-15DUP	SB15-5	SB15-10	SB15-15	SB15-20	SB15-25	SB15-30	SB15-35	Detection
Dilution Factor:	0.9	0.9	1	1	0.9	0.9	0.9	0.9	0.9	0.9	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
cis-1,2 Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Tetrachloroethene(PCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene(TCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Ethanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
ETBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
DIPE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
TAME	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
TBA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
MEK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
MIBK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Ethyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Analysis Date:	12/9/16	12/9/16	12/9/16	12/9/16	12/9/16	12/9/16	12/9/16	12/9/16	12/9/16	12/9/16	

ND: Not Detected Below (DF x Detection Limit) **DF: Dilution Factor**

CHEMTEK
environmental laboratories
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Certificate of Analysis

Client: CSC | **Project No.** 4007736 | **Job No:** 612015
Project Site: NHHS | **Report Date:** 12/29/16
EPA Method : 8260B | 5231 Colfax Ave | **Date of Sample:** 12/03/16
Sample Matrix: Soil | **Units:** ppb or µg/kg | **Date Received:** 12/05/16

Client Sample ID:	SB15-40	SB16-5	SB16-10	SB16-15	SB16-15 DUP	SB16-20	SB16-25	SB16-30	SB16-35	SB16-40	Detection
Dilution Factor:	1	1	0.9	1	1	1	1	1	1	0.9	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
cis-1,2 Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Tetrachloroethene(PCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene(TCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Ethanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
ETBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
DIPE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
TAME	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
TBA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
MEK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
MIBK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Ethyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Analysis Date:	12/9/16	12/9/16	12/9/16	12/9/16	12/10/16	12/9/16	12/9/16	12/9/16	12/9/16	12/9/16	

ND: Not Detected Below (DF x Detection Limit) **DF: Dilution Factor**

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: CSC | **Project No.** 4007736 | **Job No:** 612015
Project Site: NHHS | **Report Date:** 12/29/16
EPA Method : 8260B | 5231 Colfax Ave | **Date of Sample:** 12/03/16
Sample Matrix: Soil | **Units:** ppb or µg/kg | **Date Received:** 12/05/16

Client Sample ID:	SB17-5	SB17-10	SB17-10 DUP	SB17-15	SB7-20	SB17-25	SB17-30	SB17-35	SB17-40	SB19-5	Detection
Dilution Factor:	1	0.9	1	0.9	0.9	1	0.9	1	1	0.9	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
cis-1,2 Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Tetrachloroethene(PCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene(TCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Ethanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
ETBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
DIPE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
TAME	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
TBA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
MEK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
MIBK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Ethyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Analysis Date:	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	

ND: Not Detected Below (DF x Detection Limit) **DF: Dilution Factor**

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
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Certificate of Analysis

Client: CSC | **Project No.** 4007736 | **Job No:** 612015
Project Site: NHHS | **Report Date:** 12/29/16
EPA Method : 8260B | 5231 Colfax Ave | **Date of Sample:** 12/03/16
Sample Matrix: Soil | **Units:** ppb or µg/kg | **Date Received:** 12/05/16

Client Sample ID:	SB19-10	SB19-15	SB19-20	SB19-25	SB19-30	SB19-30 DUP	SB19-35	SB19-40	SB20-5	SB20-10	Detection
Dilution Factor:	1	1	0.9	0.9	0.8	1	0.9	1	0.9	0.9	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
cis-1,2 Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Tetrachloroethene(PCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene(TCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Ethanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
ETBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
DIPE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
TAME	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
TBA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
MEK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
MIBK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Ethyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Analysis Date:	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	

ND: Not Detected Below (DF x Detection Limit) **DF: Dilution Factor**

CHEMTEK
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Certificate of Analysis

Client: CSC | **Project No.** 4007736 | **Job No:** 612015
Project Site: NHHS | **Report Date:** 12/29/16
EPA Method : 8260B | 5231 Colfax Ave | **Date of Sample:** 12/03/16
Sample Matrix: Soil | **Units:** ppb or µg/kg | **Date Received:** 12/05/16

Client Sample ID:	SB20-15	SB20-20	SB20-25	SB20-30	SB20-35	SB20-40	Detection
Dilution Factor:	1	0.9	1	1	0.9	0.9	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
Benzene	ND	ND	ND	ND	ND	ND	1
Bromobenzene	ND	ND	ND	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	1
Bromoform	ND	ND	ND	ND	ND	ND	1
Bromomethane	ND	ND	ND	ND	ND	ND	1
n-Butylbenzene	ND	ND	ND	ND	ND	ND	1
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	1
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	1
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	1
Chlorobenzene	ND	ND	ND	ND	ND	ND	1
Chloroethane	ND	ND	ND	ND	ND	ND	1
Chloroform	ND	ND	ND	ND	ND	ND	1
Chloromethane	ND	ND	ND	ND	ND	ND	1
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	1
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	1
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	2
Dibromochloromethane	ND	ND	ND	ND	ND	ND	1
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	1
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	1
Dibromomethane	ND	ND	ND	ND	ND	ND	1
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	1
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	1
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	1
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	1
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	1
cis-1,2 Dichloroethene	ND	ND	ND	ND	ND	ND	1
Trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	1
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	1
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	1
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	1
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	1
Cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	1
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	1
Ethylbenzene	ND	ND	ND	ND	ND	ND	1
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	1
Isopropylbenzene	ND	ND	ND	ND	ND	ND	1
4-Isopropyltoluene	ND	ND	ND	ND	ND	ND	1
Methylene Chloride	ND	ND	ND	ND	ND	ND	5
Naphthalene	ND	ND	ND	ND	ND	ND	1
n-propylbenzene	ND	ND	ND	ND	ND	ND	1
Styrene	ND	ND	ND	ND	ND	ND	1
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	1
Tetrachloroethene(PCE)	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	1
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	1
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	1
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	1
Trichloroethene(TCE)	ND	ND	ND	ND	ND	ND	1
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	1
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	1
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	1
Vinyl Chloride	ND	ND	ND	ND	ND	ND	1
Total Xylenes	ND	ND	ND	ND	ND	ND	2
Ethanol	ND	ND	ND	ND	ND	ND	250
MTBE	ND	ND	ND	ND	ND	ND	1
ETBE	ND	ND	ND	ND	ND	ND	1
DIPE	ND	ND	ND	ND	ND	ND	1
TAME	ND	ND	ND	ND	ND	ND	1
TBA	ND	ND	ND	ND	ND	ND	20
MEK	ND	ND	ND	ND	ND	ND	10
MIBK	ND	ND	ND	ND	ND	ND	10
2-Hexanone	ND	ND	ND	ND	ND	ND	10
Ethyl Acetate	ND	ND	ND	ND	ND	ND	1
Acetone	ND	ND	ND	ND	ND	ND	50
Analysis Date:	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	12/10/16	

ND: Not Detected Below (DF x Detection Limit) **DF: Dilution Factor**

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
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Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

EPA Method: 8015M
units: mg/kg or ppm

Job No: 612015
Report Date: 12/29/16
Date of Sample: 12/03/16
Date Received: 12/05/16
Sample Matrix: Soil

	Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
	SB14-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB14-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB14-15 DUP	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB15-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB15-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB15-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB15-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB15-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB15-30	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB15-35	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB15-40	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB16-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB16-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB16-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB16-15 DUP	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB16-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
I	SB16-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB16-30	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB16-35	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB16-40	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB17-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB17-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB17-10 DUP	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB17-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB17-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB17-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB17-30	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB17-35	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
I	SB17-40	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB19-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
I	SB19-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
I	SB19-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB19-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB19-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB19-30	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB19-30 DUP	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB19-35	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB19-40	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB20-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB20-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB20-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB20-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB20-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB20-30	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB20-35	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	SB20-40	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	Method Blank	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
	Sample Date:		12/03/16			12/03/16			12/03/16		
	Analysis Date:		12/09-10/16			12/13-16/16			12/13-16/16		

ND : Not detected at or above DLR **DLR: Detection Limit for Reporting Purposes**

CHEMTEK
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13554 Larwin Cir., Santa Fe Springs, CA 90670
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Certificate of Analysis

Client: CSC | **Project No.** 4007736 | **Job No:** 612015
Project Site: NHHS | **Report Date:** 12/29/16
EPA Method : 8270C PAH SIM | 5231 Colfax Ave | **Date of Sample:** 12/03/16
Sample Matrix: Soil | **Units:** ppb or µg/kg | **Date Received:** 12/05/16

Client Sample ID:	SB14-10	SB14-15	SB14-15 DUP	SB15-5	SB15-10	SB15-15	SB15-20	SB15-25	SB15-30	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
1-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
2-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Indeno(1,2,3-C,D)Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Analysis Date:	12/26/16	12/26/16	12/28/16	12/26/16	12/26/16	12/26/16	12/26/16	12/27/16	12/27/16	

Client Sample ID:	SB15-35	SB15-40	SB16-5	SB16-10	SB16-15	SB16-15 DUP	SB16-20	SB16-25	SB16-30	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
1-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
2-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Indeno(1,2,3-C,D)Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Analysis Date:	12/27/16	12/27/16	12/27/16	12/27/16	12/27/16	12/18/16	12/27/16	12/27/16	12/27/16	

ND: Not Detected Below (DF x Detection Limit) **DF: Dilution Factor**

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
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Certificate of Analysis

Client: CSC | **Project No.** 4007736 | **Job No:** 612015
Project Site: NHHS | **Report Date:** ######
EPA Method : 8270C PAH SIM | 5231 Colfax Ave | **Date of Sample:** ######
Sample Matrix: Soil | **Units:** ppb or µg/kg | **Date Received:** ######

Client Sample ID:	SB16-35	SB16-40	SB17-5	SB17-10	SB17-10 DUP	SB17-15	SB17-20	SB17-25	SB17-30	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
1-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
2-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Indeno(1,2,3-C,D)Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Analysis Date:	12/27/16	12/27/16	12/27/16	12/27/16	12/28/16	12/27/16	12/27/16	12/27/16	12/27/16	

Client Sample ID:	SB17-35	SB17-40	SB19-5	SB19-10	SB19-15	SB19-20	SB19-25	SB19-30	SB19-30 DUP	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
1-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
2-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Indeno(1,2,3-C,D)Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Analysis Date:	12/27/16	12/27/16	12/27/16	12/27/16	12/27/16	12/27/16	12/28/16	12/28/16	12/28/16	

ND: Not Detected Below (DF x Detection Limit) **DF: Dilution Factor**

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
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Certificate of Analysis

Client: CSC | **Project No.** 4007736 | **Job No:** 612015
Project Site: NHHS | **Report Date:** 12/29/16
EPA Method : 8270C PAH SIM | 5231 Colfax Ave | **Date of Sample:** 12/03/16
Sample Matrix: Soil | **Units:** ppb or µg/kg | **Date Received:** 12/05/16

Client Sample ID:	SB19-35	SB19-40	SB20-5	SB20-10	SB20-15	SB20-20	SB20-25	SB20-30	SB20-35	SB20-40	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	1	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
1-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
2-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Indeno(1,2,3-C,D)Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Analysis Date:	12/28/16	12/28/16	12/28/16	12/28/16	12/28/16	12/28/16	12/28/16	12/28/16	12/28/16	12/28/16	

ND: Not Detected Below (DF x Detection Limit) **DF: Dilution Factor**

CHEMTEK
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13554 Larwin Cir., Santa Fe Springs, CA 90670
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Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 612015
Report Date: 12/29/16
Date of Sample: 12/03/16
Date Received: 12/05/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB14-10	SB14-15	SB14-15 DUP	SB15-5	SB15-10	SB15-15	SB15-20	SB15-25	SB15-30	Reporting
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Barium	140	147	146	111	132	127	70.6	50.8	179	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	20.6	17.2	21.7	29.9	18.5	20.6	11.9	7.60	22.5	1.00
Cobalt	13.3	12.3	13.5	10.8	11.9	12.1	8.19	5.84	17.6	2.00
Copper	25.9	19.7	23.8	20.4	21.7	22.2	13.2	9.30	32.0	2.00
Lead	4.39	4.24	4.53	3.17	3.28	3.21	ND	ND	3.16	2.00
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Nickel	17.1	13.7	17.1	14.1	15.9	14.7	8.53	5.62	17.3	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	44.6	36.1	46.1	34.4	40.1	37.4	28.5	20.3	41.9	2.00
Zinc	53.2	46.6	52.8	44.7	47.3	44.2	26.7	16.8	58.2	5.00
Analysis Date:	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	

EPA Method: 7470A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB14-10	SB14-15	SB14-15 DUP	SB15-5	SB15-10	SB15-15	SB15-20	SB15-25	SB15-30	Reporting
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

CHEMTEK
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Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 612015
Report Date: 12/29/16
Date of Sample: 12/03/16
Date Received: 12/05/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB15-35	SB15-40	SB16-5	SB16-10	SB16-15	SB16-15 DUP	SB16-20	SB16-25	SB16-30	Reporting
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Barium	216	147	150	133	134	131	82.2	65.7	213	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	23.2	25.8	19.2	21.2	20.7	20.6	12.8	6.00	22.3	1.00
Cobalt	17.2	20.2	13.5	12.7	11.6	11.7	8.45	5.18	17.1	2.00
Copper	29.1	35.2	21.7	21.4	21.6	22.4	12.8	11.4	31.2	2.00
Lead	2.28	4.04	3.70	3.18	4.38	4.54	3.36	2.97	4.89	2.00
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Nickel	16.5	15.8	15.3	16.6	15.7	17.2	8.93	5.66	17.3	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	42.3	63.8	39.5	39.6	40.3	42.9	31.2	15.7	42.3	2.00
Zinc	53.1	56.4	50.9	48.3	47.7	47.9	28.6	21.2	55.8	5.00
Analysis Date:	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	

EPA Method: 7470A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB14-10	SB14-15	SB14-15 DUP	SB15-5	SB15-10	SB15-15	SB15-20	SB15-25	SB15-30	Reporting
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 612015
Report Date: 12/29/16
Date of Sample: 12/03/16
Date Received: 12/05/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB16-35	SB16-40	SB17-5	SB17-10	SB17-10 DUP	SB17-15	SB17-20	SB17-25	SB17-30	Reporting
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Barium	95.9	60.8	96.9	134	122	150	94.4	46.7	208	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	12.5	24.9	15.4	21.6	22.2	22.6	17.7	8.98	22.8	1.00
Cobalt	8.82	7.28	10.1	13.9	12.7	14.3	11.2	5.39	16.4	2.00
Copper	13.3	21.9	14.6	23.8	24.9	24.9	17.2	8.74	31.1	2.00
Lead	2.17	2.52	ND	3.87	5.18	4.50	2.58	ND	2.32	2.00
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Nickel	9.50	7.95	11.3	18.5	18.2	17.7	13.3	6.57	16.5	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	20.9	48.9	35.1	47.5	48.9	45.2	42.2	22.9	42.9	2.00
Zinc	28	20.4	36.5	54.6	53.9	55.2	36.7	18.4	55.7	5.00
Analysis Date:	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	

EPA Method: 7470A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB14-10	SB14-15	SB14-15 DUF	SB15-5	SB15-10	SB15-15	SB15-20	SB15-25	SB15-30	Reporting
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 612015
Report Date: 12/29/16
Date of Sample: 12/03/16
Date Received: 12/05/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB17-35	SB17-40	SB19-5	SB19-10	SB19-15	SB19-20	SB19-25	SB19-30	SB19-30 DUP	Reporting
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Barium	131	59.6	111	127	89.3	95.4	102	142	136	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	21.1	10.9	18.8	21.9	14.5	17.4	14.5	24.1	23.4	1.00
Cobalt	16.4	7.90	11.4	13.1	9.20	10.3	10.1	13.5	13.8	2.00
Copper	26.3	12.9	18.1	25.6	15.1	15.7	13.4	22.9	24.0	2.00
Lead	3.47	ND	2.84	5.44	2.78	2.07	6.92	4.12	4.81	2.00
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Nickel	17.1	8.29	14.5	19.1	12.3	12.7	12.2	19.3	19.1	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	46.1	25.5	39.3	47.4	30.2	37.7	34.2	46.0	44.9	2.00
Zinc	48.5	24.4	39.5	52.9	31.9	34.2	38.9	51.8	49.2	5.00
Analysis Date:	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	

EPA Method: 7470A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB14-10	SB14-15	SB14-15 DUP	SB15-5	SB15-10	SB15-15	SB15-20	SB15-25	SB15-30	Reporting
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 612015
Report Date: 12/29/16
Date of Sample: 12/03/16
Date Received: 12/05/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB19-35	SB19-40	SB20-5	SB20-10	SB20-15	SB20-20	SB20-25	SB20-30	SB20-35	Reporting
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Barium	130	82.8	125	94.6	145	99.9	129	214	200	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	22.3	17.3	20.9	19.6	23.6	18.2	21.6	27.4	28.4	1.00
Cobalt	16.4	11.5	11.3	11.7	14.0	10.5	13.0	19.9	19.1	2.00
Copper	28.0	22.6	18.1	19.4	23.9	16.7	24.8	35.5	31.8	2.00
Lead	2.53	2.94	2.73	3.33	3.49	2.27	3.1	4.32	2.64	2.00
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Nickel	16.9	13.3	15.0	16.3	19.2	13.5	17.6	21.5	19.8	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	40.6	38.5	42.6	44.9	48.6	44.2	42.8	55.1	47.9	2.00
Zinc	54.0	41.3	42.5	47.2	56.1	37.4	46.3	62.2	59.8	5.00
Analysis Date:	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	

EPA Method: 7470A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB14-10	SB14-15	SB14-15 DUP	SB15-5	SB15-10	SB15-15	SB15-20	SB15-25	SB15-30	Reporting
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	12/8/16	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

CHEMTEK
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Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 612015
Report Date: 12/29/16
Date of Sample: 12/03/16
Date Received: 12/05/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB20-40	Reporting
Dilution Factor:	1	Limit
Analyte	mg/kg	mg/kg
Antimony	ND	2.00
Arsenic	ND	2.00
Barium	113	1.00
Beryllium	ND	1.00
Cadmium	ND	1.00
Chromium	15.9	1.00
Cobalt	9.46	2.00
Copper	19.7	2.00
Lead	2.05	2.00
Molybdenum	ND	2.00
Nickel	12.1	2.00
Selenium	ND	2.00
Silver	ND	1.00
Thallium	ND	2.00
Vanadium	35.6	2.00
Zinc	41.5	5.00
Analysis Date:	12/8/16	

EPA Method: 7470A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB14-10	Reporting
Dilution Factor:	1	Limit
Analyte	mg/kg	mg/kg
Mercury	ND	0.05
Analysis Date:	12/8/16	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 12/09/16
QC Lab ID: 612015-4A
Units: ppb
Job No: 612015

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	98.5	92.1	6.7%	30	70-130
Benzene	ND	25	101.8	90.9	11.3%	30	70-130
Trichloroethylene	ND	25	103.4	92.2	11.5%	30	70-130
Toluene	ND	25	103.1	91.7	11.7%	30	70-130
Chlorobenzene	ND	25	106.3	91.4	15.1%	30	70-130

QC Analysis Date: 12/09/16
QC Lab ID: 612015-3A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M (TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	86.4	84.4	2.3%	30	70-130

QC Analysis Date: 12/13/16
QC Lab ID: 612015-1A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M (TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
DRO (TPH)	ND	0.5	107.0	124.0	14.7%	30	70-130

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QC Analysis Date: 12/08/16
QC Lab ID: 612034-1A
Units: ppm
Job No: 612015

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	107.0	109.0	1.9%	30	70-130
Arsenic	ND	1.00	102.0	105.0	2.9%	30	70-130
Barium	ND	1.00	104.0	105.0	1.0%	30	70-130
Beryllium	ND	1.00	110.0	110.0	0.0%	30	70-130
Cadmium	ND	1.00	103.0	105.0	1.9%	30	70-130
Chromium	ND	1.00	112.0	111.0	0.9%	30	70-130
Cobalt	ND	1.00	106.0	109.0	2.8%	30	70-130
Copper	ND	1.00	103.0	105.0	1.9%	30	70-130
Lead	ND	1.00	109.0	109.0	0.0%	30	70-130
Molybdenum	ND	1.00	109.0	110.0	0.9%	30	70-130
Nickel	ND	1.00	112.0	114.8	2.5%	30	70-130
Selenium	ND	1.00	108.0	109.0	0.9%	30	70-130
Silver	ND	1.00	130.0	115.0	12.2%	30	70-130
Thallium	ND	1.00	104.0	106.0	1.9%	30	70-130
Vanadium	ND	1.00	110.0	110.0	0.0%	30	70-130
Zinc	ND	1.00	109.0	111.0	1.8%	30	70-130

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

612015
Job No.: 4007736

CUSTOMER INFORMATION

COMPANY NAME: CSC
PROJECT CONTACT: A Garcett Email:
ADDRESS: 4010 Watson Plaza Dr. #120 Lakewood
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME NHHS P.O. No.
SITE ADDRESS: 5231 Colfax Ave. LA
SAMPLED BY: EDF
Turn Around Time NORM [X] 24 hr [ ] 48 hr [ ] Other [ ]

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	PAHs 8270SIM	PCBs 8082			
1	SB14 - 10	12-3-16	1118	SO		extract from sal cap side of sleeve		1											X			
2	SB14 - 15 + Dup		1123				1035	2														
3	SB15 - 5		715					1														
4	SB15 - 10		719																			
5	SB15 - 15		725																			
6	SB15 - 20		730																			
7	SB15 - 25		740																			
8	SB15 - 30		745																			
9	SB15 - 35		750																			
10	SB15 - 40		755																			
11	SB16 - 5		815																			
12	SB16 - 10		820																X			
13	SB16 - 15 + Dup		825					2														
14	SB16 - 20		835					1														
15	SB16 - 25		840					1														
16	SB16 - 30		845																			

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Garrett	CSC	12/5/16	1015
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martha Ly	Chemtek	12/5/16	1015

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670

Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com

CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

612015

Job No.: 400773G

Page: 2 of 3

CUSTOMER INFORMATION

COMPANY NAME: CSC

PROJECT CONTACT: A Garrett Email:

ADDRESS: 4010 Watson Plaza Dr. #120 Lakewood

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME NHHS P.O. No.

SITE ADDRESS: 5231 Colfax Ave.

SAMPLED BY: EDF

Turn Around Time NORM [X] 24 hr [ ] 48 hr [ ] Other [ ]

ANALYSIS REQUIRED

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	PAHs 8220 SIM	PCBs 8082			
1	SB16-35	12-3-16	845	SO		extract from red cap		1														
2	SB16-40		850					1														
3	SB17-5		940					1											x			
4	SB17-10 +DUP		950					2														
5	SB17-15		955					1														
6	SB17-20		1000																			
7	SB17-25		1005																			
8	SB17.30		1010																			
9	SB17-35		1015																			
10	SB17-40		1020																			
11	SB19-5		1207																			
12	SB19-10		1213																			
13	SB19-15		1218																			
14	SB19-20		1223																			
15	SB19.25		1227																x			
16	SB19-30 +Rep		1231					2														

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Garrett	CSC	12/5/16	1015
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Monica	Chemtek	12/5/16	1015

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

612015

Job No.: 4007736

Page: 3 of 3

CUSTOMER INFORMATION

COMPANY NAME: CSC

PROJECT CONTACT: AGerrett Email:

ADDRESS: 4010 Watson Plaza Dr. #170 Lakewood

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME NHHS P.O. No.

SITE ADDRESS: 5231 Colfax Ave.

SAMPLED BY: EDF

Turn Around Time NORM [X] 24 hr [ ] 48 hr [ ] Other [ ]

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT
1	SB19-35	12-3-16	1241	SO	extract from red cap 5035			1
2	SB19-40		1247					
3	SB20-5		1310					
4	SB20-10		1313					
5	SB20-15		1318					
6	SB20-20		1323					
7	SB20-25		1329					
8	SB20-30		1334					
9	SB20-35		1339					
10	SB20-40		1345					
11								
12								
13								
14								
15								
16								

ANALYSIS REQUIRED

8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	PAHs 8270 sim				
		X	X					X	X				

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		Aaron Gerrett	CSC	12/5/16	1015
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Martin	Chemtek	12/5/16	1015

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK
environmental laboratories
ELAP: 1435
LACSD: 10167
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: CSC
Project No. 4007736
Project Site: NHHS
5231 Colfax Ave
LA, CA
Attention: Aarron Garrett

Job No: 612047
Report Date: 01/14/17
Date Received: 12/12/16
Number of Samples: 38
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB2-10	12/10/16	612047-01A
SB2-15	12/10/16	612047-02A
SB2-20	12/10/16	612047-03A
SB3-10	12/10/16	612047-04A
SB3-15	12/10/16	612047-05A
SB3-20	12/10/16	612047-06A
SB4-10	12/10/16	612047-07A
SB4-15	12/10/16	612047-08A
SB4-20	12/10/16	612047-09A
SB5-10	12/10/16	612047-10A
SB5-15	12/10/16	612047-11A
SB5-20	12/10/16	612047-12A
SB6-10	12/10/16	612047-13A
SB6-15	12/10/16	612047-14A
SB6-20	12/10/16	612047-15A
SB7-10	12/10/16	612047-16A
SB7-15	12/10/16	612047-17A
SB7-20	12/10/16	612047-18A
SB8-4	12/10/16	612047-19A
SB8-8	12/10/16	612047-20A
SB9-4	12/10/16	612047-21A
SB9-8	12/10/16	612047-22A
SB18-5	12/10/16	612047-23A
SB18-10	12/10/16	612047-24A
SB18-15	12/10/16	612047-25A
SB18-20	12/10/16	612047-26A
SB18-25	12/10/16	612047-27A
SB18-30	12/10/16	612047-28A
SB18-35	12/10/16	612047-29A
SB18-40	12/10/16	612047-30A
SB110-5	12/10/16	612047-31A
SB110-10	12/10/16	612047-32A
SB110-15	12/10/16	612047-33A
SB110-20	12/10/16	612047-34A
SB110-25	12/10/16	612047-35A
SB110-30	12/10/16	612047-36A
SB110-35	12/10/16	612047-37A
SB110-40	12/10/16	612047-38A

Reviewed and Approved:



Michael C.C. Lu
For Laboratory Director

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: CSC | **Project No.** 4007736 | **Job No:** 612047
Project Site: NHHS | **Report Date:** 01/14/17
EPA Method : 8260B | 5231 Colfax Ave | **Date of Sample:** 12/10/16
Sample Matrix: Soil | **Units:** ppb or µg/kg | **Date Received:** 12/12/16

Client Sample ID:	SB8-4	SB8-8	SB9-4	SB9-8	SB18-5	SB18-10	SB18-15	SB18-20	SB18-25	SB18-30	Detection
Dilution Factor:	0.9	1	1	1	1	0.9	1	0.9	1	0.9	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
cis-1,2 Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Tetrachloroethene(PCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene(TCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Ethanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
ETBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
DIPE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
TAME	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
TBA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
MEK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
MIBK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Ethyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Analysis Date:	12/14/16	12/14/16	12/14/16	12/14/16	12/14/16	12/14/16	12/15/16	12/15/16	12/15/16	12/15/16	

ND: Not Detected Below (DF x Detection Limit) **DF: Dilution Factor**

CHEMTEK
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Certificate of Analysis

Client: CSC | **Project No.** 4007736 | **Job No:** 612047
Project Site: NHHS | **Report Date:** 01/14/17
EPA Method : 8260B | 5231 Colfax Ave | **Date of Sample:** 12/10/16
Sample Matrix: Soil | **Units:** ppb or µg/kg | **Date Received:** 12/12/16

Client Sample ID:	SB18-35	SB18-40	SB110-5	SB110-10	SB110-15	SB110-20	SB110-25	SB110-30	SB110-35	SB110-40	Detection
Dilution Factor:	0.9	0.9	1	0.9	0.9	0.9	1	1	0.9	1	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromoform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Bromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
n-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
tert-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Chlorotoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2-Chloroethyl vinyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Dibromochloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Dibromomethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
cis-1,2 Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
2,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Isopropylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
4-Isopropyltoluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
n-propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Tetrachloroethene(PCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichloroethene(TCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Ethanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	250
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
ETBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
DIPE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
TAME	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
TBA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
MEK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
MIBK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Ethyl Acetate	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50
Analysis Date:	12/15/16	12/15/16	12/15/16	12/15/16	12/15/16	12/15/16	12/15/16	12/15/16	12/15/16	12/15/16	

ND: Not Detected Below (DF x Detection Limit) **DF: Dilution Factor**

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
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Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

EPA Method: 8015M
units: mg/kg or ppm

Job No: 612047
Report Date: 01/14/17
Date of Sample: 12/10/16
Date Received: 12/12/16
Sample Matrix: Soil

Sample ID	UNITS	Gas Range (C4-C12)	DF	DLR	Diesel Range (C13-C22)	DF	DLR	Oil Range (C23-36)	DF	DLR
SB2-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB3-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB4-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB5-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB6-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB7-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB8-4	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB8-8	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB9-4	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB9-8	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB18-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB18-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB18-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB18-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB18-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB18-30	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB18-35	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB18-40	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB110-5	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB110-10	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB110-15	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB110-20	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB110-25	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB110-30	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB110-35	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
SB110-40	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Method Blank	mg/kg	ND	1	0.20	ND	1	5.0	ND	1	10
Sample Date:		12/10/16			12/10/16			12/10/16		
Analysis Date:		12/14-15/16			12/13-16/16			12/13-16/16		

ND : Not detected at or above DLR **DLR: Detection Limit for Reporting Purposes**

CHEMTEK
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Certificate of Analysis

Client: CSC | **Project No.** 4007736 | **Job No:** 612047
Project Site: NHHS | **Report Date:** 01/14/17
EPA Method : 8270C PAH SIM | 5231 Colfax Ave | **Date of Sample:** 12/10/16
Sample Matrix: Soil | **Units:** ppb or µg/kg | **Date Received:** 12/12/16

Client Sample ID:	SB18-5	SB18-10	SB18-15	SB18-20	SB18-25	SB18-30	SB18-35	SB18-40	SB110-5	Detection
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
1-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
2-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Indeno(1,2,3-C,D)Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	20
Analysis Date:	12/29/16	12/29/16	12/29/16	12/29/16	12/29/16	12/29/16	12/29/16	12/29/16	12/29/16	

Client Sample ID:	SB110-10	SB110-15	SB110-20	SB110-25	SB110-30	SB110-35	SB110-40	Detection
Dilution Factor:	1	1	1	1	1	1	1	Limit
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
1-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	20
2-Methlynaphthalene	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	20
Anthracene	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	20
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	20
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	20
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	20
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	20
Chrysene	ND	ND	ND	ND	ND	ND	ND	20
Dibenz(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	20
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	20
Fluorene	ND	ND	ND	ND	ND	ND	ND	20
Indeno(1,2,3-C,D)Pyrene	ND	ND	ND	ND	ND	ND	ND	20
Naphthalene	ND	ND	ND	ND	ND	ND	ND	20
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	20
Pyrene	ND	ND	ND	ND	ND	ND	ND	20
Analysis Date:	12/29/16	12/29/16	12/29/16	12/29/16	12/29/16	12/29/16	12/29/16	

ND: Not Detected Below (DF x Detection Limit) **DF: Dilution Factor**

CHEMTEK
environmental laboratories
13554 Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 612047
Report Date: 01/14/17
Date of Sample: 12/10/16
Date Received: 12/12/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB18-5	SB18-10	SB18-15	SB18-20	SB18-25	SB18-30	SB18-35	SB18-40	SB110-5	Reporting
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Barium	97.4	131	122	161	97.4	142	284	39.5	68.2	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	11.7	22.7	13.7	26.8	39.6	18.2	20.7	6.35	9.46	1.00
Cobalt	8.91	12.1	10.1	11.9	8.98	13.2	18.4	5.02	6.77	2.00
Copper	14.8	22.6	17.1	27.3	26.9	24.5	37.5	8.00	10.1	2.00
Lead	ND	ND	ND	2.23	ND	ND	3.08	ND	ND	2.00
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Nickel	8.34	15.3	10.8	16.8	15.9	12.9	16.6	4.72	7.05	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	25.8	39.4	31.8	39.9	28.4	34.9	43.1	17.0	26.2	2.00
Zinc	34.3	50.1	39.2	75.9	170	50.2	60.9	16.0	25.5	5.00
Analysis Date:	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	

EPA Method: 7470A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB18-5	SB18-10	SB18-15	SB18-20	SB18-25	SB18-30	SB18-35	SB18-40	SB110-5	Reporting
Dilution Factor:	1	1	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 612047
Report Date: 01/14/17
Date of Sample: 12/10/16
Date Received: 12/12/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	SB110-10	SB110-15	SB110-20	SB110-25	SB110-30	SB110-35	SB110-40	Reporting
Dilution Factor:	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	ND	ND	ND	ND	ND	ND	ND	2.00
Arsenic	ND	ND	ND	ND	ND	ND	ND	2.00
Barium	162	160	152	112	249	180	62.2	1.00
Beryllium	ND	ND	ND	ND	ND	ND	ND	1.00
Cadmium	ND	ND	ND	ND	ND	ND	ND	1.00
Chromium	22.5	19.2	18.6	16.7	23.4	21.4	9.59	1.00
Cobalt	14.1	13.4	12.4	9.82	18.3	15.6	7.18	2.00
Copper	26.6	23.5	21.6	15.4	32.5	26.3	10.3	2.00
Lead	3.71	3.27	3.27	ND	ND	2.51	ND	2.00
Molybdenum	ND	ND	ND	ND	ND	ND	ND	2.00
Nickel	18.3	17.6	14.8	11.1	18.2	15.4	7.81	2.00
Selenium	ND	ND	ND	ND	ND	ND	ND	2.00
Silver	ND	ND	ND	ND	ND	ND	ND	1.00
Thallium	ND	ND	ND	ND	ND	ND	ND	2.00
Vanadium	47.1	44.3	41.4	35.3	44.3	42.1	20.5	2.00
Zinc	61.7	57.4	47.5	37.5	62.4	55.9	21.6	5.00
Analysis Date:	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	

EPA Method: 7470A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	SB110-10	SB110-15	SB110-20	SB110-25	SB110-30	SB110-35	SB110-40	Reporting
Dilution Factor:	1	1	1	1	1	1	1	Limit
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Mercury	ND	ND	ND	ND	ND	ND	ND	0.05
Analysis Date:	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	1/14/17	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 12/14/16
QC Lab ID: 612047-20A
Units: ppb
Job No: 612015

QUALITY CONTROL DATA

EPA METHOD: 8260B(VOC's)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
1,1-Dichloroethene	ND	25	100.6	100.5	0.1%	30	70-130
Benzene	ND	25	104.3	104.8	0.5%	30	70-130
Trichloroethylene	ND	25	106.0	109.6	3.3%	30	70-130
Toluene	ND	25	109.8	109.0	0.7%	30	70-130
Chlorobenzene	ND	25	111.5	111.0	0.4%	30	70-130

QC Analysis Date: 12/14/16
QC Lab ID: 612047-19A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M (TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
GRO (TPH)	ND	0.5	88.0	99.6	12.4%	30	70-130

QC Analysis Date: 12/13/16
QC Lab ID: 612015-1A
Units: ppm

QUALITY CONTROL DATA

EPA METHOD: 8015M (TPH Gas Range Organics)

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
DRO (TPH)	ND	0.5	107.0	124.0	14.7%	30	70-130

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QC Analysis Date: 01/14/17
QC Lab ID: 612060-1A
Units: ppm
Job No: 612047

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	125.0	127.0	1.6%	30	70-130
Arsenic	ND	1.00	119.0	124.0	4.1%	30	70-130
Barium	ND	1.00	121.0	122.0	0.8%	30	70-130
Beryllium	ND	1.00	123.0	125.0	1.6%	30	70-130
Cadmium	ND	1.00	125.0	123.0	1.6%	30	70-130
Chromium	ND	1.00	128.0	121.0	5.6%	30	70-130
Cobalt	ND	1.00	119.0	122.0	2.5%	30	70-130
Copper	ND	1.00	121.0	123.0	1.6%	30	70-130
Lead	ND	1.00	125.0	119.0	4.9%	30	70-130
Molybdenum	ND	1.00	129.0	123.0	4.8%	30	70-130
Nickel	ND	1.00	123.0	125.0	1.6%	30	70-130
Selenium	ND	1.00	124.0	123.0	0.8%	30	70-130
Silver	ND	1.00	115.0	123.0	6.7%	30	70-130
Thallium	ND	1.00	116.0	115.0	0.9%	30	70-130
Vanadium	ND	1.00	126.0	120.0	4.9%	30	70-130
Zinc	ND	1.00	126.0	129.0	2.4%	30	70-130

CHEMTEK Environmental Laboratories Inc.

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CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

Job No.: 612047 / 4007736

CUSTOMER INFORMATION

COMPANY NAME: CSC
PROJECT CONTACT: AGarrett Email:
ADDRESS: 4010 Watson Plaza Dr. Suite 170 Lakewood
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: NHHS P.O. No.:
SITE ADDRESS: 5231 Colfax Ave. LA
SAMPLED BY: AGarrett ☐ EDF
Turn Around Time: NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	PCBs 8082				
1	SB2-10	12-10-16	1135			extract sample from red cap					X							X				
2	-15		1140																			
3	-20		1145																			
4	SB3-10		1010								X							X				
5	-15		1015																			
6	-20		1020																			
7	SB4-10		945								X							X				
8	-15		950																			
9	-20		955																			
10	SB5-10		1100								X							X				
11	-15		1105																			
12	-20		1110																			
13	SB6-10		1035								X							X				
14	-15		1040																			
15	-20		1045																			
16	SB7-10		1210								X							X				

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		Amor Garrett	CSC	12-12-16	1020
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Martin	Chemtek	12-12-16	1020

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.

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CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

61204

Job No.: 4007736

Page: 2 of 3

CUSTOMER INFORMATION

COMPANY NAME: CSC

PROJECT CONTACT: A Garrett Email:

ADDRESS: Same

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME NHHS P.O. No.

SITE ADDRESS: 5231 Colfax Ave.

SAMPLED BY: A Garrett EDF

Turn Around Time NORM [X] 24 hr [ ] 48 hr [ ] Other [ ]

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT
1	SB7 - 15	12-10-16	1215	SO		red cap	~~HCl~~	
2	SB7 - 20		1220			extra soil sample		
3	SB8 - 4		900				5035	
4	SB8 - 8		905					
5	SB9 - 4		915					
6	SB9 - 8		920					
7	SB18 - 5		735					
8	" - 10		740					
9	" - 15		745					
10	" - 20		750					
11	" - 25		755					
12	" - 30		800					
13	" - 35		808					
14	" - 40		815					
15	SB110 - 5		1305					
16	" - 10		1310					

ANALYSIS REQUIRED

8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	PCBs 8082	PAHs 8270 SIM			
								Need AC					
		X	X					~~X~~	X	~~X~~			
		X	X						X				
		X	X						X				
		X	X						X				
		X	X					X		X			
		X	X					X		X			
		X	X					X		X			
		X	X					X		X			
		X	X					X		X			
		X	X					X		X			
		X	X					X		X			
		X	X					X		X			
		X	X					X		X			
		X	X					X		X			
		X	X					X		X			

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Garrett	CSC	12-12-16	1020
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Martel	Chemtek	12-12-11	1020

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

CHEMTEK Environmental Laboratories Inc.

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CHAIN OF CUSTODY RECORD

612047

Job No.: 4007736

CUSTOMER INFORMATION

COMPANY NAME: CSC
PROJECT CONTACT: A Garrett Email:
ADDRESS:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: NHHS P.O. No.
SITE ADDRESS: 5231 Colfax Ave.
SAMPLED BY: A Garrett ☐ EDF
Turn Around Time: NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	PAHs 8270 SIM				
1	SB110-15'	12/12/16	1325	SO		attach sample	cool				X	X					X	X				
2	-20		1320			for					X	X					X	X				
3	-25		1325			end cap					X	X					X	X				
4	-30		1330								X	X					X	X				
5	-35		1337								X	X					X	X				
6	-40		1345								X	X					X	X				
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Garrett	CSC	12-12-16	1020
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Mark	Chmtk	12-12-16	1020

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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ELAP: 1435
LACSD: 10167

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Certificate of Analysis

Client:	CSC	**Project No.**		**Job No:**	612060
	110 Pine Ave	**Project Site:**	NHHS	**Report Date:**	02/09/17
	Long Beach, CA		5231 Colfax Ave	**Date Received:**	12/13/16
			LA, CA	**Number of Samples:**	1
Attention:	Aarron Garrett			**Sample Matrix:**	Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
BS01	12/13/16	612060-01A

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Certificate of Analysis

Client: CSC
Project Site: NHHS
Project No:

Job No: 612060
Report Date: 02/09/17
Date of Sample: 12/13/16
Date Received: 12/13/16
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:	BS01	Detection
Dilution Factor:	1	Limit
Analyte	(ppm)	(ppm)
Antimony	ND	2.00
Arsenic	116	2.00
Barium	220	1.00
Beryllium	ND	1.00
Cadmium	ND	1.00
Chromium	39.8	1.00
Cobalt	56.3	2.00
Copper	114	2.00
Lead	665	2.00
Molybdenum	ND	2.00
Nickel	1,040	2.00
Selenium	ND	2.00
Silver	ND	1.00
Thallium	ND	2.00
Vanadium	1,670	2.00
Zinc	213	5.00

Analysis Date: 1/4/17

EPA Method: 7471A Mercury **Units:** ppm or mg/Kg

Client Sample ID:	BS01	Detection
Dilution Factor:	1	Limit
Analyte	(ppm)	(ppm)
Mercury	ND	0.05

Analysis Date: 1/4/17

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Client: CSC
Sample Matrix: Soil
EPA Method: 8270C
Project No.
Project Site: NHHS
Units: ppb or µg/kg
Job No: 612060
Report Date: 02/09/17
Date of Sample: 12/13/16
Date Received: 12/13/16

Client Sample ID:	BS01	Detection
Dilution Factor:	1	Limit
	(ppb)	(ppb)
Phenol	ND	200
bis(2-Chloroethyl)Ether	ND	200
2-Chlorophenol	ND	200
1,3-Dichlorobenzene	ND	200
1,4-Dichlorobenzene	ND	200
Benzyl alcohol	ND	200
1,2-Dichlorobenzene	ND	200
2-Methylphenol(O-cresol)	ND	200
bis(2-Chloroisopropyl)Ether	ND	200
n-Nitroso-di-n-Propylamine	ND	200
4-Methylphenol(P-cresol)	ND	200
Hexachloroethane	ND	200
Nitrobenzene	ND	200
Isophorone	ND	200
2-Nitrophenol	ND	200
2,4-Dimethylphenol	ND	200
bis(2-Chloroethoxy) Methane	ND	200
2,4-Dichlorophenol	ND	400
1,2,4-Trichlorobenzene	ND	200
Naphthalene	ND	200
4-Chloroaniline	ND	200
Hexachlorobutadiene	ND	200
4-Chloro-3-Methylphenol	ND	200
2-Methlynaphthalene	ND	200
Hexachlorocyclopentadiene	ND	200
2,4,6-Trichlorophenol	ND	200
2,4,5-Trichlorophenol	ND	200
2-Chloronaphthalene	ND	200
2-Nitroaniline	ND	200
Dimethyl Phthalate	ND	200
Acenaphthylene	ND	200
2,6-Dinitrotoluene	ND	200
3-Nitroaniline	ND	200
Carbazole	ND	200
Benzoic Acid	4,300	800
Acenaphthene	ND	200
2,4-Dinitrophenol	ND	200
Dibenzofuran	ND	200
4-Nitrophenol	ND	200
2,4-Dinitrotoluene	ND	200
Fluorene	ND	200
Diethyl Phthalate	ND	200
4-Chlorophenyl Phenyl Ether	ND	200
4-Nitroaniline	ND	200
4,6-Dinitro-2-methylphenol	ND	400
N-Nitrosodiphenylamine	ND	200
4-Bromophenyl Phenyl Ether	ND	200
Hexachlorobenzene(total)	ND	200
Pentachlorophenol	ND	400
Phenanthrene	ND	200
Anthracene	ND	200
Di-n-Butyl Phthalate	ND	200
Fluoranthene	ND	200
Pyrene	ND	200
Butyl Benzyl Phthalate	ND	200
Benzo(a)anthracene	ND	200
3,3-Dichlorobenzidine	ND	200
Chrysene	ND	200
bis(2-Ethylhexyl) Phthalate	ND	200
Di-N-Octyl Phthalate	ND	200
Benzo(b)flouranthene	ND	200
Benzo(k)flouranthene	ND	200
Benzo(a)pyrene	ND	200
Indeno(1,2,3-C,D)Pyrene	ND	200
Dibenz(a,h)anthracene	ND	200
Benzo(g,h,i)perylene	ND	200
N-Nitrosodiemethylamine	ND	200
Pyridine	ND	200
Aniline	ND	200
Benzidine	ND	200
Analysis Date:	1/6/17	

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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Certificate of Analysis

Client:	CSC	**Job No:**	702014
Project Site:	NHHS	**Report Date:**	02/09/17
	5231 Colfax Ave	**Date of Sample:**	12/13/16
Extraction Method	STLC (W.E.T Method)	**Date Received:**	12/13/16
Extraction Date	2/7/2017	**Sample Matrix:**	Aqueous(STLC Extract)
EPA Method:	6010B Metals	**Units:**	ppm or mg/l

	Client Sample ID:	BS01	Detection
	Dilution Factor:	2	Limit
Analyte		(ppm)	(ppm)
Arsenic		2.50	0.01
Lead		4.39	0.01
Nickel		35.7	0.01
	Analysis Date:	2/9/17	

Extraction Method	TCLP	**Date Received:**	12/13/16
Extraction Date	2/7/2017	**Sample Matrix:**	Aqueous(TCLP Extract)
EPA Method:	6010B Metals	**Units:**	ppm or mg/l

	Client Sample ID:	BS01	Detection
	Dilution Factor:	2	Limit
Analyte		(ppm)	(ppm)
Arsenic		0.08	0.01
Lead		0.04	0.01
	Analysis Date:	2/9/17	

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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QC Analysis Date: 01/04/17
QC Lab ID: 612060-1A
Units: ppm
Job No: 612060

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Antimony	ND	1.00	114.0	124.0	8.4%	30	70-130
Arsenic	ND	1.00	113.0	124.0	9.3%	30	70-130
Barium	ND	1.00	110.0	122.0	10.3%	30	70-130
Beryllium	ND	1.00	117.1	124.0	5.7%	30	70-130
Cadmium	ND	1.00	103.0	116.0	11.9%	30	70-130
Chromium	ND	1.00	110.0	122.0	10.3%	30	70-130
Cobalt	ND	1.00	112.0	119.0	6.1%	30	70-130
Copper	ND	1.00	108.0	121.0	11.4%	30	70-130
Lead	ND	1.00	113.0	123.0	8.5%	30	70-130
Molybdenum	ND	1.00	117.0	125.0	6.6%	30	70-130
Nickel	ND	1.00	116.0	124.0	6.7%	30	70-130
Selenium	ND	1.00	112.0	122.0	8.5%	30	70-130
Silver	ND	1.00	102.0	115.0	12.0%	30	70-130
Thallium	ND	1.00	108.0	120.0	10.5%	30	70-130
Vanadium	ND	1.00	109.0	123.0	12.1%	30	70-130
Zinc	ND	1.00	115.0	126.0	9.1%	30	70-130

CHEMTEK Environmental Laboratories Inc.
13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

Job No.: 612060 / 4007736

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: CSC
PROJECT CONTACT: AGarrett Email:
ADDRESS: 4010 Watson Plaza Drive #170 Lakewood
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME: NHHS P.O. No.:
SITE ADDRESS:
SAMPLED BY: ☐ EDF
Turn Around Time: NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

ANALYSIS REQUIRED

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	SVOCs 8270C				
1	B501	12-13-16	1150	SO			Chill	1									X	X				
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						
16																						

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		Aaron Garrett	CSC	12-13-16	1430
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED FOR LABORATORY BY:		Martinez	Chemtek	12-13-16	1430

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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ELAP: 1435
LACSD: 10167
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F 562.926.8324

Certificate of Analysis

Client: CSC	**Project No.**	**Job No:**	703247
110 Pine Ave	**Project Site:** NHHS	**Report Date:**	04/12/17
Long Beach, CA	5231 Colfax Ave	**Date Received:**	03/26/17
	LA, CA	**Number of Samples:**	72
Attention: Aarron Garrett		**Sample Matrix:**	Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB041S1-0.5	03/26/17	703247-01A
SB041S1-1.5	03/26/17	703247-02A
SB041S1-2.5	03/26/17	703247-03A
SB041S2-0.5	03/26/17	703247-04A
SB041S2-1.5	03/26/17	703247-05A
SB041S2-2.5	03/26/17	703247-06A
SB041S3-0.5	03/26/17	703247-07A
SB041S3-1.5	03/26/17	703247-08A
SB041S3-2.5	03/26/17	703247-09A
SB061S1-0.5	03/26/17	703247-10A
SB061S1-1.5	03/26/17	703247-11A
SB061S1-2.5	03/26/17	703247-12A
SB061S2-0.5	03/26/17	703247-13A
SB061S2-1.5	03/26/17	703247-14A
SB061S2-2.5	03/26/17	703247-15A
SB061S3-0.5	03/26/17	703247-16A
SB061S3-1.5	03/26/17	703247-17A
SB061S3-2.5	03/26/17	703247-18A
SB065S1-0.5	03/26/17	703247-19A
SB065S1-1.5	03/26/17	703247-20A
SB065S1-2.5	03/26/17	703247-21A
SB065S2-0.5	03/26/17	703247-22A
SB065S2-1.5	03/26/17	703247-23A
SB065S2-2.5	03/26/17	703247-24A
SB067S1-0.5	03/26/17	703247-25A
SB067S1-1.5	03/26/17	703247-26A
SB067S1-2.5	03/26/17	703247-27A
SB067S2-0.5	03/26/17	703247-28A
SB067S2-1.5	03/26/17	703247-29A
SB067S2-2.5	03/26/17	703247-30A
SB067S3-0.5	03/26/17	703247-31A
SB067S3-1.5	03/26/17	703247-32A
SB067S3-2.5	03/26/17	703247-33A
SB067S4-0.5	03/26/17	703247-34A
SB067S4-1.5	03/26/17	703247-35A
SB067S4-2.5	03/26/17	703247-36A
SB068S1-0.5	03/26/17	703247-37A
SB068S1-1.5	03/26/17	703247-38A
SB068S1-2.5	03/26/17	703247-39A
SB068S2-0.5	03/26/17	703247-40A
SB068S2-1.5	03/26/17	703247-41A
SB068S2-2.5	03/26/17	703247-42A
SB068S3-0.5	03/26/17	703247-43A
SB068S3-1.5	03/26/17	703247-44A
SB068S3-2.5	03/26/17	703247-45A
SB068S4-0.5	03/26/17	703247-46A
SB068S4-1.5	03/26/17	703247-47A
SB068S4-2.5	03/26/17	703247-48A

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Client: CSC
110 Pine Ave
Long Beach, CA

Attention: Aarron Garrett

Project No.
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 703247
Report Date: 04/12/17
Date Received: 03/26/17
Number of Samples: 72
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB069S1-0.5	03/26/17	703247-49A
SB069S1-1.5	03/26/17	703247-50A
SB069S1-2.5	03/26/17	703247-51A
SB094S1-0.5	03/26/17	703247-52A
SB094S1-1.5	03/26/17	703247-53A
SB094S1-2.5	03/26/17	703247-54A
SB100S1-0.5	03/26/17	703247-55A
SB100S1-1.5	03/26/17	703247-56A
SB100S1-2.5	03/26/17	703247-57A
SB100S2-0.5	03/26/17	703247-58A
SB100S2-1.5	03/26/17	703247-59A
SB100S2-2.5	03/26/17	703247-60A
SB102S1-0.5	03/26/17	703247-61A
SB102S1-1.5	03/26/17	703247-62A
SB102S1-2.5	03/26/17	703247-63A
SB102S2-0.5	03/26/17	703247-64A
SB102S2-1.5	03/26/17	703247-65A
SB102S2-2.5	03/26/17	703247-66A
SB102S3-0.5	03/26/17	703247-67A
SB102S3-1.5	03/26/17	703247-68A
SB102S3-2.5	03/26/17	703247-69A
SB102S4-0.5	03/26/17	703247-70A
SB102S4-1.5	03/26/17	703247-71A
SB102S4-2.5	03/26/17	703247-72A

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Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 703247
Report Date: 04/12/17
Date of Sample: 03/26/17
Date Received: 03/26/17
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:		Arsenic	Lead	Analysis Date
DF		1	1	
Analyte	*Detection Limit*	*2.00*	*2.00*	
SB041S1-0.5	ppm	ND		3/30/2017
SB041S1-1.5	ppm	ND		3/30/2017
SB041S1-2.5	ppm	117		3/30/2017
SB041S2-0.5	ppm	ND		3/30/2017
SB041S2-1.5	ppm	ND		3/30/2017
SB041S2-2.5	ppm	ND		3/30/2017
SB041S3-0.5	ppm	ND		3/30/2017
SB041S3-1.5	ppm	ND		3/30/2017
SB041S3-2.5	ppm	7.67		3/30/2017
SB061S1-0.5	ppm	ND		3/30/2017
SB061S1-1.5	ppm	ND		3/30/2017
SB061S1-2.5	ppm			3/30/2017
SB061S2-0.5	ppm	ND		3/30/2017
SB061S2-1.5	ppm	ND		3/30/2017
SB061S2-2.5	ppm			3/30/2017
SB061S3-0.5	ppm	ND		3/30/2017
SB061S3-1.5	ppm	ND		3/30/2017
SB061S3-2.5	ppm			3/30/2017
SB065S1-0.5	ppm		ND	3/30/2017
SB065S1-1.5	ppm		3.64	3/30/2017
SB065S1-2.5	ppm			3/30/2017
SB065S2-0.5	ppm		11.1	3/30/2017
SB065S2-1.5	ppm		8.38	3/30/2017
SB065S2-2.5	ppm			3/30/2017
SB067S1-0.5	ppm		12.3	3/30/2017
SB067S1-1.5	ppm		2.95	3/30/2017
SB067S1-2.5	ppm			3/30/2017
SB067S2-0.5	ppm		14.6	3/30/2017
SB067S2-1.5	ppm		51.4	3/30/2017
SB067S2-2.5	ppm			3/30/2017
SB067S3-0.5	ppm		17.5	3/30/2017
SB067S3-1.5	ppm		37.9	3/30/2017
SB067S3-2.5	ppm			3/30/2017
SB067S4-0.5	ppm		176	3/30/2017
SB067S4-1.5	ppm		59.5	3/30/2017
SB067S4-2.5	ppm			3/30/2017
SB068S1-0.5	ppm		60.3	3/30/2017
SB068S1-1.5	ppm		ND	3/30/2017
SB068S1-2.5	ppm			3/30/2017
SB068S2-0.5	ppm		ND	3/30/2017
SB068S2-1.5	ppm		ND	3/30/2017
SB068S2-2.5	ppm			3/30/2017
SB068S3-0.5	ppm		ND	3/30/2017
SB068S3-1.5	ppm		ND	3/30/2017
SB068S3-2.5	ppm			3/30/2017
SB068S4-0.5	ppm		ND	3/30/2017
SB068S4-1.5	ppm		ND	3/30/2017
SB068S4-2.5	ppm			3/30/2017

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 703247
Report Date: 04/12/17
Date of Sample: 03/26/17
Date Received: 03/26/17
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:		Arsenic	Lead	Analysis Date
DF		1	1	
Analyte	*Detection Limit*	*2.00*	*2.00*	
SB069S1-0.5	ppm		ND	3/30/2017
SB069S1-1.5	ppm		ND	3/30/2017
SB069S1-2.5	ppm			3/30/2017
SB094S1-0.5	ppm		ND	3/30/2017
SB094S1-1.5	ppm		ND	3/30/2017
SB094S1-2.5	ppm		ND	4/4/2017
SB100S1-0.5	ppm		7.77	3/30/2017
SB100S1-1.5	ppm		ND	3/30/2017
SB100S1-2.5	ppm			3/30/2017
SB100S2-0.5	ppm		ND	3/30/2017
SB100S2-1.5	ppm		54.7	3/30/2017
SB100S2-2.5	ppm			3/30/2017
SB102S1-0.5	ppm	57.1		3/30/2017
SB102S1-1.5	ppm	ND		3/30/2017
SB102S1-2.5	ppm			3/30/2017
SB102S2-0.5	ppm	109		3/30/2017
SB102S2-1.5	ppm	4.92		3/30/2017
SB102S2-2.5	ppm			3/30/2017
SB102S3-0.5	ppm	ND		3/30/2017
SB102S3-1.5	ppm	ND		3/30/2017
SB102S3-2.5	ppm			3/30/2017
SB102S4-0.5	ppm	26.2		3/30/2017
SB102S4-1.5	ppm	111		3/30/2017
SB102S4-2.5	ppm			3/30/2017
SB102S4-2.5	ppm	ND		4/12/2017
SB043S3-0.5	ppm	ND		4/12/2017
SB043S3-1.5	ppm	ND		4/12/2017
SB043S3-2.5	ppm	8.61		4/12/2017
SB068S1-0.5	ppm		11.2	4/12/2017
SB068S1-1.5	ppm		39.3	4/12/2017
SB100S2-0.5	ppm		ND	4/12/2017
SB100S2-1.5	ppm		67.1	4/12/2017
SB102S3-0.5	ppm	ND		4/12/2017
SB102S3-1.5	ppm	ND		4/12/2017

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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ELAP: 1435
LACSD: 10167

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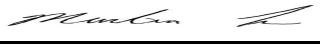
Certificate of Analysis

Client:	CSC	**Project No.**	4007736	**Job No:**	705001
	4010 Watson Plaza Dr	**Project Site:**	NHHS	**Report Date:**	05/10/17
	Lakewood, CA		5231 Colfax Ave	**Date Received:**	05/01/17
			LA, CA	**Number of Samples:**	17
Attention:	Aarron Garrett			**Sample Matrix:**	Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB041S1-3	04/29/17	705001-01A
SB041S1-4	04/29/17	705001-02A
SB041S1-5	04/29/17	705001-03A
SB102S5-0.5	04/29/17	705001-04A
SB102S5-0.5 DUP	04/29/17	705001-05A
SB102S5-1.5	04/29/17	705001-06A
SB102S5-2.5	04/29/17	705001-07A
SB102S6-0.5	04/29/17	705001-08A
SB102S6-1.5	04/29/17	705001-09A
SB102S6-2.5	04/29/17	705001-10A
SB102S7-0.5	04/29/17	705001-11A
SB102S7-1.5	04/29/17	705001-12A
SB102S7-2.5	04/29/17	705001-13A
SB102S8-0.5	04/29/17	705001-14A
SB102S8-0.5 DUP	04/29/17	705001-15A
SB102S8-1.5	04/29/17	705001-16A
SB102S8-2.5	04/29/17	705001-17A

Reviewed and Approved:



For Michael C.C. Lu
Laboratory Director

CHEMTEK
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Larwin Cir., Santa Fe Springs, CA 90670
T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 705001
Report Date: 05/10/17
Date of Sample: 04/29/17
Date Received: 05/01/17
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

		Client Sample ID:	Arsenic	Analysis Date
	DF		1	
Analyte		*Detection Limit*	*2.00*	
SB041S1-3	1	ppm	ND	5/1/2017
SB102S5-0.5	1	ppm	ND	5/1/2017
SB102S5-0.5 DUP	1	ppm	ND	5/1/2017
SB102S5-1.5	1	ppm	ND	5/1/2017
SB102S6-0.5	1	ppm	ND	5/1/2017
SB102S6-1.5	1	ppm	ND	5/1/2017

ND: Not Detected Below (DF x Detection Limit)
DF: Dilution Factor

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QC Analysis Date: 05/01/17
QC Lab ID: 705001-1A
Units: ppm
Job No: 705001

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Arsenic	ND	1.00	108.0	104.0	3.8%	30	70-130

CHAIN OF CUSTODY RECORD

13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

Job No.: 400773C

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: CSC
PROJECT CONTACT: A Garrett Email:
ADDRESS: 4010 Watson Plaza Dr Lakewood
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME North Hollywood High P.O. No.
SITE ADDRESS: 5231 Colfax AVE
SAMPLED BY: EDF
Turn Around Time: NORM [X] 24 hr [ ] 48 hr [ ] Other [ ]

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	45				
1	SB04151-3	4-24-17	905	SO				1										X				
2	SB04151-4		906																			
3	SB04151-5		910																			
4	SB10255-0.5	Dup	730					2										X				
5	SB10255-1.5		733															X				
6	SB10255-2.5		738																			
7	SB10256-0.5		745															X				
8	SB10256-1.5		750															X				
9	SB10256-2.5		755																			
10	SB10257-0.5		800																AC			
11	SB10257-1.5		803																AG			
12	SB10257-2.5		806																			
13	SB10258-0.5	Dup	815					2											A			
14	SB10258-1.5		820																AC			
15	SB10258-2.5		825																			
16																						

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Garrett	CSC	5-1-17	
RECEIVED BY:				
RELINQUISHED BY:				
RECEIVED FOR LABORATORY BY:	Mark	Chmt	5-1-17	1000

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

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ELAP: 1435
LACSD: 10167
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Certificate of Analysis

Client: CSC
110 Pine Ave
Long Beach, CA

Attention: Aarron Garrett

Project No.
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 707074
Report Date: 08/07/17
Date Received: 07/20/17
Number of Samples: 36
Sample Matrix: Soil

This is the Certificate of Analysis for the following samples:

SAMPLE IDENTIFICATION	DATE OF SAMPLE	LABORATORY IDENTIFICATION
SB111-0.5	07/20/17	707074-01A
SB111-1.5	07/20/17	707074-02A
SB111-2.5	07/20/17	707074-03A
SB112-0.5	07/20/17	707074-04A
SB112-1.5	07/20/17	707074-05A
SB112-2.5	07/20/17	707074-06A
SB113-0.5	07/20/17	707074-07A
SB113-1.5	07/20/17	707074-08A
SB113-2.5	07/20/17	707074-09A
SB114-0.5	07/20/17	707074-10A
SB114-0.5 DUP	07/20/17	707074-11A
SB114-1.5	07/20/17	707074-12A
SB114-2.5	07/20/17	707074-13A
SB115-0.5	07/20/17	707074-14A
SB115-1.5	07/20/17	707074-15A
SB115-2.5	07/20/17	707074-16A
SB116-0.5	07/20/17	707074-17A
SB116-1.5	07/20/17	707074-18A
SB116-2.5	07/20/17	707074-19A
SB117-0.5	07/20/17	707074-20A
SB117-0.5 DUP	07/20/17	707074-21A
SB117-1.5	07/20/17	707074-22A
SB117-2.5	07/20/17	707074-23A
SB118-0.5	07/20/17	707074-24A
SB118-1.5	07/20/17	707074-25A
SB118-2.5	07/20/17	707074-26A
SB119-0.5	07/20/17	707074-27A
SB119-1.5	07/20/17	707074-28A
SB119-2.5	07/20/17	707074-29A
SB072S1-0.5	07/20/17	707074-30A
SB072S2-0.5	07/20/17	707074-31A
SB072S2-0.5 DUP	07/20/17	707074-32A
SB109S1-0.5	07/20/17	707074-33A
SB109S1-1.5	07/20/17	707074-34A
SB109S1-2.5	07/20/17	707074-35A
SB109S1-3.5	07/20/17	707074-36A

CHEMTEK
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T 562.926.9848
F 562.926.8324

Certificate of Analysis

Client: CSC
Project Site: NHHS
5231 Colfax Ave
LA, CA

Job No: 707074
Report Date: 08/07/17
Date of Sample: 07/20/17
Date Received: 07/20/17
Sample Matrix: Soil

EPA Method: 6010B Metals **Units:** ppm or mg/Kg

Client Sample ID:		Arsenic	Lead	Analysis Date
DF		1	1	
Analyte	*Detection Limit*	*2.00*	*2.00*	
SB111-0.5	ppm	2.19	ND	8/1/2017
SB111-1.5	ppm	ND	ND	8/1/2017
SB111-2.5	ppm	ND	ND	8/1/2017
SB112-0.5	ppm	ND	ND	8/1/2017
SB112-1.5	ppm	ND	ND	8/1/2017
SB112-2.5	ppm	ND	ND	8/1/2017
SB113-0.5	ppm	ND	11.9	8/1/2017
SB113-1.5	ppm	ND	ND	8/1/2017
SB113-2.5	ppm	ND	ND	8/1/2017
SB114-0.5	ppm	ND	286	8/1/2017
SB114-0.5 DUP	ppm	6.23	285	8/1/2017
SB114-1.5	ppm	ND	ND	8/1/2017
SB114-2.5	ppm	ND	3.10	8/1/2017
SB115-0.5	ppm	4.74	357	8/1/2017
SB115-1.5	ppm	ND	10.5	8/1/2017
SB115-2.5	ppm	ND	55.0	8/1/2017
SB116-0.5	ppm	ND	59.3	8/1/2017
SB116-1.5	ppm	ND	26.9	8/1/2017
SB116-2.5	ppm	ND	53.1	8/1/2017
SB117-0.5	ppm	7.40	27.0	8/1/2017
SB117-0.5 DUP	ppm	10.6	27.0	8/1/2017
SB117-1.5	ppm	ND	ND	8/1/2017
SB117-2.5	ppm	ND	ND	8/1/2017
SB118-0.5	ppm	2.96	16.7	8/1/2017
SB118-1.5	ppm	ND	2.50	8/1/2017
SB118-2.5	ppm	ND	5.71	8/1/2017
SB119-0.5	ppm	2.19	18.0	8/1/2017
SB119-1.5	ppm	19.3	27.6	8/1/2017
SB119-2.5	ppm	ND	ND	8/1/2017
SB072S1-0.5	ppm		16.3	8/1/2017
SB072S2-0.5	ppm		14.5	8/1/2017
SB072S2-0.5 DUP	ppm		14.3	8/1/2017
SB109S1-0.5	ppm		19.7	8/1/2017
SB109S1-1.5	ppm		10.7	8/1/2017
SB109S1-2.5	ppm		5.51	8/1/2017
SB109S1-3.5	ppm		ND	8/1/2017

ND: Not Detected Below (DF x Detection Limit)

DF: Dilution Factor

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F 562.926.8324

QC Analysis Date: 08/01/17
QC Lab ID: 707125-1A
Units: ppm
Job No: 707074

QUALITY CONTROL DATA (MS/MSD)

EPA METHOD: 6010B

ANALYTE	BLANK RESULT	SPIKE CONC.	MS % REC	MSD % REC	% RPD	% RPD ACCEPT LIMITS	% REC ACCEPT LIMITS
Arsenic	ND	1.00	113.0	116.0	2.6%	30	70-130
Lead	ND	1.00	106.0	105.0	0.9%	30	70-130

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Ordered By

Clark Seif Clark, Inc
110 Pine Ave Suite 925
Long Beach, CA 90802-

Telephone: (562)435-8080
Attention: Aaron Garrett

Number of Pages	**42**
Date Received	**11/08/2016**
Date Reported	**11/21/2016**

Job Number	Order Date	Client
85198	11/08/2016	CSC-LB

Enclosed please find results of analyses of 32 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670

Tel. (562) 926-9848 FAX (562) 926-6324 Email: ChemtekLabs@hotmail.com

CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CSC

CHAIN OF CUSTODY RECORD

email data to Chemtek invoice to CSC

Job No.: 85198

Page: 1 of 4

CUSTOMER INFORMATION

COMPANY NAME: CSC

PROJECT CONTACT: A Garrett Email:

ADDRESS: 110 pine Ave LB

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.

SITE ADDRESS:

SAMPLED BY: ☐ EDF

Turn Around Time NORM ☑ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time REMARKS Preserved	NO. OF CONT
1	SB021-0.5	11-5-16		SO	85198-01	
2	SB022-0.5				85198-02	
3	SB023-0.5				85198-03	
4	SB024-0.5				85198-04	
5	SB025-0.5				85198-05	
6	SB026-0.5	11-6-16			85198-06	
7	SB027-0.5				85198-07	
8	SB028-0.5				85198-08	
9	SB039-0.5				85198-09	
10	40-0.5				85198-10	
11	49-0.5				85198-11	
12	50-0.5				85198-12	
13	55-0.5				85198-13	
14	56-0.5				85198-14	
15	57-0.5				85198-15	
16	62-0.5				85198-16	

ANALYSIS REQUIRED

8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	EPA 8081				

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		Aidan Garrett	CSI	11/8/16	2300
RECEIVED BY:		Sergio P	ACTL	11/8/16	1430
RELINQUISHED BY:		Sergio P	ACTL	11-8-16	1930
RECEIVED FOR LABORATORY BY:		Ivan Conde	ACTL	11-8-16	1930

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

***Type:** **SO**-Soil **GW**-Ground Water **WW**-Waste Water **AQ**-Aqueous **A**-Air **OT**-Other

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CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CSC

CHAIN OF CUSTODY RECORD

Job No.: 85198

Page: 2 of 4

CUSTOMER INFORMATION

COMPANY NAME: CSC

PROJECT CONTACT: Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.

SITE ADDRESS:

SAMPLED BY: ☐ EDF

Turn Around Time NORM ☑ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT
1	SD664-0.5	11/6/16		SO	85198.17			
2	65-0.5				85198.18			
3	66-0.5				85198.19			
4	67-0.5				85198.20			
5	68-0.5				85198.21			
6	69-0.5				85198.22			
7	71-0.5				85198.23			
8	72-0.5				85198.24			
9	73-0.5				85198.25			
10	74-0.5				85198.26			
11	75-0.5				85198.27			
12	76-0.5				85198.28			
13	77-0.5				85198.29			
14	79-0.5				85198.30			
15	80-0.5				85198.31			
16	81-0.5				85198.32			

ANALYSIS REQUIRED

8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	8081A				

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:			CSC	11/6/16	2345
RECEIVED BY:		AETL Sanjisp	AETL	11/8/16	1430
RELINQUISHED BY:		Sanjisp	AETL	11-8-16	1930
RECEIVED FOR LABORATORY BY:		Jean Saude	AETL	11/08/16	1930

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

***Type**: **SO**-Soil **GW**-Ground Water **WW**-Waste Water **AQ**-Aqueous **A**-Air **OT**-Other

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Clark Seif Clark, Inc
110 Pine Ave Suite 925
Long Beach, CA 90802-

Telephone: (562)435-8080
Attention: Aaron Garrett

Project ID: None
Date Received 11/08/2016
Date Reported 11/21/2016

Job Number	Order Date	Client
85198	11/08/2016	CSC-LB

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 32 samples with the following specification on 11/08/2016.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
85198.01	SB021-0.5	11/05/2016	Soil	1
85198.02	SB022-0.5	11/05/2016	Soil	1
85198.03	SB023-0.5	11/05/2016	Soil	1
85198.04	SB024-0.5	11/05/2016	Soil	1
85198.05	SB025-0.5	11/05/2016	Soil	1
85198.06	SB026-0.5	11/06/2016	Soil	1
85198.07	SB027-0.5	11/06/2016	Soil	1
85198.08	SB028-0.5	11/06/2016	Soil	1
85198.09	SB039-0.5	11/06/2016	Soil	1
85198.10	SB040-0.5	11/06/2016	Soil	1
85198.11	SB049-0.5	11/06/2016	Soil	1
85198.12	SB050-0.5	11/06/2016	Soil	1
85198.13	SB055-0.5	11/06/2016	Soil	1
85198.14	SB056-0.5	11/06/2016	Soil	1
85198.15	SB057-0.5	11/06/2016	Soil	1
85198.16	SB062-0.5	11/06/2016	Soil	1
85198.17	SB064-0.5	11/06/2016	Soil	1
85198.18	SB065-0.5	11/06/2016	Soil	1
85198.19	SB066-0.5	11/06/2016	Soil	1
85198.20	SB067-0.5	11/06/2016	Soil	1
85198.21	SB068-0.5	11/06/2016	Soil	1
85198.22	SB069-0.5	11/06/2016	Soil	1
85198.23	SB071-0.5	11/06/2016	Soil	1
85198.24	SB072-0.5	11/06/2016	Soil	1

Continued

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Long Beach, CA 90802-

Telephone: (562)435-8080
Attention: Aaron Garrett

Project ID: None
Date Received 11/08/2016
Date Reported 11/21/2016

Job Number	Order Date	Client
85198	11/08/2016	CSC-LB

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

85198.25	SB073-0.5	11/06/2016	Soil	1
85198.26	SB074-0.5	11/06/2016	Soil	1
85198.27	SB075-0.5	11/06/2016	Soil	1
85198.28	SB076-0.5	11/06/2016	Soil	1
85198.29	SB077-0.5	11/06/2016	Soil	1
85198.30	SB079-0.5	11/06/2016	Soil	1
85198.31	SB080-0.5	11/06/2016	Soil	1
85198.32	SB081-0.5	11/06/2016	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8081A)	11/15/2016	2	Normal	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Clark Seif Clark, Inc
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Telephone: (562)435-8080
Attn: Aaron Garrett
Page: **2**

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB2

Our Lab I.D.			Method Blank	**85198.01**			
Client Sample I.D.				SB021-0.5			
Date Sampled				11/05/2016			
Date Prepared			11/11/2016	11/11/2016			
Preparation Method			3550B	3550B			
Date Analyzed			11/12/2016	11/12/2016			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	1.0	2.0	ND	ND			
Chlordane (Total)	1.0	2.0	ND	ND			
Chlordane (alpha)	1.0	2.0	ND	ND			
4,4'-DDD (DDD)	1.0	2.0	ND	ND			
4,4'-DDE (DDE)	1.0	2.0	ND	ND			
4,4'-DDT (DDT)	1.0	2.0	ND	ND			
Dieldrin	1.0	2.0	ND	ND			
Endosulfan 1	1.0	2.0	ND	ND			
Endosulfan 11	1.0	2.0	ND	ND			
Endosulfan sulfate	1.0	2.0	ND	ND			
Endrin	1.0	2.0	ND	ND			
Endrin aldehyde	1.0	2.0	ND	ND			
Endrin ketone	1.0	2.0	ND	ND			
Chlordane (gamma)	1.0	2.0	ND	ND			
Heptachlor	1.0	2.0	ND	ND			
Heptachlor epoxide	1.0	2.0	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND			
Methoxychlor	5.0	10.0	ND	ND			
Toxaphene	85.0	170.0	ND	ND			

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	**85198.01**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	30-150		93.6	106			
Tetrachloro-m-xylene	30-150		101	80.0			

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ANALYTICAL RESULTS

Ordered By

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Long Beach, CA 90802-

Telephone: (562)435-8080
Attn: Aaron Garrett
Page: **4**

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB2

Our Lab I.D.			85198.02	85198.03			
Client Sample I.D.			SB022-0.5	SB023-0.5			
Date Sampled			11/05/2016	11/05/2016			
Date Prepared			11/11/2016	11/11/2016			
Preparation Method			3550B	3550B			
Date Analyzed			11/12/2016	11/12/2016			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			2	2			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	2.0	4.0	ND	ND			
Chlordane (Total)	2.0	4.0	ND	ND			
Chlordane (alpha)	2.0	4.0	ND	ND			
4,4'-DDD (DDD)	2.0	4.0	ND	ND			
4,4'-DDE (DDE)	2.0	4.0	58.8	7.56			
4,4'-DDT (DDT)	2.0	4.0	20.2	14.7			
Dieldrin	2.0	4.0	ND	ND			
Endosulfan 1	2.0	4.0	ND	ND			
Endosulfan 11	2.0	4.0	ND	ND			
Endosulfan sulfate	2.0	4.0	ND	ND			
Endrin	2.0	4.0	16.7	8.13			
Endrin aldehyde	2.0	4.0	ND	ND			
Endrin ketone	2.0	4.0	ND	ND			
Chlordane (gamma)	2.0	4.0	ND	ND			
Heptachlor	2.0	4.0	ND	ND			
Heptachlor epoxide	2.0	4.0	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND	ND			
Methoxychlor	10	20	ND	ND			
Toxaphene	170	340	ND	ND			

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.02	85198.03			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		90.4	78.4			
Tetrachloro-m-xylene	30-150		90.2	92.2			

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ANALYTICAL RESULTS

Ordered By

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Long Beach, CA 90802-

Telephone: (562)435-8080
Attn: Aaron Garrett
Page: 6

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB2

Our Lab I.D.			85198.04	85198.05	85198.06	85198.07	
Client Sample I.D.			SB024-0.5	SB025-0.5	SB026-0.5	SB027-0.5	
Date Sampled			11/05/2016	11/05/2016	11/06/2016	11/06/2016	
Date Prepared			11/11/2016	11/11/2016	11/11/2016	11/11/2016	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			11/12/2016	11/12/2016	11/12/2016	11/12/2016	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Aldrin	1.0	2.0	ND	ND	ND	ND	
Chlordane (Total)	1.0	2.0	ND	ND	ND	ND	
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	4.51	
4,4'-DDT (DDT)	1.0	2.0	ND	ND	1.41J	7.61	
Dieldrin	1.0	2.0	ND	ND	ND	ND	
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	
Endrin	1.0	2.0	ND	ND	ND	2.60	
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	
Endrin ketone	1.0	2.0	ND	ND	ND	ND	
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND	
Heptachlor	1.0	2.0	ND	ND	ND	ND	
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	
Methoxychlor	5.0	10.0	ND	ND	ND	ND	
Toxaphene	85.0	170.0	ND	ND	ND	ND	

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.04	85198.05	85198.06	85198.07	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150		88.0	82.0	80.8	80.8	
Tetrachloro-m-xylene	30-150		82.2	89.6	78.6	87.2	

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB2

Our Lab I.D.			**85198.08**				
Client Sample I.D.			SB028-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			11/12/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	2.0	4.0	ND				
Chlordane (Total)	2.0	4.0	ND				
Chlordane (alpha)	2.0	4.0	ND				
4,4'-DDD (DDD)	2.0	4.0	ND				
4,4'-DDE (DDE)	2.0	4.0	ND				
4,4'-DDT (DDT)	2.0	4.0	ND				
Dieldrin	2.0	4.0	ND				
Endosulfan 1	2.0	4.0	ND				
Endosulfan 11	2.0	4.0	ND				
Endosulfan sulfate	2.0	4.0	ND				
Endrin	2.0	4.0	ND				
Endrin aldehyde	2.0	4.0	ND				
Endrin ketone	2.0	4.0	ND				
Chlordane (gamma)	2.0	4.0	ND				
Heptachlor	2.0	4.0	ND				
Heptachlor epoxide	2.0	4.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND				
Methoxychlor	10	20	ND				
Toxaphene	170	340	ND				

Comment(s):
85198.08: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.08				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		81.0				
Tetrachloro-m-xylene	30-150		87.0				

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB2

Our Lab I.D.			85198.09	85198.10	85198.11	85198.12	85198.13
Client Sample I.D.			SB039-0.5	SB040-0.5	SB049-0.5	SB050-0.5	SB055-0.5
Date Sampled			11/06/2016	11/06/2016	11/06/2016	11/06/2016	11/06/2016
Date Prepared			11/11/2016	11/11/2016	11/11/2016	11/11/2016	11/11/2016
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/12/2016	11/12/2016	11/12/2016	11/12/2016	11/12/2016
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDD (DDD)	1.0	2.0	ND	ND	2.24	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	ND	16.8	ND	ND
4,4'-DDT (DDT)	1.0	2.0	ND	ND	16.4	ND	ND
Dieldrin	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	2.63	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.09	85198.10	85198.11	85198.12	85198.13
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		68.8	84.2	80.4	67.8	80.4
Tetrachloro-m-xylene	30-150		67.4	81.0	79.8	75.4	74.6

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB2

Our Lab I.D.			**85198.14**				
Client Sample I.D.			SB056-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			11/12/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	ND				
Chlordane (alpha)	5	10	ND				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	ND				
4,4'-DDT (DDT)	5	10	ND				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	ND				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

Comment(s):
85198.14: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.14				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		43.2				
Tetrachloro-m-xylene	30-150		36.6				

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB2

Our Lab I.D.			**85198.15**				
Client Sample I.D.			SB057-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			11/12/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	2.0	4.0	ND				
Chlordane (Total)	2.0	4.0	ND				
Chlordane (alpha)	2.0	4.0	ND				
4,4'-DDD (DDD)	2.0	4.0	ND				
4,4'-DDE (DDE)	2.0	4.0	ND				
4,4'-DDT (DDT)	2.0	4.0	ND				
Dieldrin	2.0	4.0	ND				
Endosulfan 1	2.0	4.0	ND				
Endosulfan 11	2.0	4.0	ND				
Endosulfan sulfate	2.0	4.0	ND				
Endrin	2.0	4.0	ND				
Endrin aldehyde	2.0	4.0	ND				
Endrin ketone	2.0	4.0	ND				
Chlordane (gamma)	2.0	4.0	ND				
Heptachlor	2.0	4.0	ND				
Heptachlor epoxide	2.0	4.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND				
Methoxychlor	10	20	ND				
Toxaphene	170	340	ND				

Comment(s):
85198.15: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.15				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		75.0				
Tetrachloro-m-xylene	30-150		86.2				

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB2

Our Lab I.D.			85198.16	85198.17	85198.18	85198.19	
Client Sample I.D.			SB062-0.5	SB064-0.5	SB065-0.5	SB066-0.5	
Date Sampled			11/06/2016	11/06/2016	11/06/2016	11/06/2016	
Date Prepared			11/11/2016	11/11/2016	11/11/2016	11/11/2016	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			11/12/2016	11/12/2016	11/12/2016	11/12/2016	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Aldrin	1.0	2.0	ND	ND	ND	ND	
Chlordane (Total)	1.0	2.0	ND	ND	10.3	4.06	
Chlordane (alpha)	1.0	2.0	ND	ND	5.13	2.18	
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	
4,4'-DDE (DDE)	1.0	2.0	7.11	ND	ND	ND	
4,4'-DDT (DDT)	1.0	2.0	6.80	ND	5.82	8.47	
Dieldrin	1.0	2.0	ND	ND	1.45J	2.10	
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	
Endrin	1.0	2.0	3.66	ND	ND	ND	
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	
Endrin ketone	1.0	2.0	ND	ND	ND	ND	
Chlordane (gamma)	1.0	2.0	ND	ND	5.20	1.88J	
Heptachlor	1.0	2.0	ND	ND	ND	ND	
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	
Methoxychlor	5.0	10.0	ND	ND	ND	ND	
Toxaphene	85.0	170.0	ND	ND	ND	ND	

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.16	85198.17	85198.18	85198.19	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150		69.8	77.4	79.0	73.8	
Tetrachloro-m-xylene	30-150		89.0	105	99.4	97.2	

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			11/14/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	ND				
Chlordane (alpha)	1.0	2.0	ND				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	ND				
4,4'-DDT (DDT)	1.0	2.0	ND				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	ND				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	85.0	170.0	ND				

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		71.2				
Tetrachloro-m-xylene	30-150		92.0				

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB3

Our Lab I.D.			85198.20				
Client Sample I.D.			SB067-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			11/14/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	2.0	4.0	ND				
Chlordane (Total)	2.0	4.0	94.9				
Chlordane (alpha)	2.0	4.0	39.4				
4,4'-DDD (DDD)	2.0	4.0	33.3				
4,4'-DDE (DDE)	2.0	4.0	1,140				
4,4'-DDT (DDT)	2.0	4.0	22.5				
Dieldrin	2.0	4.0	ND				
Endosulfan 1	2.0	4.0	ND				
Endosulfan 11	2.0	4.0	ND				
Endosulfan sulfate	2.0	4.0	ND				
Endrin	2.0	4.0	ND				
Endrin aldehyde	2.0	4.0	ND				
Endrin ketone	2.0	4.0	ND				
Chlordane (gamma)	2.0	4.0	55.5				
Heptachlor	2.0	4.0	ND				
Heptachlor epoxide	2.0	4.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND				
Methoxychlor	10	20	ND				
Toxaphene	170	340	ND				

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.20				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		71.2				
Tetrachloro-m-xylene	30-150		67.8				

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB3

Our Lab I.D.			85198.21	85198.22	85198.23	85198.24	
Client Sample I.D.			SB068-0.5	SB069-0.5	SB071-0.5	SB072-0.5	
Date Sampled			11/06/2016	11/06/2016	11/06/2016	11/06/2016	
Date Prepared			11/11/2016	11/11/2016	11/11/2016	11/11/2016	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			11/14/2016	11/14/2016	11/14/2016	11/14/2016	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Aldrin	1.0	2.0	ND	ND	ND	ND	
Chlordane (Total)	1.0	2.0	107	42.8	1.82J	ND	
Chlordane (alpha)	1.0	2.0	53.9	16.4	ND	ND	
4,4'-DDD (DDD)	1.0	2.0	7.86	26.6	ND	ND	
4,4'-DDE (DDE)	1.0	2.0	367	535	2.17	ND	
4,4'-DDT (DDT)	1.0	2.0	30.9	146	4.40	ND	
Dieldrin	1.0	2.0	6.27	5.60	ND	ND	
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	
Endrin	1.0	2.0	7.51	48.8	1.97J	ND	
Endrin aldehyde	1.0	2.0	1.07J	1.81J	ND	ND	
Endrin ketone	1.0	2.0	ND	ND	ND	ND	
Chlordane (gamma)	1.0	2.0	52.6	26.4	1.07J	ND	
Heptachlor	1.0	2.0	ND	ND	ND	ND	
Heptachlor epoxide	1.0	2.0	1.95J	ND	ND	ND	
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	
Methoxychlor	5.0	10.0	ND	ND	ND	ND	
Toxaphene	85.0	170.0	ND	ND	ND	ND	

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.21	85198.22	85198.23	85198.24	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150		77.4	80.2	71.8	82.4	
Tetrachloro-m-xylene	30-150		89.2	98.0	81.6	94.2	

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB3

Our Lab I.D.			**85198.25**				
Client Sample I.D.			SB073-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			11/14/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	2.0	4.0	ND				
Chlordane (Total)	2.0	4.0	ND				
Chlordane (alpha)	2.0	4.0	ND				
4,4'-DDD (DDD)	2.0	4.0	ND				
4,4'-DDE (DDE)	2.0	4.0	ND				
4,4'-DDT (DDT)	2.0	4.0	ND				
Dieldrin	2.0	4.0	ND				
Endosulfan 1	2.0	4.0	ND				
Endosulfan 11	2.0	4.0	ND				
Endosulfan sulfate	2.0	4.0	ND				
Endrin	2.0	4.0	ND				
Endrin aldehyde	2.0	4.0	ND				
Endrin ketone	2.0	4.0	ND				
Chlordane (gamma)	2.0	4.0	ND				
Heptachlor	2.0	4.0	ND				
Heptachlor epoxide	2.0	4.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND				
Methoxychlor	10	20	ND				
Toxaphene	170	340	ND				

Comment(s):
85198.25: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.25				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		101				
Tetrachloro-m-xylene	30-150		105				

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB3

Our Lab I.D.			85198.26				
Client Sample I.D.			SB074-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			11/14/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	ND				
Chlordane (alpha)	1.0	2.0	ND				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	ND				
4,4'-DDT (DDT)	1.0	2.0	ND				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	ND				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	85.0	170.0	ND				

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.26				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		68.8				
Tetrachloro-m-xylene	30-150		91.2				

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB3

Our Lab I.D.			**85198.27**				
Client Sample I.D.			SB075-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			11/15/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	2.0	4.0	ND				
Chlordane (Total)	2.0	4.0	ND				
Chlordane (alpha)	2.0	4.0	ND				
4,4'-DDD (DDD)	2.0	4.0	ND				
4,4'-DDE (DDE)	2.0	4.0	ND				
4,4'-DDT (DDT)	2.0	4.0	ND				
Dieldrin	2.0	4.0	ND				
Endosulfan 1	2.0	4.0	ND				
Endosulfan 11	2.0	4.0	ND				
Endosulfan sulfate	2.0	4.0	ND				
Endrin	2.0	4.0	ND				
Endrin aldehyde	2.0	4.0	ND				
Endrin ketone	2.0	4.0	ND				
Chlordane (gamma)	2.0	4.0	ND				
Heptachlor	2.0	4.0	ND				
Heptachlor epoxide	2.0	4.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND				
Methoxychlor	10	20	ND				
Toxaphene	170	340	ND				

Comment(s):
85198.27: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.27				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		116				
Tetrachloro-m-xylene	30-150		107				

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB3

Our Lab I.D.			85198.28				
Client Sample I.D.			SB076-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			11/15/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	ND				
Chlordane (alpha)	1.0	2.0	ND				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	ND				
4,4'-DDT (DDT)	1.0	2.0	ND				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	ND				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	85.0	170.0	ND				

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.28				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		99.2				
Tetrachloro-m-xylene	30-150		103				

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			11/15/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	ND				
Chlordane (alpha)	1.0	2.0	ND				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	ND				
4,4'-DDT (DDT)	1.0	2.0	ND				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	ND				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	85.0	170.0	ND				

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		86.6				
Tetrachloro-m-xylene	30-150		67.4				

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB4

Our Lab I.D.			**85198.29**				
Client Sample I.D.			SB077-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			11/15/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	8.62J				
Chlordane (alpha)	5	10	ND				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	6.52J				
4,4'-DDT (DDT)	5	10	8.72J				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	ND				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.29				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		124				
Tetrachloro-m-xylene	30-150		99.4				

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB4

Our Lab I.D.			85198.30	85198.31			
Client Sample I.D.			SB079-0.5	SB080-0.5			
Date Sampled			11/06/2016	11/06/2016			
Date Prepared			11/11/2016	11/11/2016			
Preparation Method			3550B	3550B			
Date Analyzed			11/15/2016	11/15/2016			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			2	2			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	2.0	4.0	ND	ND			
Chlordane (Total)	2.0	4.0	ND	11.4			
Chlordane (alpha)	2.0	4.0	ND	6.31			
4,4'-DDD (DDD)	2.0	4.0	ND	ND			
4,4'-DDE (DDE)	2.0	4.0	ND	ND			
4,4'-DDT (DDT)	2.0	4.0	ND	2.50J			
Dieldrin	2.0	4.0	ND	ND			
Endosulfan 1	2.0	4.0	ND	ND			
Endosulfan 11	2.0	4.0	ND	ND			
Endosulfan sulfate	2.0	4.0	ND	ND			
Endrin	2.0	4.0	ND	ND			
Endrin aldehyde	2.0	4.0	ND	ND			
Endrin ketone	2.0	4.0	ND	ND			
Chlordane (gamma)	2.0	4.0	ND	5.11			
Heptachlor	2.0	4.0	ND	ND			
Heptachlor epoxide	2.0	4.0	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND	ND			
Methoxychlor	10	20	ND	ND			
Toxaphene	170	340	ND	ND			

Comment(s):
85198.30: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.30	85198.31			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		108	115			
Tetrachloro-m-xylene	30-150		107	102			

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB4

Our Lab I.D.			**85198.32**				
Client Sample I.D.			SB081-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			11/15/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	ND				
Chlordane (alpha)	5	10	ND				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	ND				
4,4'-DDT (DDT)	5	10	ND				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	ND				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

Comment(s):
85198.32: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85198.32				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		108				
Tetrachloro-m-xylene	30-150		111				

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QUALITY CONTROL RESULTS

Ordered By

Clark Seif Clark, Inc
110 Pine Ave
Suite 925
Long Beach, CA 90802-

Telephone: (562)435-8080
Attn: Aaron Garrett
Page: **40**

AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB2; Dup or Spiked Sample: 85198.17; LCS: Clean Sand; QC Prepared: 11/11/2016; QC Analyzed: 11/12/2016; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	15.8	79.0	20.0	15.7	78.5	<1	40-150	<40
4,4'-DDT (DDT)	0.00	50.0	26.0	52.0	50.0	23.5	47.0	10.1	40-150	<40
Dieldrin	0.00	50.0	39.1	78.2	50.0	37.1	74.2	5.25	40-150	<40
Endrin	0.00	50.0	54.5	109	50.0	46.2	92.4	16.5	40-150	<40
Heptachlor	0.00	20.0	15.2	76.0	20.0	14.7	73.5	3.34	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	16.5	82.5	20.0	16.2	81.0	1.83	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	34.5	69.0	50.0	36.6	73.2	6.09	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	51.0	102	50.0	50.0	100	1.96	30-150	<40

QC Batch No: 111116EB2; Dup or Spiked Sample: 85198.17; LCS: Clean Sand; QC Prepared: 11/11/2016; QC Analyzed: 11/12/2016; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	11.8	59.0	20.0	11.8	59.0	<1	50-150	<40	
4,4'-DDT (DDT)	50.0	25.9	51.8	50.0	26.5	53.0	2.29	50-150	<40	
Dieldrin	50.0	35.4	70.8	50.0	36.0	72.0	1.68	50-150	<40	
Endrin	50.0	52.0	104	50.0	52.5	105	<1	50-150	<40	
Heptachlor	20.0	11.7	58.5	20.0	12.2	61.0	4.18	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	12.5	62.5	20.0	13.0	65.0	3.92	50-150	<40	
Surrogates										
Decachlorobiphenyl	50.0	35.4	70.8	50.0	35.1	70.2	<1	30-150	<40	
Tetrachloro-m-xylene	50.0	36.5	73.0	50.0	39.0	78.0	6.85	30-150	<40	

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB3; Dup or Spiked Sample: 85198.28; LCS: Clean Sand; QC Prepared: 11/11/2016; QC Analyzed: 11/14/2016; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	15.3	76.5	20.0	15.9	79.5	3.85	40-150	<40
4,4'-DDT (DDT)	0.00	50.0	25.0	50.0	50.0	25.8	51.6	3.15	40-150	<40
Dieldrin	0.00	50.0	38.1	76.2	50.0	39.6	79.2	3.86	40-150	<40
Endrin	0.00	50.0	65.5	131	50.0	70.0	140	6.64	40-150	<40
Heptachlor	0.00	20.0	14.8	74.0	20.0	15.4	77.0	3.97	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	15.5	77.5	20.0	16.3	81.5	5.03	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	43.5	87.0	50.0	44.3	88.6	1.84	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	50.0	100	50.0	54.0	108	8.00	30-150	<40

QC Batch No: 111116EB3; Dup or Spiked Sample: 85198.28; LCS: Clean Sand; QC Prepared: 11/11/2016; QC Analyzed: 11/14/2016; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	12.3	61.5	20.0	16.5	82.5	29.2	50-150	<40	
4,4'-DDT (DDT)	50.0	25.4	50.8	50.0	30.7	61.4	18.9	50-150	<40	
Dieldrin	50.0	33.2	66.4	50.0	41.1	82.2	21.3	50-150	<40	
Endrin	50.0	39.7	79.4	50.0	46.5	93.0	15.8	50-150	<40	
Heptachlor	20.0	11.5	57.5	20.0	15.6	78.0	30.3	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	12.5	62.5	20.0	16.9	84.5	29.9	50-150	<40	
Surrogates										
Decachlorobiphenyl	50.0	35.7	71.4	50.0	42.1	84.2	17.9	30-150	<40	
Tetrachloro-m-xylene	50.0	34.0	68.0	50.0	52.0	104	52.9	30-150	<40	

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AETL Job Number	Submitted	Client
85198	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111116EB4; Dup or Spiked Sample: 85246.24; LCS: Clean Sand; QC Prepared: 11/11/2016;MS Analyzed: 11/15/2016; LCS Analyzed: 11/14/2016; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	16.9	84.5	20.0	15.3	76.5	9.94	40-150	<40
4,4'-DDT (DDT)	0.00	50.0	61.5	123	50.0	56.0	112	9.36	40-150	<40
Dieldrin	0.00	50.0	44.0	88.0	50.0	39.7	79.4	10.3	40-150	<40
Endrin	0.00	50.0	71.5	143	50.0	65.0	130	9.52	40-150	<40
Heptachlor	0.00	20.0	15.9	79.5	20.0	13.9	69.5	13.4	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	17.2	86.0	20.0	15.2	76.0	12.3	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	48.5	97.0	50.0	46.2	92.4	4.74	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	52.5	105	50.0	48.3	96.6	8.00	30-150	<40

QC Batch No: 111116EB4; Dup or Spiked Sample: 85246.24; LCS: Clean Sand; QC Prepared: 11/11/2016;MS Analyzed: 11/15/2016; LCS Analyzed: 11/14/2016; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	16.1	80.5	20.0	12.8	64.0	22.8	50-150	<40	
4,4'-DDT (DDT)	50.0	51.0	102	50.0	48.3	96.6	5.44	50-150	<40	
Dieldrin	50.0	40.5	81.0	50.0	35.8	71.6	12.3	50-150	<40	
Endrin	50.0	60.0	120	50.0	53.5	107	11.5	50-150	<40	
Heptachlor	20.0	14.9	74.5	20.0	12.1	60.5	20.7	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	16.6	83.0	20.0	12.9	64.5	25.1	50-150	<40	
Surrogates										
Decachlorobiphenyl	50.0	42.1	84.2	50.0	42.2	84.4	<1	30-150	<40	
Tetrachloro-m-xylene	50.0	52.5	105	50.0	36.5	73.0	30.5	30-150	<40	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

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Telephone: (562)435-8080
Attention: Aaron Garrett

Number of Pages	**51**
Date Received	**11/08/2016**
Date Reported	**11/21/2016**

Job Number	Order Date	Client
85199	11/08/2016	CSC-LB

Enclosed please find results of analyses of 31 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670

Tel. (562) 926-9848 FAX (562) 926-6324 Email: ChemtekLabs@hotmail.com

CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CSC

CHAIN OF CUSTODY RECORD

Job No.: 85199

Page: 3 of

CUSTOMER INFORMATION

COMPANY NAME: CSC

PROJECT CONTACT: Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.

SITE ADDRESS:

SAMPLED BY: ☐ EDF

Turn Around Time NORM ☑ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time REMARKS Preserved	NO. OF CONT
1	SB82-0.5	11/8		SO	85199.01	
2	83-0.5				85199.02	
3	84-0.5				85199.03	
4	85-0.5				85199.04	
5	86-0.5				85199.05	
6	87-0.5				85199.06	
7	88-0.5				85199.07	
8	89-0.5				85199.08	
9	90-0.5				85199.09	
10	91-0.5				85199.10	
11	92-0.5				85199.11	
12	93-0.5				85199.12	
13	94-0.5				85199.13	
14	95-0.5				85199.14	
15	96-0.5				85199.15	
16	97.03				85199.16	

ANALYSIS REQUIRED

8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	X08 Pesticides				

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Jason Cassett	CSI	11/8/16	230
RECEIVED BY:	Sangisp	AETL	11/8/16	1430
RELINQUISHED BY:	Sangisp	AETL	11-8-16	1930
RECEIVED FOR LABORATORY BY:	Jean Sande	AETL	11/08/16	1930

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

*Type: **SO**-Soil **GW**-Ground Water **WW**-Waste Water **AQ**-Aqueous **A**-Air **OT**-Other

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670

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CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CSC

CHAIN OF CUSTODY RECORD

Job No.: 85199

Page: 4 of 4

CUSTOMER INFORMATION

COMPANY NAME: CSC

PROJECT CONTACT: Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.

SITE ADDRESS:

SAMPLED BY: ☐ EDF

Turn Around Time NORM ☑ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time REMARKS Preserved	NO. OF CONT
1	~~SD~~ SD 698-0.5	11/5		SO	85199.17	
2	99-0.5				85199.18	
3	100-0.5				85199.19	
4	101-0.5				85199.20	
5	102-0.5				85199.21	
6	103-0.5				85199.22	
7	104-0.5				85199.23	
8	105-0.5				85199.24	
9	106-0.5				85199.25	
10	107-0.5				85199.26	
11	108-0.5				85199.27	
12	109-0.5				85199.28	
13	SD038-0.5				85199.29	
14	44-0.5				85199.30	
15	45-0.5				85199.31	
16						

ANALYSIS REQUIRED

8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	EPA 8081 A				

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	x	Aaron Garrett	CSC	11/8/16	2:30pm
RECEIVED BY:		Sangisp	AETL	11/8/16	14 30
RELINQUISHED BY:		Sangisp	AETL	11-8-16	1930
RECEIVED FOR LABORATORY BY		Jena Jaude	AETL	11/08/16	1930

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

***Type**: **SO**-Soil **GW**-Ground Water **WW**-Waste Water **AQ**-Aqueous **A**-Air **OT**-Other

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Ordered By

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Telephone: (562)435-8080
Attention: Aaron Garrett

Project ID: None
Date Received 11/08/2016
Date Reported 11/21/2016

Job Number	Order Date	Client
85199	11/08/2016	CSC-LB

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 31 samples with the following specification on 11/08/2016.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
85199.01	SB82-0.5	11/06/2016	Soil	1
85199.02	SB83-0.5	11/06/2016	Soil	1
85199.03	SB84-0.5	11/06/2016	Soil	1
85199.04	SB85-0.5	11/06/2016	Soil	1
85199.05	SB86-0.5	11/06/2016	Soil	1
85199.06	SB87-0.5	11/06/2016	Soil	1
85199.07	SB88-0.5	11/06/2016	Soil	1
85199.08	SB89-0.5	11/06/2016	Soil	1
85199.09	SB90-0.5	11/06/2016	Soil	1
85199.10	SB91-0.5	11/06/2016	Soil	1
85199.11	SB92-0.5	11/06/2016	Soil	1
85199.12	SB93-0.5	11/06/2016	Soil	1
85199.13	SB94-0.5	11/06/2016	Soil	1
85199.14	SB95-0.5	11/06/2016	Soil	1
85199.15	SB96-0.5	11/06/2016	Soil	1
85199.16	SB97-0.5	11/06/2016	Soil	1
85199.17	SB98-0.5	11/05/2016	Soil	1
85199.18	SB99-0.5	11/05/2016	Soil	1
85199.19	SB100-0.5	11/05/2016	Soil	1
85199.20	SB101-0.5	11/05/2016	Soil	1
85199.21	SB102-0.5	11/05/2016	Soil	1
85199.22	SB103-0.5	11/05/2016	Soil	1
85199.23	SB104-0.5	11/05/2016	Soil	1
85199.24	SB105-0.5	11/05/2016	Soil	1

Continued

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Telephone: (562)435-8080
Attention: Aaron Garrett

Project ID: None
Date Received 11/08/2016
Date Reported 11/21/2016

Job Number	Order Date	Client
85199	11/08/2016	CSC-LB

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

85199.25	SB106-0.5	11/05/2016	Soil	1
85199.26	SB107-0.5	11/05/2016	Soil	1
85199.27	SB108-0.5	11/05/2016	Soil	1
85199.28	SB109-0.5	11/05/2016	Soil	1
85199.29	SB038-0.5	11/05/2016	Soil	1
85199.30	SB044-0.5	11/05/2016	Soil	1
85199.31	SB045-0.5	11/05/2016	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(8081A)	11/15/2016	2	Normal	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Attn: Aaron Garrett
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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/15/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	ND				
Chlordane (alpha)	1.0	2.0	ND				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	ND				
4,4'-DDT (DDT)	1.0	2.0	ND				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	ND				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	85.0	170.0	ND				

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		78.6				
Tetrachloro-m-xylene	30-150		95.4				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			**85199.01**				
Client Sample I.D.			SB82-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/15/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	2.0	4.0	ND				
Chlordane (Total)	2.0	4.0	9.44				
Chlordane (alpha)	2.0	4.0	4.09				
4,4'-DDD (DDD)	2.0	4.0	ND				
4,4'-DDE (DDE)	2.0	4.0	5.79				
4,4'-DDT (DDT)	2.0	4.0	ND				
Dieldrin	2.0	4.0	2.53J				
Endosulfan 1	2.0	4.0	ND				
Endosulfan 11	2.0	4.0	ND				
Endosulfan sulfate	2.0	4.0	ND				
Endrin	2.0	4.0	ND				
Endrin aldehyde	2.0	4.0	ND				
Endrin ketone	2.0	4.0	ND				
Chlordane (gamma)	2.0	4.0	5.35				
Heptachlor	2.0	4.0	ND				
Heptachlor epoxide	2.0	4.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND				
Methoxychlor	10	20	ND				
Toxaphene	170	340	ND				

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.01				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		88.8				
Tetrachloro-m-xylene	30-150		79.6				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			85199.02				
Client Sample I.D.			SB83-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/15/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	ND				
Chlordane (alpha)	5	10	ND				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	ND				
4,4'-DDT (DDT)	5	10	ND				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	ND				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

Comment(s):
85199.02: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.02				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		90.2				
Tetrachloro-m-xylene	30-150		58.6				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			85199.03	85199.04	85199.05		
Client Sample I.D.			SB84-0.5	SB85-0.5	SB86-0.5		
Date Sampled			11/06/2016	11/06/2016	11/06/2016		
Date Prepared			11/14/2016	11/14/2016	11/14/2016		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			11/15/2016	11/16/2016	11/16/2016		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Aldrin	1.0	2.0	ND	ND	ND		
Chlordane (Total)	1.0	2.0	ND	ND	ND		
Chlordane (alpha)	1.0	2.0	ND	ND	ND		
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND		
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND		
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND		
Dieldrin	1.0	2.0	ND	ND	ND		
Endosulfan 1	1.0	2.0	ND	ND	ND		
Endosulfan 11	1.0	2.0	ND	ND	ND		
Endosulfan sulfate	1.0	2.0	ND	ND	ND		
Endrin	1.0	2.0	ND	ND	ND		
Endrin aldehyde	1.0	2.0	ND	ND	ND		
Endrin ketone	1.0	2.0	ND	ND	ND		
Chlordane (gamma)	1.0	2.0	ND	ND	ND		
Heptachlor	1.0	2.0	ND	ND	ND		
Heptachlor epoxide	1.0	2.0	ND	ND	ND		
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND		
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND		
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND		
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND		
Methoxychlor	5.0	10.0	ND	ND	ND		
Toxaphene	85.0	170.0	ND	ND	ND		

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.03	85199.04	85199.05		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		63.0	61.8	71.2		
Tetrachloro-m-xylene	30-150		85.8	88.2	95.0		

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			**85199.06**				
Client Sample I.D.			SB87-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	10	20	ND				
Chlordane (Total)	10	20	ND				
Chlordane (alpha)	10	20	ND				
4,4'-DDD (DDD)	10	20	ND				
4,4'-DDE (DDE)	10	20	ND				
4,4'-DDT (DDT)	10	20	ND				
Dieldrin	10	20	ND				
Endosulfan 1	10	20	ND				
Endosulfan 11	10	20	ND				
Endosulfan sulfate	10	20	ND				
Endrin	10	20	ND				
Endrin aldehyde	10	20	ND				
Endrin ketone	10	20	ND				
Chlordane (gamma)	10	20	ND				
Heptachlor	10	20	ND				
Heptachlor epoxide	10	20	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	10	20	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	10	20	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	10	20	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	10	20	ND				
Methoxychlor	50	100	ND				
Toxaphene	850	1700	ND				

Comment(s):
85199.06: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.06				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		80.0				
Tetrachloro-m-xylene	30-150		68.6				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			**85199.07**				
Client Sample I.D.			SB88-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	131				
Chlordane (alpha)	5	10	59.7				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	ND				
4,4'-DDT (DDT)	5	10	ND				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	71.2				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.07				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		59.0				
Tetrachloro-m-xylene	30-150		83.2				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			**85199.08**				
Client Sample I.D.			SB89-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	10	20	ND				
Chlordane (Total)	10	20	ND				
Chlordane (alpha)	10	20	ND				
4,4'-DDD (DDD)	10	20	12.6J				
4,4'-DDE (DDE)	10	20	ND				
4,4'-DDT (DDT)	10	20	17.4J				
Dieldrin	10	20	10.1J				
Endosulfan 1	10	20	ND				
Endosulfan 11	10	20	ND				
Endosulfan sulfate	10	20	ND				
Endrin	10	20	ND				
Endrin aldehyde	10	20	ND				
Endrin ketone	10	20	ND				
Chlordane (gamma)	10	20	ND				
Heptachlor	10	20	ND				
Heptachlor epoxide	10	20	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	10	20	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	10	20	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	10	20	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	10	20	ND				
Methoxychlor	50	100	ND				
Toxaphene	850	1700	ND				

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.08				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		77.8				
Tetrachloro-m-xylene	30-150		64.6				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			**85199.09**				
Client Sample I.D.			SB90-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	ND				
Chlordane (alpha)	5	10	ND				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	ND				
4,4'-DDT (DDT)	5	10	ND				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	ND				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

Comment(s):
85199.09: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.09				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		76.4				
Tetrachloro-m-xylene	30-150		67.2				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			**85199.10**				
Client Sample I.D.			SB91-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	4.18				
Chlordane (alpha)	1.0	2.0	1.82J				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	ND				
4,4'-DDT (DDT)	1.0	2.0	ND				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	2.36				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	85.0	170.0	ND				

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.10				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		57.6				
Tetrachloro-m-xylene	30-150		79.8				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			**85199.11**				
Client Sample I.D.			SB92-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	2.0	4.0	ND				
Chlordane (Total)	2.0	4.0	ND				
Chlordane (alpha)	2.0	4.0	ND				
4,4'-DDD (DDD)	2.0	4.0	ND				
4,4'-DDE (DDE)	2.0	4.0	ND				
4,4'-DDT (DDT)	2.0	4.0	ND				
Dieldrin	2.0	4.0	ND				
Endosulfan 1	2.0	4.0	ND				
Endosulfan 11	2.0	4.0	ND				
Endosulfan sulfate	2.0	4.0	ND				
Endrin	2.0	4.0	ND				
Endrin aldehyde	2.0	4.0	ND				
Endrin ketone	2.0	4.0	ND				
Chlordane (gamma)	2.0	4.0	ND				
Heptachlor	2.0	4.0	ND				
Heptachlor epoxide	2.0	4.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND				
Methoxychlor	10	20	ND				
Toxaphene	170	340	ND				

Comment(s):
85199.11: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.11				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		78.0				
Tetrachloro-m-xylene	30-150		74.6				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			**85199.12**				
Client Sample I.D.			SB93-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	ND				
Chlordane (alpha)	5	10	ND				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	ND				
4,4'-DDT (DDT)	5	10	ND				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	ND				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

Comment(s):
85199.12: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.12				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		111				
Tetrachloro-m-xylene	30-150		63.4				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			**85199.13**				
Client Sample I.D.			SB94-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	10	20	ND				
Chlordane (Total)	10	20	98.4				
Chlordane (alpha)	10	20	45.5				
4,4'-DDD (DDD)	10	20	ND				
4,4'-DDE (DDE)	10	20	ND				
4,4'-DDT (DDT)	10	20	16.4J				
Dieldrin	10	20	ND				
Endosulfan 1	10	20	ND				
Endosulfan 11	10	20	ND				
Endosulfan sulfate	10	20	ND				
Endrin	10	20	ND				
Endrin aldehyde	10	20	ND				
Endrin ketone	10	20	ND				
Chlordane (gamma)	10	20	52.9				
Heptachlor	10	20	ND				
Heptachlor epoxide	10	20	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	10	20	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	10	20	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	10	20	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	10	20	ND				
Methoxychlor	50	100	ND				
Toxaphene	850	1700	ND				

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.13				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		67.4				
Tetrachloro-m-xylene	30-150		69.4				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			**85199.14**				
Client Sample I.D.			SB95-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	ND				
Chlordane (alpha)	5	10	ND				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	ND				
4,4'-DDT (DDT)	5	10	ND				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	ND				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

Comment(s):
85199.14: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.14				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		66.8				
Tetrachloro-m-xylene	30-150		71.2				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			85199.15	85199.16			
Client Sample I.D.			SB96-0.5	SB97-0.5			
Date Sampled			11/06/2016	11/06/2016			
Date Prepared			11/14/2016	11/14/2016			
Preparation Method			3550B	3550B			
Date Analyzed			11/16/2016	11/16/2016			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	10	20	ND	ND			
Chlordane (Total)	10	20	ND	ND			
Chlordane (alpha)	10	20	ND	ND			
4,4'-DDD (DDD)	10	20	ND	ND			
4,4'-DDE (DDE)	10	20	ND	ND			
4,4'-DDT (DDT)	10	20	ND	ND			
Dieldrin	10	20	ND	ND			
Endosulfan 1	10	20	ND	ND			
Endosulfan 11	10	20	ND	ND			
Endosulfan sulfate	10	20	ND	ND			
Endrin	10	20	ND	ND			
Endrin aldehyde	10	20	ND	ND			
Endrin ketone	10	20	ND	ND			
Chlordane (gamma)	10	20	ND	ND			
Heptachlor	10	20	ND	ND			
Heptachlor epoxide	10	20	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	10	20	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	10	20	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	10	20	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	10	20	ND	ND			
Methoxychlor	50	100	ND	ND			
Toxaphene	850	1700	ND	ND			

Comment(s):
85199.15: Analyzed under dilution due to matrix interference 85199.16: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.15	85199.16			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		115	102			
Tetrachloro-m-xylene	30-150		88.8	95.4			

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			85199.17				
Client Sample I.D.			SB98-0.5				
Date Sampled			11/05/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	18.0				
Chlordane (alpha)	5	10	8.31J				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	ND				
4,4'-DDT (DDT)	5	10	ND				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	9.73J				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.17				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		67.6				
Tetrachloro-m-xylene	30-150		89.2				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			**85199.18**				
Client Sample I.D.			SB99-0.5				
Date Sampled			11/05/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	10	20	ND				
Chlordane (Total)	10	20	ND				
Chlordane (alpha)	10	20	ND				
4,4'-DDD (DDD)	10	20	ND				
4,4'-DDE (DDE)	10	20	ND				
4,4'-DDT (DDT)	10	20	ND				
Dieldrin	10	20	ND				
Endosulfan 1	10	20	ND				
Endosulfan 11	10	20	ND				
Endosulfan sulfate	10	20	ND				
Endrin	10	20	ND				
Endrin aldehyde	10	20	ND				
Endrin ketone	10	20	ND				
Chlordane (gamma)	10	20	ND				
Heptachlor	10	20	ND				
Heptachlor epoxide	10	20	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	10	20	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	10	20	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	10	20	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	10	20	ND				
Methoxychlor	50	100	ND				
Toxaphene	850	1700	ND				

Comment(s):
85199.18: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.18				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		94.2				
Tetrachloro-m-xylene	30-150		78.8				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2

Our Lab I.D.			85199.19	85199.20			
Client Sample I.D.			SB100-0.5	SB101-0.5			
Date Sampled			11/05/2016	11/05/2016			
Date Prepared			11/14/2016	11/14/2016			
Preparation Method			3550B	3550B			
Date Analyzed			11/16/2016	11/16/2016			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	1.0	2.0	ND	ND			
Chlordane (Total)	1.0	2.0	16.9	ND			
Chlordane (alpha)	1.0	2.0	8.46	ND			
4,4'-DDD (DDD)	1.0	2.0	1.14J	7.99			
4,4'-DDE (DDE)	1.0	2.0	8.08	213			
4,4'-DDT (DDT)	1.0	2.0	8.20	5.41			
Dieldrin	1.0	2.0	1.62J	ND			
Endosulfan 1	1.0	2.0	ND	ND			
Endosulfan 11	1.0	2.0	ND	ND			
Endosulfan sulfate	1.0	2.0	ND	ND			
Endrin	1.0	2.0	1.89J	ND			
Endrin aldehyde	1.0	2.0	1.66J	ND			
Endrin ketone	1.0	2.0	ND	ND			
Chlordane (gamma)	1.0	2.0	8.81	ND			
Heptachlor	1.0	2.0	ND	ND			
Heptachlor epoxide	1.0	2.0	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND			
Methoxychlor	5.0	10.0	ND	ND			
Toxaphene	85.0	170.0	ND	ND			

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.19	85199.20			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		85.2	83.2			
Tetrachloro-m-xylene	30-150		88.2	94.6			

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ANALYTICAL RESULTS

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB3

Our Lab I.D.			Method Blank	85199.21			
Client Sample I.D.				SB102-0.5			
Date Sampled				11/05/2016			
Date Prepared			11/14/2016	11/14/2016			
Preparation Method			3550B	3550B			
Date Analyzed			11/16/2016	11/16/2016			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	1.0	2.0	ND	ND			
Chlordane (Total)	1.0	2.0	ND	ND			
Chlordane (alpha)	1.0	2.0	ND	ND			
4,4'-DDD (DDD)	1.0	2.0	ND	ND			
4,4'-DDE (DDE)	1.0	2.0	ND	ND			
4,4'-DDT (DDT)	1.0	2.0	ND	ND			
Dieldrin	1.0	2.0	ND	ND			
Endosulfan 1	1.0	2.0	ND	ND			
Endosulfan 11	1.0	2.0	ND	ND			
Endosulfan sulfate	1.0	2.0	ND	ND			
Endrin	1.0	2.0	ND	ND			
Endrin aldehyde	1.0	2.0	ND	ND			
Endrin ketone	1.0	2.0	ND	ND			
Chlordane (gamma)	1.0	2.0	ND	ND			
Heptachlor	1.0	2.0	ND	ND			
Heptachlor epoxide	1.0	2.0	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND			
Methoxychlor	5.0	10.0	ND	ND			
Toxaphene	85.0	170.0	ND	ND			

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	**85199.21**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	30-150		86.0	92.0			
Tetrachloro-m-xylene	30-150		100	104			

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB3

Our Lab I.D.			**85199.22**				
Client Sample I.D.			SB103-0.5				
Date Sampled			11/05/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	10	20	ND				
Chlordane (Total)	10	20	ND				
Chlordane (alpha)	10	20	ND				
4,4'-DDD (DDD)	10	20	ND				
4,4'-DDE (DDE)	10	20	ND				
4,4'-DDT (DDT)	10	20	ND				
Dieldrin	10	20	ND				
Endosulfan 1	10	20	ND				
Endosulfan 11	10	20	ND				
Endosulfan sulfate	10	20	ND				
Endrin	10	20	ND				
Endrin aldehyde	10	20	ND				
Endrin ketone	10	20	ND				
Chlordane (gamma)	10	20	ND				
Heptachlor	10	20	ND				
Heptachlor epoxide	10	20	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	10	20	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	10	20	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	10	20	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	10	20	ND				
Methoxychlor	50	100	ND				
Toxaphene	850	1700	ND				

Comment(s):
85199.22: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.22				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		147				
Tetrachloro-m-xylene	30-150		115				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB3

Our Lab I.D.			85199.23	85199.24			
Client Sample I.D.			SB104-0.5	SB105-0.5			
Date Sampled			11/05/2016	11/05/2016			
Date Prepared			11/14/2016	11/14/2016			
Preparation Method			3550B	3550B			
Date Analyzed			11/16/2016	11/16/2016			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	1.0	2.0	ND	ND			
Chlordane (Total)	1.0	2.0	ND	232			
Chlordane (alpha)	1.0	2.0	ND	116			
4,4'-DDD (DDD)	1.0	2.0	ND	2.29			
4,4'-DDE (DDE)	1.0	2.0	ND	3.12			
4,4'-DDT (DDT)	1.0	2.0	ND	4.87			
Dieldrin	1.0	2.0	ND	3.42			
Endosulfan 1	1.0	2.0	ND	ND			
Endosulfan 11	1.0	2.0	ND	ND			
Endosulfan sulfate	1.0	2.0	ND	ND			
Endrin	1.0	2.0	ND	ND			
Endrin aldehyde	1.0	2.0	ND	ND			
Endrin ketone	1.0	2.0	ND	ND			
Chlordane (gamma)	1.0	2.0	ND	116			
Heptachlor	1.0	2.0	ND	ND			
Heptachlor epoxide	1.0	2.0	ND	17.5			
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND			
Methoxychlor	5.0	10.0	ND	ND			
Toxaphene	85.0	170.0	ND	ND			

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.23	85199.24			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		100	109			
Tetrachloro-m-xylene	30-150		101	99.8			

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB3

Our Lab I.D.			**85199.25**				
Client Sample I.D.			SB106-0.5				
Date Sampled			11/05/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	ND				
Chlordane (alpha)	5	10	ND				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	ND				
4,4'-DDT (DDT)	5	10	ND				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	ND				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

Comment(s):
85199.25: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.25				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		106				
Tetrachloro-m-xylene	30-150		91.6				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB3

Our Lab I.D.			85199.26	85199.27			
Client Sample I.D.			SB107-0.5	SB108-0.5			
Date Sampled			11/05/2016	11/05/2016			
Date Prepared			11/14/2016	11/14/2016			
Preparation Method			3550B	3550B			
Date Analyzed			11/16/2016	11/16/2016			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	1.0	2.0	ND	ND			
Chlordane (Total)	1.0	2.0	ND	7.71			
Chlordane (alpha)	1.0	2.0	ND	4.03			
4,4'-DDD (DDD)	1.0	2.0	ND	ND			
4,4'-DDE (DDE)	1.0	2.0	6.82	34.8			
4,4'-DDT (DDT)	1.0	2.0	1.44J	1.79J			
Dieldrin	1.0	2.0	3.89	2.14			
Endosulfan 1	1.0	2.0	ND	ND			
Endosulfan 11	1.0	2.0	ND	ND			
Endosulfan sulfate	1.0	2.0	ND	ND			
Endrin	1.0	2.0	ND	ND			
Endrin aldehyde	1.0	2.0	ND	ND			
Endrin ketone	1.0	2.0	ND	ND			
Chlordane (gamma)	1.0	2.0	ND	3.68			
Heptachlor	1.0	2.0	ND	ND			
Heptachlor epoxide	1.0	2.0	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND			
Methoxychlor	5.0	10.0	ND	ND			
Toxaphene	85.0	170.0	ND	ND			

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.26	85199.27			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		74.6	104			
Tetrachloro-m-xylene	30-150		70.6	105			

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB3

Our Lab I.D.			**85199.28**				
Client Sample I.D.			SB109-0.5				
Date Sampled			11/05/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	ND				
Chlordane (alpha)	5	10	ND				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	ND				
4,4'-DDT (DDT)	5	10	ND				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	ND				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

Comment(s):
85199.28: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.28				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		140				
Tetrachloro-m-xylene	30-150		94.0				

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB3

Our Lab I.D.			85199.29	85199.30	85199.31		
Client Sample I.D.			SB038-0.5	SB044-0.5	SB045-0.5		
Date Sampled			11/05/2016	11/05/2016	11/05/2016		
Date Prepared			11/14/2016	11/14/2016	11/14/2016		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			11/16/2016	11/16/2016	11/16/2016		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Aldrin	1.0	2.0	ND	ND	ND		
Chlordane (Total)	1.0	2.0	2.09	ND	ND		
Chlordane (alpha)	1.0	2.0	ND	ND	ND		
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND		
4,4'-DDE (DDE)	1.0	2.0	1.47J	ND	ND		
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND		
Dieldrin	1.0	2.0	ND	ND	ND		
Endosulfan 1	1.0	2.0	ND	ND	ND		
Endosulfan 11	1.0	2.0	ND	ND	ND		
Endosulfan sulfate	1.0	2.0	ND	ND	ND		
Endrin	1.0	2.0	ND	ND	ND		
Endrin aldehyde	1.0	2.0	ND	ND	ND		
Endrin ketone	1.0	2.0	ND	ND	ND		
Chlordane (gamma)	1.0	2.0	1.38J	ND	ND		
Heptachlor	1.0	2.0	ND	ND	ND		
Heptachlor epoxide	1.0	2.0	ND	ND	ND		
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND		
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND		
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND		
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND		
Methoxychlor	5.0	10.0	ND	ND	ND		
Toxaphene	85.0	170.0	ND	ND	ND		

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ANALYTICAL RESULTS

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85199.29	85199.30	85199.31		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		116	116	115		
Tetrachloro-m-xylene	30-150		83.8	93.8	95.0		

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QUALITY CONTROL RESULTS

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AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB2; Dup or Spiked Sample: 85199.03; LCS: Clean Sand; QC Prepared: 11/14/2016;MS Analyzed: 11/16/2016; LCS Analyzed: 11/15/2016; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	10.8	54.0	20.0	12.5	62.5	14.6	40-150	<40
4,4'-DDT (DDT)	0.00	50.0	27.9	55.8	50.0	30.5	61.0	8.90	40-150	<40
Dieldrin	0.00	50.0	26.4	52.8	50.0	30.2	60.4	13.4	40-150	<40
Endrin	0.00	50.0	53.2	106	50.0	61.3	123	14.8	40-150	<40
Heptachlor	0.00	20.0	11.3	56.5	20.0	13.4	67.0	17.0	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	14.6	73.0	20.0	13.3	66.5	9.32	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	30.8	61.6	50.0	33.3	66.6	8.12	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	39.6	79.2	50.0	45.6	91.2	15.2	30-150	<40

QC Batch No: 111416EB2; Dup or Spiked Sample: 85199.03; LCS: Clean Sand; QC Prepared: 11/14/2016;MS Analyzed: 11/16/2016; LCS Analyzed: 11/15/2016; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	13.7	68.5	20.0	13.5	67.5	1.47	50-150	<40	
4,4'-DDT (DDT)	50.0	30.3	60.6	50.0	30.3	60.6	<1	50-150	<40	
Dieldrin	50.0	34.5	69.0	50.0	35.1	70.2	1.72	50-150	<40	
Endrin	50.0	61.8	124	50.0	62.4	125	<1	50-150	<40	
Heptachlor	20.0	14.7	73.5	20.0	14.6	73.0	<1	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	14.7	73.5	20.0	14.5	72.5	1.37	50-150	<40	
Surrogates										
Decachlorobiphenyl	50.0	37.3	74.6	50.0	35.8	71.6	4.02	30-150	<40	
Tetrachloro-m-xylene	50.0	47.6	95.2	50.0	43.8	87.6	7.98	30-150	<40	

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QUALITY CONTROL RESULTS

Ordered By

Clark Seif Clark, Inc
110 Pine Ave
Suite 925
Long Beach, CA 90802-

Telephone: (562)435-8080
Attn: Aaron Garrett
Page: **51**

AETL Job Number	Submitted	Client
85199	11/08/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 111416EB3; Dup or Spiked Sample: 85257.43; LCS: Clean Sand; QC Prepared: 11/14/2016; QC Analyzed: 11/16/2016; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	16.5	82.5	20.0	15.0	75.0	9.52	40-150	<40
4,4'-DDT (DDT)	57.4	50.0	76.5 #	38.2	50.0	68.2 #	21.6	55.5	40-150	<40
Dieldrin	11.4	50.0	55.4	88.0	50.0	49.2	75.6	15.2	40-150	<40
Endrin	4.53	50.0	79.5	150	50.0	72.5	136	9.79	40-150	<40
Heptachlor	0.00	20.0	18.9	94.5	20.0	16.5	82.5	13.6	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	17.7	88.5	20.0	16.7	83.5	5.81	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	67.7	135	50.0	55.8	112	17.0	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	49.1	98.2	50.0	50.2	100	1.83	30-150	<40

QC Batch No: 111416EB3; Dup or Spiked Sample: 85257.43; LCS: Clean Sand; QC Prepared: 11/14/2016; QC Analyzed: 11/16/2016; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	13.0	65.0	20.0	12.4	62.0	4.72	50-150	<40	
4,4'-DDT (DDT)	50.0	26.8	53.6	50.0	25.1	50.2	6.55	50-150	<40	
Dieldrin	50.0	33.7	67.4	50.0	30.4	60.8	10.3	50-150	<40	
Endrin	50.0	66.2	132	50.0	52.3	105	22.8	50-150	<40	
Heptachlor	20.0	13.6	68.0	20.0	12.7	63.5	6.84	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	13.7	68.5	20.0	12.9	64.5	6.02	50-150	<40	
Surrogates										
Decachlorobiphenyl	50.0	42.7	85.4	50.0	34.8	69.6	18.5	30-150	<40	
Tetrachloro-m-xylene	50.0	46.1	92.2	50.0	46.2	92.4	<1	30-150	<40	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

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110 Pine Ave Suite 925
Long Beach, CA 90802

Telephone: (818)727-2553
Attention: Aaron Garrett

Number of Pages 45
Date Received 11/22/2016
Date Reported 12/07/2016

Job Number	Order Date	Client
85425	11/22/2016	CSC-LB

Project ID: 611089

Enclosed please find results of analyses of 30 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

CHEMTEK ~~Environmental Laboratories Inc.~~ CSC

13554 Larwin Circle, Santa Fe Springs, CA 90670

Tel. (562) 926-9848 ~~FAX (562) 926-8324~~ Email: ~~ChemtekLabs@hotmail.com~~

CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

invoice CSC

Job No.: 85425

Page: 1 of 2

CUSTOMER INFORMATION

COMPANY NAME: CSC

PROJECT CONTACT: Aaron Gollet Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME 611089 P.O. No.

SITE ADDRESS:

SAMPLED BY: ☐ EDF

Turn Around Time NORM ☑ 24 hr ☐ 48 hr ☐ Other ☐ ____

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time REMARKS	Preserved	NO. OF CONT
1	SB030-0.5	11/20/16		SO	611089-12	85425.01	1
2	SB030-0.5 Dup	11/20		SO	611089-12 Dup	85425.02	
3	SB032-0.5				611089-18	85425.03	
4	SB033-0.5				611089-21	85425.04	
5	SB034-0.5				611089-24	85425.05	
6	SB035-0.5				611089-27	85425.06	
7	SB036-0.5				611089-30	85425.07	
8	SB031-0.5				611089-15	85425.08	
9	SB037-0.5				-33	85425.09	
10	SB041-0.5				-36	85425.10	
11	SB042-0.5	11/19			-39	85425.11	
12	SB043-0.5				-41	85425.12	
13	SB043-0.5 Dup				-41 Dup	85425.13	
14	SB046-0.5				-45	85425.14	
15	SB047-0.5				-48	85425.15	
16	SB048-0.5				-49	85425.16	

ANALYSIS REQUIRED

8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCP 8081	PCB 8082
										X
										X

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:		Mark	CSC	11/22/16	1330
RECEIVED BY:		Sergis P	AETL	11/22/16	1330
RELINQUISHED BY:		Sergis-P	AETL	11/22/16	1645
RECEIVED FOR LABORATORY BY:		Jean Lauda	AETL	11/22/16	1645

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

***Type:** **SO**-Soil **GW**-Ground Water **WW**-Waste Water **AQ**-Aqueous **A**-Air **OT**-Other

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CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CSC

CHAIN OF CUSTODY RECORD

Invoice CSC

Job No.: 85425

Page: 2 of 2

CUSTOMER INFORMATION

COMPANY NAME: CSS
PROJECT CONTACT: Aaron Gurule Email:
ADDRESS:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME 611089 P.O. No.
SITE ADDRESS:
SAMPLED BY: ☐ EDF
Turn Around Time NORM ☑ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT
1	[illegible]	11/19		SO				
2	SD051-0.5				611089-52		85425.17	
3	SD052-0.5				-55		85425.18	
4	SD053-0.5	11/20			-58		85425.19	
5	SD053-0.5 Dup				-58	Dup	85425.20	
6	SD054-0.5				-61		85425.21	
7	SD058-0.5				-64		85425.22	
8	SD059-0.5				67		85425.23	
9	SD060-0.5				70		85425.24	
10	SD061-0.5				73		85425.25	
11	SD063-0.5	11/19			76		85425.26	
12	SD070-0.5				79		85425.27	
13	SB078-0.5				82		85425.28	
14	SB001-10				-1		85425.29	
15	SD001-15				-2		85425.30	
16								

ANALYSIS REQUIRED

8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCP 8081	[illegible]		NO 8015 2	
												X	
												X	

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Mark	CSC	11/22/16	1330
RECEIVED BY:	Sangsp	AETL	11/22/16	1330
RELINQUISHED BY:	Sangsp	AETL	11/22/16	1645
RECEIVED FOR LABORATORY BY:	Jean Sande	AETL	11/22/16	1645

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

*Type: SO-Soil, GW-Ground Water, WW-Waste Water, AQ-Aqueous, A-Air, OT-Other

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Ordered By

Clark Seif Clark, Inc.
110 Pine Ave Suite 925
Long Beach, CA 90802

Project ID: 611089
Date Received 11/22/2016
Date Reported 12/07/2016

Telephone: (818)727-2553
Attention: Aaron Garrett

Job Number	Order Date	Client
85425	11/22/2016	CSC-LB

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 30 samples with the following specification on 11/22/2016.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
85425.01	SB030-0.5	11/20/2016	Soil	1
85425.02	SB030-0.5Dup	11/20/2016	Soil	1
85425.03	SB032-0.5	11/20/2016	Soil	1
85425.04	SB033-0.5	11/20/2016	Soil	1
85425.05	SB034-0.5	11/20/2016	Soil	1
85425.06	SB035-0.5	11/20/2016	Soil	1
85425.07	SB036-0.5	11/20/2016	Soil	1
85425.09	SB037-0.5	11/20/2016	Soil	1
85425.10	SB041-0.5	11/20/2016	Soil	1
85425.12	SB043-0.5	11/19/2016	Soil	1
85425.13	SB043-0.5Dup	11/19/2016	Soil	1
85425.14	SB046-0.5	11/19/2016	Soil	1
85425.15	SB047-0.5	11/19/2016	Soil	1
85425.16	SB048-0.5	11/19/2016	Soil	1
85425.17	SB051-0.5	11/19/2016	Soil	1
85425.18	SB052-0.5	11/19/2016	Soil	1
85425.19	SB053-0.5	11/20/2016	Soil	1
85425.20	SB053-0.5Dup	11/20/2016	Soil	1
85425.21	SB054-0.5	11/20/2016	Soil	1
85425.22	SB058-0.5	11/20/2016	Soil	1
85425.23	SB059-0.5	11/20/2016	Soil	1
85425.24	SB060-0.5	11/20/2016	Soil	1
85425.25	SB061-0.5	11/20/2016	Soil	1
85425.26	SB063-0.5	11/19/2016	Soil	1

Continued

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Telephone: (818)727-2553
Attention: Aaron Garrett

Project ID: 611089
Date Received 11/22/2016
Date Reported 12/07/2016

Job Number	Order Date	Client
85425	11/22/2016	CSC-LB

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

85425.27	SB070-0.5	11/19/2016	Soil	1
85425.28	SB078-0.5	11/19/2016	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8081A)	11/29/2016	2	Normal	ug/Kg

85425.08	SB031-0.5	11/20/2016	Soil	1
85425.11	SB042-0.5	11/19/2016	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8081A)	11/29/2016	2	Normal	ug/Kg
(8082)	11/29/2016	2	Normal	ug/Kg

85425.29	SB001-10	11/19/2016	Soil	1
85425.30	SB001-15	11/19/2016	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082)	11/29/2016	2	Normal	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Clark Seif Clark, Inc.
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Telephone: (818)727-2553
Attn: Aaron Garrett
Page: **2**
Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112316MB2

Our Lab I.D.			Method Blank	**85425.01**			
Client Sample I.D.				SB030-0.5			
Date Sampled				11/20/2016			
Date Prepared			11/23/2016	11/23/2016			
Preparation Method			3550B	3550B			
Date Analyzed			11/28/2016	11/28/2016			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	1.0	2.0	ND	ND			
Chlordane (Total)	1.0	2.0	ND	3.66			
Chlordane (alpha)	1.0	2.0	ND	2.07			
4,4'-DDD (DDD)	1.0	2.0	ND	ND			
4,4'-DDE (DDE)	1.0	2.0	ND	9.91			
4,4'-DDT (DDT)	1.0	2.0	ND	5.97			
Dieldrin	1.0	2.0	ND	4.13			
Endosulfan 1	1.0	2.0	ND	ND			
Endosulfan 11	1.0	2.0	ND	ND			
Endosulfan sulfate	1.0	2.0	ND	ND			
Endrin	1.0	2.0	ND	ND			
Endrin aldehyde	1.0	2.0	ND	ND			
Endrin ketone	1.0	2.0	ND	ND			
Chlordane (gamma)	1.0	2.0	ND	1.59J			
Heptachlor	1.0	2.0	ND	ND			
Heptachlor epoxide	1.0	2.0	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND			
Methoxychlor	5.0	10.0	ND	ND			
Toxaphene	85.0	170.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	85425.01			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		84.0	64.6			
Tetrachloro-m-xylene	30-150		83.2	76.8			

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ANALYTICAL RESULTS

Ordered By

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Telephone: (818)727-2553
Attn: Aaron Garrett
Page: **4**
Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112316MB2

Our Lab I.D.			**85425.02**				
Client Sample I.D.			SB030-0.5Dup				
Date Sampled			11/20/2016				
Date Prepared			11/23/2016				
Preparation Method			3550B				
Date Analyzed			11/28/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	10.6				
Chlordane (alpha)	5	10	6.21J				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	6.72J				
4,4'-DDT (DDT)	5	10	ND				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	ND				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.02				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		85.6				
Tetrachloro-m-xylene	30-150		86.2				

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ANALYTICAL RESULTS

Ordered By

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Attn: Aaron Garrett
Page: 6
Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112316MB2

Our Lab I.D.			85425.03	85425.04			
Client Sample I.D.			SB032-0.5	SB033-0.5			
Date Sampled			11/20/2016	11/20/2016			
Date Prepared			11/23/2016	11/23/2016			
Preparation Method			3550B	3550B			
Date Analyzed			11/28/2016	11/28/2016			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	1.0	2.0	ND	ND			
Chlordane (Total)	1.0	2.0	ND	11.4			
Chlordane (alpha)	1.0	2.0	ND	6.76			
4,4'-DDD (DDD)	1.0	2.0	ND	ND			
4,4'-DDE (DDE)	1.0	2.0	1.01J	4.42			
4,4'-DDT (DDT)	1.0	2.0	ND	2.63			
Dieldrin	1.0	2.0	ND	ND			
Endosulfan 1	1.0	2.0	ND	ND			
Endosulfan 11	1.0	2.0	ND	ND			
Endosulfan sulfate	1.0	2.0	ND	ND			
Endrin	1.0	2.0	ND	ND			
Endrin aldehyde	1.0	2.0	ND	ND			
Endrin ketone	1.0	2.0	ND	ND			
Chlordane (gamma)	1.0	2.0	ND	4.62			
Heptachlor	1.0	2.0	ND	ND			
Heptachlor epoxide	1.0	2.0	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND			
Methoxychlor	5.0	10.0	ND	ND			
Toxaphene	85.0	170.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.03	85425.04			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		71.0	77.4			
Tetrachloro-m-xylene	30-150		86.4	87.4			

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112316MB2

Our Lab I.D.			**85425.05**				
Client Sample I.D.			SB034-0.5				
Date Sampled			11/20/2016				
Date Prepared			11/23/2016				
Preparation Method			3550B				
Date Analyzed			11/28/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	2.0	4.0	ND				
Chlordane (Total)	2.0	4.0	3.59J				
Chlordane (alpha)	2.0	4.0	ND				
4,4'-DDD (DDD)	2.0	4.0	ND				
4,4'-DDE (DDE)	2.0	4.0	3.44J				
4,4'-DDT (DDT)	2.0	4.0	3.18J				
Dieldrin	2.0	4.0	ND				
Endosulfan 1	2.0	4.0	ND				
Endosulfan 11	2.0	4.0	ND				
Endosulfan sulfate	2.0	4.0	ND				
Endrin	2.0	4.0	ND				
Endrin aldehyde	2.0	4.0	ND				
Endrin ketone	2.0	4.0	ND				
Chlordane (gamma)	2.0	4.0	ND				
Heptachlor	2.0	4.0	ND				
Heptachlor epoxide	2.0	4.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND				
Methoxychlor	10	20	ND				
Toxaphene	170	340	ND				

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.05				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		63.6				
Tetrachloro-m-xylene	30-150		83.4				

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AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112316MB2

Our Lab I.D.			85425.06	85425.07			
Client Sample I.D.			SB035-0.5	SB036-0.5			
Date Sampled			11/20/2016	11/20/2016			
Date Prepared			11/23/2016	11/23/2016			
Preparation Method			3550B	3550B			
Date Analyzed			11/28/2016	11/28/2016			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	10	20	ND	ND			
Chlordane (Total)	10	20	ND	ND			
Chlordane (alpha)	10	20	ND	ND			
4,4'-DDD (DDD)	10	20	ND	ND			
4,4'-DDE (DDE)	10	20	ND	ND			
4,4'-DDT (DDT)	10	20	ND	ND			
Dieldrin	10	20	ND	ND			
Endosulfan 1	10	20	ND	ND			
Endosulfan 11	10	20	ND	ND			
Endosulfan sulfate	10	20	ND	ND			
Endrin	10	20	ND	ND			
Endrin aldehyde	10	20	ND	ND			
Endrin ketone	10	20	ND	ND			
Chlordane (gamma)	10	20	ND	ND			
Heptachlor	10	20	ND	ND			
Heptachlor epoxide	10	20	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	10	20	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	10	20	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	10	20	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	10	20	ND	ND			
Methoxychlor	50	100	ND	ND			
Toxaphene	850	1700	ND	ND			

Comment(s):
85425.06: Analyzed under dilution due to matrix interference 85425.07: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.06	85425.07			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		83.0	76.8			
Tetrachloro-m-xylene	30-150		98.0	91.0			

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112316MB2

Our Lab I.D.			**85425.08**				
Client Sample I.D.			SB031-0.5				
Date Sampled			11/20/2016				
Date Prepared			11/23/2016				
Preparation Method			3550B				
Date Analyzed			11/28/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	6.98				
Chlordane (alpha)	1.0	2.0	4.03				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	8.34				
4,4'-DDT (DDT)	1.0	2.0	14.1				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	2.95				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	85.0	170.0	ND				

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.08				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		67.6				
Tetrachloro-m-xylene	30-150		90.4				

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112316MB2

Our Lab I.D.			**85425.09**				
Client Sample I.D.			SB037-0.5				
Date Sampled			11/20/2016				
Date Prepared			11/23/2016				
Preparation Method			3550B				
Date Analyzed			11/28/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	10	20	ND				
Chlordane (Total)	10	20	ND				
Chlordane (alpha)	10	20	ND				
4,4'-DDD (DDD)	10	20	ND				
4,4'-DDE (DDE)	10	20	ND				
4,4'-DDT (DDT)	10	20	ND				
Dieldrin	10	20	ND				
Endosulfan 1	10	20	ND				
Endosulfan 11	10	20	ND				
Endosulfan sulfate	10	20	ND				
Endrin	10	20	ND				
Endrin aldehyde	10	20	ND				
Endrin ketone	10	20	ND				
Chlordane (gamma)	10	20	ND				
Heptachlor	10	20	ND				
Heptachlor epoxide	10	20	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	10	20	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	10	20	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	10	20	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	10	20	ND				
Methoxychlor	50	100	ND				
Toxaphene	850	1700	ND				

Comment(s):
85425.09: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.09				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		121				
Tetrachloro-m-xylene	30-150		103				

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112316MB2

Our Lab I.D.			**85425.10**				
Client Sample I.D.			SB041-0.5				
Date Sampled			11/20/2016				
Date Prepared			11/23/2016				
Preparation Method			3550B				
Date Analyzed			11/28/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	2.0	4.0	ND				
Chlordane (Total)	2.0	4.0	18.1				
Chlordane (alpha)	2.0	4.0	10.1				
4,4'-DDD (DDD)	2.0	4.0	3.36J				
4,4'-DDE (DDE)	2.0	4.0	30.0				
4,4'-DDT (DDT)	2.0	4.0	52.4				
Dieldrin	2.0	4.0	ND				
Endosulfan 1	2.0	4.0	ND				
Endosulfan 11	2.0	4.0	ND				
Endosulfan sulfate	2.0	4.0	ND				
Endrin	2.0	4.0	ND				
Endrin aldehyde	2.0	4.0	ND				
Endrin ketone	2.0	4.0	ND				
Chlordane (gamma)	2.0	4.0	8.03				
Heptachlor	2.0	4.0	ND				
Heptachlor epoxide	2.0	4.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND				
Methoxychlor	10	20	ND				
Toxaphene	170	340	ND				

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.10				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		65.4				
Tetrachloro-m-xylene	30-150		89.2				

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112316MB2

Our Lab I.D.			85425.11	85425.12	85425.13	85425.14	85425.15
Client Sample I.D.			SB042-0.5	SB043-0.5	SB043-0.5Dup	SB046-0.5	SB047-0.5
Date Sampled			11/19/2016	11/19/2016	11/19/2016	11/19/2016	11/19/2016
Date Prepared			11/23/2016	11/23/2016	11/23/2016	11/23/2016	11/23/2016
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			11/28/2016	11/28/2016	11/28/2016	11/28/2016	11/28/2016
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	ND	6.85
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND	ND
Dieldrin	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.11	85425.12	85425.13	85425.14	85425.15
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		73.2	70.6	73.6	73.2	72.6
Tetrachloro-m-xylene	30-150		76.0	73.6	78.2	76.6	77.8

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112316MB2

Our Lab I.D.			85425.16	85425.17	85425.18		
Client Sample I.D.			SB048-0.5	SB051-0.5	SB052-0.5		
Date Sampled			11/19/2016	11/19/2016	11/19/2016		
Date Prepared			11/23/2016	11/23/2016	11/23/2016		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			11/28/2016	11/28/2016	11/28/2016		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Aldrin	1.0	2.0	ND	ND	ND		
Chlordane (Total)	1.0	2.0	60.1	ND	ND		
Chlordane (alpha)	1.0	2.0	29.8	ND	ND		
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND		
4,4'-DDE (DDE)	1.0	2.0	ND	13.2	4.69		
4,4'-DDT (DDT)	1.0	2.0	1.84J	10.2	ND		
Dieldrin	1.0	2.0	ND	ND	ND		
Endosulfan 1	1.0	2.0	ND	ND	ND		
Endosulfan 11	1.0	2.0	ND	ND	ND		
Endosulfan sulfate	1.0	2.0	ND	ND	ND		
Endrin	1.0	2.0	ND	ND	ND		
Endrin aldehyde	1.0	2.0	ND	ND	ND		
Endrin ketone	1.0	2.0	ND	ND	ND		
Chlordane (gamma)	1.0	2.0	30.3	ND	ND		
Heptachlor	1.0	2.0	ND	ND	ND		
Heptachlor epoxide	1.0	2.0	ND	ND	ND		
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND		
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND		
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND		
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND		
Methoxychlor	5.0	10.0	ND	ND	ND		
Toxaphene	85.0	170.0	ND	ND	ND		

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.16	85425.17	85425.18		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		76.8	79.2	75.4		
Tetrachloro-m-xylene	30-150		81.2	84.2	78.2		

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ANALYTICAL RESULTS

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112816MB1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			11/28/2016				
Preparation Method			3550B				
Date Analyzed			11/29/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	ND				
Chlordane (alpha)	1.0	2.0	ND				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	ND				
4,4'-DDT (DDT)	1.0	2.0	ND				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	ND				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	85.0	170.0	ND				

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		83.8				
Tetrachloro-m-xylene	30-150		83.0				

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112816MB1

Our Lab I.D.			**85425.19**				
Client Sample I.D.			SB053-0.5				
Date Sampled			11/20/2016				
Date Prepared			11/28/2016				
Preparation Method			3550B				
Date Analyzed			11/29/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	ND				
Chlordane (alpha)	5	10	ND				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	ND				
4,4'-DDT (DDT)	5	10	ND				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	ND				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

Comment(s):
85425.19: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.19				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		80.4				
Tetrachloro-m-xylene	30-150		82.4				

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112816MB1

Our Lab I.D.			**85425.20**				
Client Sample I.D.			SB053-0.5Dup				
Date Sampled			11/20/2016				
Date Prepared			11/28/2016				
Preparation Method			3550B				
Date Analyzed			11/29/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	ND				
Chlordane (alpha)	1.0	2.0	ND				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	ND				
4,4'-DDT (DDT)	1.0	2.0	ND				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	ND				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	85.0	170.0	ND				

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.20				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		64.6				
Tetrachloro-m-xylene	30-150		89.0				

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112816MB1

Our Lab I.D.			**85425.21**				
Client Sample I.D.			SB054-0.5				
Date Sampled			11/20/2016				
Date Prepared			11/28/2016				
Preparation Method			3550B				
Date Analyzed			11/29/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	2.0	4.0	ND				
Chlordane (Total)	2.0	4.0	ND				
Chlordane (alpha)	2.0	4.0	ND				
4,4'-DDD (DDD)	2.0	4.0	ND				
4,4'-DDE (DDE)	2.0	4.0	ND				
4,4'-DDT (DDT)	2.0	4.0	ND				
Dieldrin	2.0	4.0	ND				
Endosulfan 1	2.0	4.0	ND				
Endosulfan 11	2.0	4.0	ND				
Endosulfan sulfate	2.0	4.0	ND				
Endrin	2.0	4.0	ND				
Endrin aldehyde	2.0	4.0	ND				
Endrin ketone	2.0	4.0	ND				
Chlordane (gamma)	2.0	4.0	ND				
Heptachlor	2.0	4.0	ND				
Heptachlor epoxide	2.0	4.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND				
Methoxychlor	10	20	ND				
Toxaphene	170	340	ND				

Comment(s):
85425.21: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.21				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		83.2				
Tetrachloro-m-xylene	30-150		88.0				

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112816MB1

Our Lab I.D.			85425.22	85425.23			
Client Sample I.D.			SB058-0.5	SB059-0.5			
Date Sampled			11/20/2016	11/20/2016			
Date Prepared			11/28/2016	11/28/2016			
Preparation Method			3550B	3550B			
Date Analyzed			11/29/2016	11/29/2016			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	1.0	2.0	ND	ND			
Chlordane (Total)	1.0	2.0	ND	ND			
Chlordane (alpha)	1.0	2.0	ND	ND			
4,4'-DDD (DDD)	1.0	2.0	ND	ND			
4,4'-DDE (DDE)	1.0	2.0	ND	ND			
4,4'-DDT (DDT)	1.0	2.0	ND	ND			
Dieldrin	1.0	2.0	ND	ND			
Endosulfan 1	1.0	2.0	ND	ND			
Endosulfan 11	1.0	2.0	ND	ND			
Endosulfan sulfate	1.0	2.0	ND	ND			
Endrin	1.0	2.0	ND	ND			
Endrin aldehyde	1.0	2.0	ND	ND			
Endrin ketone	1.0	2.0	ND	ND			
Chlordane (gamma)	1.0	2.0	ND	ND			
Heptachlor	1.0	2.0	ND	ND			
Heptachlor epoxide	1.0	2.0	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND			
Methoxychlor	5.0	10.0	ND	ND			
Toxaphene	85.0	170.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.22	85425.23			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		61.8	58.0			
Tetrachloro-m-xylene	30-150		80.0	75.2			

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112816MB1

Our Lab I.D.			**85425.24**				
Client Sample I.D.			SB060-0.5				
Date Sampled			11/20/2016				
Date Prepared			11/28/2016				
Preparation Method			3550B				
Date Analyzed			11/29/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	5	10	ND				
Chlordane (Total)	5	10	ND				
Chlordane (alpha)	5	10	ND				
4,4'-DDD (DDD)	5	10	ND				
4,4'-DDE (DDE)	5	10	ND				
4,4'-DDT (DDT)	5	10	ND				
Dieldrin	5	10	ND				
Endosulfan 1	5	10	ND				
Endosulfan 11	5	10	ND				
Endosulfan sulfate	5	10	ND				
Endrin	5	10	ND				
Endrin aldehyde	5	10	ND				
Endrin ketone	5	10	ND				
Chlordane (gamma)	5	10	ND				
Heptachlor	5	10	ND				
Heptachlor epoxide	5	10	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND				
Methoxychlor	25	50	ND				
Toxaphene	425	850	ND				

Comment(s):
85425.24: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.24				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		72.2				
Tetrachloro-m-xylene	30-150		90.2				

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AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112816MB1

Our Lab I.D.			**85425.25**				
Client Sample I.D.			SB061-0.5				
Date Sampled			11/20/2016				
Date Prepared			11/28/2016				
Preparation Method			3550B				
Date Analyzed			11/29/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	2.0	4.0	ND				
Chlordane (Total)	2.0	4.0	ND				
Chlordane (alpha)	2.0	4.0	ND				
4,4'-DDD (DDD)	2.0	4.0	ND				
4,4'-DDE (DDE)	2.0	4.0	ND				
4,4'-DDT (DDT)	2.0	4.0	2.56J				
Dieldrin	2.0	4.0	ND				
Endosulfan 1	2.0	4.0	ND				
Endosulfan 11	2.0	4.0	ND				
Endosulfan sulfate	2.0	4.0	ND				
Endrin	2.0	4.0	ND				
Endrin aldehyde	2.0	4.0	ND				
Endrin ketone	2.0	4.0	ND				
Chlordane (gamma)	2.0	4.0	ND				
Heptachlor	2.0	4.0	ND				
Heptachlor epoxide	2.0	4.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	2.0	4.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	2.0	4.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	2.0	4.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	2.0	4.0	ND				
Methoxychlor	10	20	ND				
Toxaphene	170	340	ND				

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.25				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		70.8				
Tetrachloro-m-xylene	30-150		95.4				

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ANALYTICAL RESULTS

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112816MB1

Our Lab I.D.			**85425.26**				
Client Sample I.D.			SB063-0.5				
Date Sampled			11/19/2016				
Date Prepared			11/28/2016				
Preparation Method			3550B				
Date Analyzed			11/29/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	ND				
Chlordane (alpha)	1.0	2.0	ND				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	ND				
4,4'-DDT (DDT)	1.0	2.0	ND				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	ND				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	85.0	170.0	ND				

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.26				
Surrogates	%Rec.Limit		% Rec.				
Decachlorobiphenyl	30-150		49.2				
Tetrachloro-m-xylene	30-150		78.0				

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ANALYTICAL RESULTS

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Attn: Aaron Garrett
Page: **38**
Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112816MB1

Our Lab I.D.			85425.27	85425.28			
Client Sample I.D.			SB070-0.5	SB078-0.5			
Date Sampled			11/19/2016	11/19/2016			
Date Prepared			11/28/2016	11/28/2016			
Preparation Method			3550B	3550B			
Date Analyzed			11/29/2016	11/29/2016			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			5	5			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	5	10	ND	ND			
Chlordane (Total)	5	10	ND	ND			
Chlordane (alpha)	5	10	ND	ND			
4,4'-DDD (DDD)	5	10	ND	ND			
4,4'-DDE (DDE)	5	10	ND	ND			
4,4'-DDT (DDT)	5	10	ND	ND			
Dieldrin	5	10	ND	ND			
Endosulfan 1	5	10	ND	ND			
Endosulfan 11	5	10	ND	ND			
Endosulfan sulfate	5	10	ND	ND			
Endrin	5	10	ND	ND			
Endrin aldehyde	5	10	ND	ND			
Endrin ketone	5	10	ND	ND			
Chlordane (gamma)	5	10	ND	ND			
Heptachlor	5	10	ND	ND			
Heptachlor epoxide	5	10	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND	ND			
Methoxychlor	25	50	ND	ND			
Toxaphene	425	850	ND	ND			

Comment(s):
85425.27: Analyzed under dilution due to matrix interference 85425.28: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			85425.27	85425.28			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		64.0	83.8			
Tetrachloro-m-xylene	30-150		90.6	83.0			

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 112916

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			11/29/2016				
Preparation Method			3550B				
Date Analyzed			11/29/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	25.0	50.0	ND				
Aroclor-1221 (PCB-1221)	25.0	50.0	ND				
Aroclor-1232 (PCB-1232)	25.0	50.0	ND				
Aroclor-1242 (PCB-1242)	25.0	50.0	ND				
Aroclor-1248 (PCB-1248)	25.0	50.0	ND				
Aroclor-1254 (PCB-1254)	25.0	50.0	ND				
Aroclor-1260 (PCB-1260)	25.0	50.0	ND				
Aroclor-1262 (PCB-1262)	25.0	50.0	ND				
Aroclor-1268 (PCB-1268)	25.0	50.0	ND				
Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		81.0				
Tetrachloro-m-xylene	30-150		119				

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Page: **41**
Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 112916

Our Lab I.D.			**85425.08**				
Client Sample I.D.			SB031-0.5				
Date Sampled			11/20/2016				
Date Prepared			11/29/2016				
Preparation Method			3550B				
Date Analyzed			11/29/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	50	100	ND				
Aroclor-1221 (PCB-1221)	50	100	ND				
Aroclor-1232 (PCB-1232)	50	100	ND				
Aroclor-1242 (PCB-1242)	50	100	ND				
Aroclor-1248 (PCB-1248)	50	100	ND				
Aroclor-1254 (PCB-1254)	50	100	ND				
Aroclor-1260 (PCB-1260)	50	100	ND				
Aroclor-1262 (PCB-1262)	50	100	ND				
Aroclor-1268 (PCB-1268)	50	100	ND				

Comment(s):
85425.08: Analyzed under dilution due to matrix interference

Our Lab I.D.			**85425.08**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		116				
Tetrachloro-m-xylene	30-150		131				

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Page: **42**
Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 112916

Our Lab I.D.			85425.11	85425.29	85425.30		
Client Sample I.D.			SB042-0.5	SB001-10	SB001-15		
Date Sampled			11/19/2016	11/19/2016	11/19/2016		
Date Prepared			11/29/2016	11/29/2016	11/29/2016		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			11/29/2016	11/29/2016	11/29/2016		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND		
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND		
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND		
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND		
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND		
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND		
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND		
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND		
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND		
Our Lab I.D.			85425.11	85425.29	85425.30		
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**		
Decachlorobiphenyl	30-150		93.6	93.0	103		
Tetrachloro-m-xylene	30-150		118	121	133		

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QUALITY CONTROL RESULTS

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Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112316MB2; Dup or Spiked Sample: 85425.16; LCS: Clean Sand; QC Prepared: 11/23/2016; QC Analyzed: 11/28/2016; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	18.8	94.0	20.0	18.1	90.5	3.8	40-150	<40
4,4'-DDT (DDT)	2.39	50.0	52.4	100	50.0	51.7	98.6	1.4	40-150	<40
Dieldrin	0.00	50.0	45.2	90.4	50.0	43.8	87.6	3.1	40-150	<40
Endrin	0.00	50.0	47.4	94.8	50.0	45.8	91.6	3.4	40-150	<40
Heptachlor	0.00	20.0	21.4	107	20.0	20.4	102	4.8	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	18.6	93.0	20.0	17.9	89.5	3.8	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	38.6	77.2	50.0	38.4	76.8	<1	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	44.7	89.4	50.0	41.5	83.0	7.4	30-150	<40

QC Batch No: 112316MB2; Dup or Spiked Sample: 85425.16; LCS: Clean Sand; QC Prepared: 11/23/2016; QC Analyzed: 11/28/2016; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	15.7	78.5	20.0	14.8	74.0	5.9	50-150	<40	
4,4'-DDT (DDT)	50.0	37.6	75.2	50.0	35.6	71.2	5.5	50-150	<40	
Dieldrin	50.0	38.8	77.6	50.0	37.1	74.2	4.5	50-150	<40	
Endrin	50.0	38.2	76.4	50.0	36.8	73.6	3.7	50-150	<40	
Heptachlor	20.0	16.2	81.0	20.0	15.0	75.0	7.7	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	15.3	76.5	20.0	12.6	63.0	19.4	50-150	<40	
Surrogates										
Decachlorobiphenyl	50.0	34.8	69.6	50.0	33.7	67.4	3.2	30-150	<40	
Tetrachloro-m-xylene	50.0	32.0	64.0	50.0	26.7	53.4	18.1	30-150	<40	

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QUALITY CONTROL RESULTS

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Page: **44**
Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 112816MB1; Dup or Spiked Sample: 85425.22; LCS: Clean Sand; QC Prepared: 11/28/2016;MS Analyzed: 11/29/2016; LCS Analyzed: 11/28/2016; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	16.2	81.0	20.0	15.6	78.0	3.77	40-150	<40
4,4'-DDT (DDT)	0.00	50.0	51.5	103	50.0	45.9	91.8	11.5	40-150	<40
Dieldrin	0.00	50.0	37.2	74.4	50.0	36.4	72.8	2.17	40-150	<40
Endrin	0.00	50.0	42.1	84.2	50.0	40.4	80.8	4.12	40-150	<40
Heptachlor	0.00	20.0	19.0	95.0	20.0	18.4	92.0	3.21	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	17.0	85.0	20.0	16.4	82.0	3.59	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	28.9	57.8	50.0	27.7	55.4	4.15	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	41.9	83.8	50.0	40.4	80.8	3.58	30-150	<40

QC Batch No: 112816MB1; Dup or Spiked Sample: 85425.22; LCS: Clean Sand; QC Prepared: 11/28/2016;MS Analyzed: 11/29/2016; LCS Analyzed: 11/28/2016; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	14.8	74.0	20.0	12.4	62.0	17.6	50-150	<40	
4,4'-DDT (DDT)	50.0	47.1	94.2	50.0	38.5	77.0	20.1	50-150	<40	
Dieldrin	50.0	36.1	72.2	50.0	33.1	66.2	8.67	50-150	<40	
Endrin	50.0	38.8	77.6	50.0	34.6	69.2	11.4	50-150	<40	
Heptachlor	20.0	16.8	84.0	20.0	13.9	69.5	18.9	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	15.3	76.5	20.0	12.9	64.5	17.0	50-150	<40	
Surrogates										
Decachlorobiphenyl	50.0	27.9	55.8	50.0	23.2	46.4	16.8	30-150	<40	
Tetrachloro-m-xylene	50.0	34.8	69.6	50.0	28.4	56.8	18.4	30-150	<40	

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Page: **45**
Project ID: 611089

AETL Job Number	Submitted	Client
85425	11/22/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 112916; Dup or Spiked Sample: 85425.30; LCS: Clean Sand; QC Prepared: 11/29/2016; QC Analyzed: 11/29/2016; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	413	82.6	500	413	82.6	<1	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	500	452	90.4	500	439	87.8	2.9	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	50.0	54.5	109	50.0	53.0	106	2.8	30-150	<20
Tetrachloro-m-xylene	0.00	50.0	64.0	128	50.0	62.5	125	2.4	30-150	<20

QC Batch No: 112916; Dup or Spiked Sample: 85425.30; LCS: Clean Sand; QC Prepared: 11/29/2016; QC Analyzed: 11/29/2016; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	473	94.6	500	436	87.2	8.1	50-150	<20	
Aroclor-1260 (PCB-1260)	500	475	95.0	500	436	87.2	8.6	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	49.5	99.0	50.0	48.5	97.0	2.0	30-150	<20	
Tetrachloro-m-xylene	50.0	72.5	145	50.0	70.0	140	3.5	30-150	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

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Telephone: (562)435-8080
Attention: Aaron Garrett

Number of Pages	**11**
Date Received	**11/08/2016**
Date Reported	**12/12/2016**

Job Number	Order Date	Client
85541	12/01/2016	CSC-LB

Enclosed please find results of analyses of 6 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

CHEMTEK Environmental Laboratories Inc.
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Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CSC

CHAIN OF CUSTODY RECORD

email data to Chemtek invoice to CSC

85541

Job No.: ~~85198~~

Page: 1 of 4

CUSTOMER INFORMATION

COMPANY NAME: CSC

PROJECT CONTACT: A Garrett Email:

ADDRESS: 110 p.m. Ave LD

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.

SITE ADDRESS:

SAMPLED BY: EDF Turn Around Time NORM ☑ 24 hr 48 hr Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	EPA 8081	EPA 8082			*Added 11/30 (6)
1	SB021-0.5	11-5-16		SO	85198.01																	
2	SB022-0.5				~~85198.02~~														*	85541.01		
3	SB023-0.5				85198.03																	
4	SB024-0.5				85198.04																	
5	SB025-0.5				85198.05																	
6	SB026-0.5	11-6-16			85198.06																	
7	SB027-0.5				85198.07																	
8	SB028-0.5				85198.08																	
9	SB039-0.5				85198.09																	
10	40-0.5				85198.10																	
11	49-0.5				~~85198.11~~														*	85541.02		
12	50-0.5				85198.12																	
13	55-0.5				85198.13																	
14	56-0.5				~~85198.14~~														*	85541.03		
15	57-0.5				85198.15																	
16	62-0.5				85198.16																	

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	[signature]	Aaron Garrett	CSS	11/8/16	230p
RECEIVED BY:	[signature]	Sargis P	AETL	11/8/16	1430
RELINQUISHED BY:	[signature]	Sargis P	AETL	11-8-16	1930
RECEIVED FOR LABORATORY BY:	[signature]	Ivan Claude	AETL	11/8/16	1930

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CSC

CHAIN OF CUSTODY RECORD

85541
Job No.: ~~85198~~

Page: 2 of 4

CUSTOMER INFORMATION

COMPANY NAME: CSC
PROJECT CONTACT: Email:
ADDRESS:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.
SITE ADDRESS:
SAMPLED BY: ☐ EDF
Turn Around Time: NORM ☑ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT
1	SD064-0.5	11/6/16		SO		85198.17		
2	65-0.5					85198.18		
3	66-0.5					85198.19		
4	67-0.5					85198.20		
5	68-0.5					85198.21		
6	69-0.5					85198.22		
7	71-0.5					85198.23		
8	72-0.5					85198.24		
9	73-0.5					85198.25		
10	74-0.5					~~85198.26~~		
11	75-0.5					85198.27		
12	76-0.5					85198.28		
13	77-0.5					85198.29		
14	78-0.5					85198.30		
15	80-0.5					85198.31		
16	81-0.5					~~85198.32~~		

ANALYSIS REQUIRED

8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	EPA 8081A	EPA 8082			
										* 85541.04			
										* 85541.05			

	SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:			CSC	11/6/16	2345
RECEIVED BY:	Sayisp	~~AETC~~ Sayisp	AETC	11/8/16	1430
RELINQUISHED BY:		Sayisp	AETC	11-8-16	930
RECEIVED FOR LABORATORY BY:		Jean Saude	AETC	11/08/16	1930

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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CSC

CHAIN OF CUSTODY RECORD

85541

Job No.: 85199

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CUSTOMER INFORMATION

COMPANY NAME: CSC

PROJECT CONTACT: Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME P.O. No.

SITE ADDRESS:

SAMPLED BY: EDF

Turn Around Time: NORM 24 hr 48 hr Other

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE*	pH/Time REMARKS Preserved	NO. OF CONT
1	SB82-0.5	11/0		SO	85199.01	
2	83-0.5				85199.02	
3	84-0.5				85199.03	
4	85-0.5				85199.04	
5	86-0.5				85199.05	
6	87-0.5				85199.06	
7	88-0.5				85199.07	
8	89-0.5				85199.08	
9	90-0.5				85199.09	
10	91-0.5				85199.10	
11	92-0.5				~~85199.11~~	
12	93-0.5				85199.12	
13	94-0.5				85199.13	
14	95-0.5				85199.14	
15	96-0.5				85199.15	
16	97.03				85199.16	

ANALYSIS REQUIRED

8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	8081 Pesticides	EPA 8082			

* 85541.06

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Aaron Cerrett	CSI	11/8/16	230
RECEIVED BY:	Sangisp	AETL	11/8/16	1430
RELINQUISHED BY:	Sangisp	AETL	11-8-16	1930
RECEIVED FOR LABORATORY BY:	Jean Jaude	AETL	11/08/16	1930

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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Ordered By

Clark Seif Clark, Inc
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Long Beach, CA 90802-

Telephone: (562)435-8080
Attention: Aaron Garrett

Project ID: None
Date Received 11/08/2016
Date Reported 12/12/2016

Job Number	Order Date	Client
85541	12/01/2016	CSC-LB

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 6 samples with the following specification on 12/01/2016.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
85541.01	SB022-0.5	11/05/2016	Soil	1
85541.02	SB049-0.5	11/06/2016	Soil	1
85541.03	SB056-0.5	11/06/2016	Soil	1
85541.04	SB074-0.5	11/06/2016	Soil	1
85541.05	SB081-0.5	11/06/2016	Soil	1
85541.06	SB092-0.5	11/06/2016	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082)	12/07/2016	2	Normal	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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AETL Job Number	Submitted	Client
85541	11/08/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 111116.02

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			12/06/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	25.0	50.0	ND				
Aroclor-1221 (PCB-1221)	25.0	50.0	ND				
Aroclor-1232 (PCB-1232)	25.0	50.0	ND				
Aroclor-1242 (PCB-1242)	25.0	50.0	ND				
Aroclor-1248 (PCB-1248)	25.0	50.0	ND				
Aroclor-1254 (PCB-1254)	25.0	50.0	ND				
Aroclor-1260 (PCB-1260)	25.0	50.0	ND				
Aroclor-1262 (PCB-1262)	25.0	50.0	ND				
Aroclor-1268 (PCB-1268)	25.0	50.0	ND				
Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		70.0				
Tetrachloro-m-xylene	30-150		98.0				

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AETL Job Number	Submitted	Client
85541	11/08/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 111116.02

Our Lab I.D.			**85541.01**				
Client Sample I.D.			SB022-0.5				
Date Sampled			11/05/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			12/06/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	50	100	ND				
Aroclor-1221 (PCB-1221)	50	100	ND				
Aroclor-1232 (PCB-1232)	50	100	ND				
Aroclor-1242 (PCB-1242)	50	100	ND				
Aroclor-1248 (PCB-1248)	50	100	ND				
Aroclor-1254 (PCB-1254)	50	100	ND				
Aroclor-1260 (PCB-1260)	50	100	ND				
Aroclor-1262 (PCB-1262)	50	100	ND				
Aroclor-1268 (PCB-1268)	50	100	ND				

Comment(s):
85541.01: Analyzed under dilution due to matrix interference

Our Lab I.D.			**85541.01**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		68.0				
Tetrachloro-m-xylene	30-150		88.0				

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AETL Job Number	Submitted	Client
85541	11/08/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 111116.02

Our Lab I.D.			**85541.02**				
Client Sample I.D.			SB049-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			12/06/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	25.0	50.0	ND				
Aroclor-1221 (PCB-1221)	25.0	50.0	ND				
Aroclor-1232 (PCB-1232)	25.0	50.0	ND				
Aroclor-1242 (PCB-1242)	25.0	50.0	ND				
Aroclor-1248 (PCB-1248)	25.0	50.0	ND				
Aroclor-1254 (PCB-1254)	25.0	50.0	ND				
Aroclor-1260 (PCB-1260)	25.0	50.0	ND				
Aroclor-1262 (PCB-1262)	25.0	50.0	ND				
Aroclor-1268 (PCB-1268)	25.0	50.0	ND				
Our Lab I.D.			**85541.02**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		62.0				
Tetrachloro-m-xylene	30-150		75.4				

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AETL Job Number	Submitted	Client
85541	11/08/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 111116.02

Our Lab I.D.			85541.03				
Client Sample I.D.			SB056-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			12/06/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	125	250	ND				
Aroclor-1221 (PCB-1221)	125	250	ND				
Aroclor-1232 (PCB-1232)	125	250	ND				
Aroclor-1242 (PCB-1242)	125	250	ND				
Aroclor-1248 (PCB-1248)	125	250	ND				
Aroclor-1254 (PCB-1254)	125	250	ND				
Aroclor-1260 (PCB-1260)	125	250	ND				
Aroclor-1262 (PCB-1262)	125	250	ND				
Aroclor-1268 (PCB-1268)	125	250	ND				

Comment(s):
85541.03: Analyzed under dilution due to matrix interference

Our Lab I.D.			85541.03				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		54.6				
Tetrachloro-m-xylene	30-150		39.0				

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AETL Job Number	Submitted	Client
85541	11/08/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 111116.02

Our Lab I.D.			**85541.04**				
Client Sample I.D.			SB074-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			12/06/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	25.0	50.0	ND				
Aroclor-1221 (PCB-1221)	25.0	50.0	ND				
Aroclor-1232 (PCB-1232)	25.0	50.0	ND				
Aroclor-1242 (PCB-1242)	25.0	50.0	ND				
Aroclor-1248 (PCB-1248)	25.0	50.0	ND				
Aroclor-1254 (PCB-1254)	25.0	50.0	ND				
Aroclor-1260 (PCB-1260)	25.0	50.0	ND				
Aroclor-1262 (PCB-1262)	25.0	50.0	ND				
Aroclor-1268 (PCB-1268)	25.0	50.0	ND				
Our Lab I.D.			**85541.04**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		64.0				
Tetrachloro-m-xylene	30-150		96.3				

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AETL Job Number	Submitted	Client
85541	11/08/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 111116.02

Our Lab I.D.			**85541.05**				
Client Sample I.D.			SB081-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/11/2016				
Preparation Method			3550B				
Date Analyzed			12/06/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	125	250	ND				
Aroclor-1221 (PCB-1221)	125	250	ND				
Aroclor-1232 (PCB-1232)	125	250	ND				
Aroclor-1242 (PCB-1242)	125	250	ND				
Aroclor-1248 (PCB-1248)	125	250	ND				
Aroclor-1254 (PCB-1254)	125	250	ND				
Aroclor-1260 (PCB-1260)	125	250	ND				
Aroclor-1262 (PCB-1262)	125	250	ND				
Aroclor-1268 (PCB-1268)	125	250	ND				

Comment(s):
85541.05: Analyzed under dilution due to matrix interference

Our Lab I.D.			**85541.05**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		89.8				
Tetrachloro-m-xylene	30-150		90.6				

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ANALYTICAL RESULTS

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AETL Job Number	Submitted	Client
85541	11/08/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 111416.02

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	25.0	50.0	ND				
Aroclor-1221 (PCB-1221)	25.0	50.0	ND				
Aroclor-1232 (PCB-1232)	25.0	50.0	ND				
Aroclor-1242 (PCB-1242)	25.0	50.0	ND				
Aroclor-1248 (PCB-1248)	25.0	50.0	ND				
Aroclor-1254 (PCB-1254)	25.0	50.0	ND				
Aroclor-1260 (PCB-1260)	25.0	50.0	ND				
Aroclor-1262 (PCB-1262)	25.0	50.0	ND				
Aroclor-1268 (PCB-1268)	25.0	50.0	ND				
Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		53.8				
Tetrachloro-m-xylene	30-150		87.4				

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ANALYTICAL RESULTS

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Page: 9

AETL Job Number	Submitted	Client
85541	11/08/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 111416.02

Our Lab I.D.			85541.06				
Client Sample I.D.			SB092-0.5				
Date Sampled			11/06/2016				
Date Prepared			11/14/2016				
Preparation Method			3550B				
Date Analyzed			11/16/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	50	100	ND				
Aroclor-1221 (PCB-1221)	50	100	ND				
Aroclor-1232 (PCB-1232)	50	100	ND				
Aroclor-1242 (PCB-1242)	50	100	ND				
Aroclor-1248 (PCB-1248)	50	100	ND				
Aroclor-1254 (PCB-1254)	50	100	ND				
Aroclor-1260 (PCB-1260)	50	100	ND				
Aroclor-1262 (PCB-1262)	50	100	ND				
Aroclor-1268 (PCB-1268)	50	100	ND				

Comment(s):
85541.06: Analyzed under dilution due to matrix interference

Our Lab I.D.			85541.06				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		52.0				
Tetrachloro-m-xylene	30-150		77.7				

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QUALITY CONTROL RESULTS

Ordered By

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AETL Job Number	Submitted	Client
85541	11/08/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 111116.02; LCS: Clean Sand; LCS Prepared: 11/11/2016; LCS Analyzed: 12/06/2016; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	350	70.0	500	353	70.6	<1	50-150	<20	
Aroclor-1260 (PCB-1260)	500	360	72.0	500	352	70.4	2.2	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	32.0	64.0	50.0	34.1	68.2	6.4	30-150	<20	
Tetrachloro-m-xylene	50.0	48.1	96.2	50.0	52.5	105	8.7	30-150	<20	

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QUALITY CONTROL RESULTS

Ordered By

Clark Seif Clark, Inc
110 Pine Ave
Suite 925
Long Beach, CA 90802-

Telephone: (562)435-8080
Attn: Aaron Garrett
Page: **11**

AETL Job Number	Submitted	Client
85541	11/08/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 111416.02; Dup or Spiked Sample: 85282.06; LCS: Clean Sand; QC Prepared: 11/14/2016; QC Analyzed: 11/16/2016; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	398	500	823	85.0	500	794	79.2	7.1	50-150	<20
Aroclor-1260 (PCB-1260)	398	500	808	82.0	500	809	82.2	<1	50-150	<20
Surrogates										
Decachlorobiphenyl	44.0	50.0	86.4	84.8	50.0	92.8	97.6	14.0	30-150	<20
Tetrachloro-m-xylene	44.0	50.0	86.4	84.8	50.0	83.2	78.4	7.8	30-150	<20

QC Batch No: 111416.02; Dup or Spiked Sample: 85282.06; LCS: Clean Sand; QC Prepared: 11/14/2016; QC Analyzed: 11/16/2016; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	500	398	79.6	50-150						
Aroclor-1260 (PCB-1260)	500	398	79.6	50-150						
Surrogates										
Decachlorobiphenyl	50.0	44.0	88.0	30-150						
Tetrachloro-m-xylene	50.0	44.0	88.0	30-150						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Clark Seif Clark, Inc
110 Pine Ave Suite 925
Long Beach, CA 90802

Telephone: (562)435-8080
Attention: Aaron Garrett

Number of Pages	**5**
Date Received	**12/19/2016**
Date Reported	**12/23/2016**

Job Number	Order Date	Client
85886	12/19/2016	CSC-LB

Project ID: 612047
Project Name: 612047

Enclosed please find results of analyses of 10 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

CHEMTEK Environmental Laboratories Inc.
13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

Send Data and Invoice to CSC

Job No.: 85886

Page: 1 of 1

CUSTOMER INFORMATION

COMPANY NAME: CSC

PROJECT CONTACT: Email:

ADDRESS:

PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME # 612047 P.O. No.

SITE ADDRESS:

SAMPLED BY: ☐ EDF Turn Around Time NORM ☑ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	8082 PCB's	
1	SO2-10	12-10		SO				1										X	85886.01
2	3-10							1											85886.02
3	4-10							1											85886.03
4	5-10							1											85886.04
5	6-10							1											85886.05
6	7-10							1											85886.06
7	SO8-4							1											85886.07
8	8-8							1											85886.08
9	SO9-4							1											85886.09
10	9-8							1										X	85886.10
11																			
12																			
13																			
14																			
15																			
16																			

ANALYSIS REQUIRED

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Murth	Chemt	12/16/16	
RECEIVED BY:	[illegible]	AETL	12/19/16	1152
RELINQUISHED BY:	C. Rodgers	AETL	12/19/16	1810
RECEIVED FOR LABORATORY BY:	Antin	AETL	12/19/16	1810

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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Ordered By

Clark Seif Clark, Inc
110 Pine Ave Suite 925
Long Beach, CA 90802

Telephone: (562)435-8080
Attention: Aaron Garrett

Project ID: 612047
Date Received 12/19/2016
Date Reported 12/23/2016

Job Number	Order Date	Client
85886	12/19/2016	CSC-LB

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 10 samples with the following specification on 12/19/2016.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
85886.01	SO2-10	12/10/2016	Soil	1
85886.02	SO3-10	12/10/2016	Soil	1
85886.03	SO4-10	12/10/2016	Soil	1
85886.04	SO5-10	12/10/2016	Soil	1
85886.05	SO6-10	12/10/2016	Soil	1
85886.06	SO7-10	12/10/2016	Soil	1
85886.07	SO8-4	12/10/2016	Soil	1
85886.08	SO8-8	12/10/2016	Soil	1
85886.09	SO9-4	12/10/2016	Soil	1
85886.10	SO9-8	12/10/2016	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082)	12/26/2016	2	Normal	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Clark Seif Clark, Inc
110 Pine Ave
Suite 925
Long Beach, CA 90802

Telephone: (562)435-8080
Attn: Aaron Garrett
Page: **2**

Project ID: 612047
Project Name: 612047

AETL Job Number	Submitted	Client
85886	12/19/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 122116

Our Lab I.D.			Method Blank	**85886.01**	**85886.02**	**85886.03**	**85886.04**
Client Sample I.D.				SO2-10	SO3-10	SO4-10	SO5-10
Date Sampled				12/10/2016	12/10/2016	12/10/2016	12/10/2016
Date Prepared			12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	**85886.01**	**85886.02**	**85886.03**	**85886.04**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		107	108	105	109	100
Tetrachloro-m-xylene	30-150		115	102	100	111	97.2

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ANALYTICAL RESULTS

Ordered By

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110 Pine Ave
Suite 925
Long Beach, CA 90802

Telephone: (562)435-8080
Attn: Aaron Garrett
Page: **3**

Project ID: 612047
Project Name: 612047

AETL Job Number	Submitted	Client
85886	12/19/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 122116

Our Lab I.D.			85886.05	85886.06	85886.07	85886.08	85886.09
Client Sample I.D.			SO6-10	SO7-10	SO8-4	SO8-8	SO9-4
Date Sampled			12/10/2016	12/10/2016	12/10/2016	12/10/2016	12/10/2016
Date Prepared			12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			12/21/2016	12/21/2016	12/21/2016	12/21/2016	12/21/2016
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.			**85886.05**	**85886.06**	**85886.07**	**85886.08**	**85886.09**
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Decachlorobiphenyl	30-150		76.8	73.8	106	102	96.4
Tetrachloro-m-xylene	30-150		76.6	76.4	101	107	119

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ANALYTICAL RESULTS

Ordered By

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110 Pine Ave
Suite 925
Long Beach, CA 90802

Telephone: (562)435-8080
Attn: Aaron Garrett
Page: **4**

Project ID: 612047
Project Name: 612047

AETL Job Number	Submitted	Client
85886	12/19/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 122116

Our Lab I.D.			**85886.10**				
Client Sample I.D.			SO9-8				
Date Sampled			12/10/2016				
Date Prepared			12/21/2016				
Preparation Method			3550B				
Date Analyzed			12/21/2016				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	25.0	50.0	ND				
Aroclor-1221 (PCB-1221)	25.0	50.0	ND				
Aroclor-1232 (PCB-1232)	25.0	50.0	ND				
Aroclor-1242 (PCB-1242)	25.0	50.0	ND				
Aroclor-1248 (PCB-1248)	25.0	50.0	ND				
Aroclor-1254 (PCB-1254)	25.0	50.0	ND				
Aroclor-1260 (PCB-1260)	25.0	50.0	ND				
Aroclor-1262 (PCB-1262)	25.0	50.0	ND				
Aroclor-1268 (PCB-1268)	25.0	50.0	ND				
Our Lab I.D.			**85886.10**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		110				
Tetrachloro-m-xylene	30-150		126				

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QUALITY CONTROL RESULTS

Ordered By

Clark Seif Clark, Inc
110 Pine Ave
Suite 925
Long Beach, CA 90802

Telephone: (562)435-8080
Attn: Aaron Garrett
Page: **5**

Project ID: 612047
Project Name: 612047

AETL Job Number	Submitted	Client
85886	12/19/2016	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 122116; Dup or Spiked Sample: 85886.01; LCS: Clean Sand; QC Prepared: 12/21/2016; QC Analyzed: 12/21/2016; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	328	65.6	500	304	60.8	7.6	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	500	365	73.0	500	392	78.4	7.1	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	50.0	38.1	76.2	50.0	38.2	76.4	<1	30-150	<20
Tetrachloro-m-xylene	0.00	50.0	42.4	84.8	50.0	40.0	80.0	5.8	30-150	<20

QC Batch No: 122116; Dup or Spiked Sample: 85886.01; LCS: Clean Sand; QC Prepared: 12/21/2016; QC Analyzed: 12/21/2016; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	305	61.0	500	278	55.6	9.3	50-150	<20	
Aroclor-1260 (PCB-1260)	500	372	74.4	500	368	73.6	1.1	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	36.2	72.4	50.0	38.9	77.8	7.2	30-150	<20	
Tetrachloro-m-xylene	50.0	38.9	77.8	50.0	41.0	81.9	5.1	30-150	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Clark Seif Clark, Inc
4010 Watson Plaza Drive Suite 170
Lakewood, CA 90712-

Telephone: (562)435-8080
Attention: Aaron Garrett

Number of Pages 17
Date Received 07/25/2017
Date Reported 08/03/2017

Job Number	Order Date	Client
88704	07/25/2017	CSC-LB

Project ID: 707074
Project Name: North Hollywood High

Enclosed please find results of analyses of 27 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

CHEMTEK Environmental Laboratories Inc.
13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

Job No.: 88704

Page: 1 of 2

CUSTOMER INFORMATION

COMPANY NAME: CSC Engineering
PROJECT CONTACT: Aaron Garrett Email: AGarrett@csceng.com
ADDRESS:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME North Hollywood High - 707094 P.O. No.
SITE ADDRESS:
SAMPLED BY: CSC ☐ EDF
Turn Around Time NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐ ____

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCP's	[redacted]	PCB's		
1	SB111 -0.5	7/20/17		SO				1					88704.01					X	[redacted]			
2	SB 111 - 1.5	7/20/17		SO				1					88704.02					X				
3	SB 111 - 2.5	7/20/17						1					88704.03					X				
4	SB 112 -0.5							1					88704.04					X				
5	SB112 - 1.5							1					88704.05					X				
6	SB112 - 2.5							1					88704.06					X				
7	SB113 - 0.5							1					88704.07					X		X		
8	SB113 - 1.5							1					88704.08					X				
9	SB113 - 2.5							1					88704.09					X				
10	SB114 - 0.5					Run duplicate for OCP's		1					88704.10					X				
11	SB114 - 1.5							1					88704.11					X				
12	SB114 - 2.5							1					88704.12					X				
13	SB115 - 0.5							1					88704.13					X				
14	SB115 - 1.5							1					88704.14					X				
15	SB115 - 2.5							1			–		88704.15					X				
16																						

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	James Moon	Chemtek Cal	7/25/17	1030
RECEIVED BY:	[illegible] P.	ACTL	7/25/17	1030
RELINQUISHED BY:	C. [illegible]	ACTL	7/25/17	1330
RECEIVED FOR LABORATORY BY:	Jean Sandu	ACTL	07/25/17	1330

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : **WHITE** with report / **YELLOW** to **CHEMTEK** / **PINK** to courier

***Type**: **SO**-Soil **GW**-Ground Water **WW**-Waste Water **AQ**-Aqueous **A**-Air **OT**-Other

CHEMTEK Environmental Laboratories Inc.

13554 Larwin Circle, Santa Fe Springs, CA 90670
Tel. (562) 926-9848 FAX (562) 926-8324 Email: ChemtekLabs@hotmail.com
CA Dept of Health Accredited. (ELAP No. 1435) & Mobile Lab (ELAP No. 2629)

CHAIN OF CUSTODY RECORD

Job No.: 88704

CUSTOMER INFORMATION

COMPANY NAME: CSC Engineering
PROJECT CONTACT: Aaron Garrett Email: AGarrett@cscceng.com
ADDRESS:
PHONE: FAX:

PROJECT INFORMATION

PROJECT NAME North Hollywood High-707074 P.O. No.
SITE ADDRESS:
SAMPLED BY: ☐ EDF
Turn Around Time NORM ☒ 24 hr ☐ 48 hr ☐ Other ☐

	SAMPLE ID	DATE SAMPLED	TIME SAMPLED	TYPE *	pH/Time	REMARKS	Preserved	NO. OF CONT	8015M TPH G or GRO	8015M TPH D or DRO	CARBON CHAIN	VOCs (8260 B) FULL	OXYGENATES (8260 B) SHORT	COD / TSS / BOD / TDS	pH, Conductivity, Turbidity	Sulfide, Cyanide, O&G	CAM 17 Metals	OCPs		PCB's		
1	SB116-0.5	7/20/17		SO				1						88704.16				X		X		
2	SB116-1.5	7/20/17		SO				1						88704.17				X				
3	SB116-2.5	7/20/17		SO				1						88704.18				X				
4	SB117-0.5	7/20/17		SO		Run duplicate for OCP's only		1						88704.19				X		X		
5	SB117-1.5	↓		↓				1						88704.20				X				
6	SB117-2.5							1						88704.21				X				
7	SB118-0.5							1						88704.22				X				
8	SB118-1.5							1						88704.23				X				
9	SB118-2.5							1						88704.24				X				
10	SB119-0.5							1						88704.25				X				
11	SB119-1.5							1						88704.26				X				
12	SB119-2.5	↓		↓				1						88704.27				X				
13						Please email data and invoice to Aaron garrett.																	
14																						
15																						
16						AGarrett@cscceng.com.																	

SIGNATURE	PRINT NAME	COMPANY NAME	DATE	TIME
RELINQUISHED BY:	Jamar Moon	Chemtek Labs	7/25	1031
RECEIVED BY:	[illegible]	ACTL	7/25/17	1031
RELINQUISHED BY:	[illegible]	ACTL	7/25/17	1330
RECEIVED FOR LABORATORY BY:	Jean Lande	ACTL	07/25/17	1330

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made.

Distribution : WHITE with report / YELLOW to CHEMTEK / PINK to courier

*Type: SO-Soil GW-Ground Water WW-Waste Water AQ-Aqueous A-Air OT-Other

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COOLER RECEIPT FORM

Client Name: Chemtech ENV. Lab

Project Name:

AETL Job Number: 88704

Date Received: 07/25/17 Received by: Jean Claude

Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.1°C, No 2: _____, No 3: _____

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): _____

How are samples preserved: ☐ None, ☐ Ice , ☒ Blue Ice, ☐ Dry Ice
☒ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	X		
2. Are the Sample labels legible?	X		
3. Do samples match the COC?	X		
4. Are the required analyses clear?	X		
5. Is there enough samples for required analysis?	X		
6. Are samples sealed with evidence tape?	NA		
7. Are sample containers in good condition?	X		
8. Are samples preserved?	X		
9. Are samples preserved properly for the intended analysis?	X		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?			

Explain all "No" answers for above questions:

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Ordered By

Clark Seif Clark, Inc
4010 Watson Plaza Drive Suite 170
Lakewood, CA 90712-

Telephone: (562)435-8080
Attention: Aaron Garrett

Project ID: 707074
Date Received 07/25/2017
Date Reported 08/03/2017

Job Number	Order Date	Client
88704	07/25/2017	CSC-LB

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 27 samples with the following specification on 07/25/2017.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
88704.01	SB111-0.5	07/20/2017	Soil	1
88704.02	SB111-1.5	07/20/2017	Soil	1
88704.03	SB111-2.5	07/20/2017	Soil	1
88704.04	SB112-0.5	07/20/2017	Soil	1
88704.05	SB112-1.5	07/20/2017	Soil	1
88704.06	SB112-2.5	07/20/2017	Soil	1
88704.08	SB113-1.5	07/20/2017	Soil	1
88704.09	SB113-2.5	07/20/2017	Soil	1
88704.10	SB114-0.5	07/20/2017	Soil	1
88704.11	SB114-1.5	07/20/2017	Soil	1
88704.12	SB114-2.5	07/20/2017	Soil	1
88704.13	SB115-0.5	07/20/2017	Soil	1
88704.14	SB115-1.5	07/20/2017	Soil	1
88704.15	SB115-2.5	07/20/2017	Soil	1
88704.17	SB116-1.5	07/20/2017	Soil	1
88704.18	SB116-2.5	07/20/2017	Soil	1
88704.20	SB117-1.5	07/20/2017	Soil	1
88704.21	SB117-2.5	07/20/2017	Soil	1
88704.22	SB118-0.5	07/20/2017	Soil	1
88704.23	SB118-1.5	07/20/2017	Soil	1
88704.24	SB118-2.5	07/20/2017	Soil	1
88704.25	SB119-0.5	07/20/2017	Soil	1
88704.26	SB119-1.5	07/20/2017	Soil	1
88704.27	SB119-2.5	07/20/2017	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(8081A)	08/01/2017	2	Normal	ug/Kg

Continued

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Project ID: 707074
Date Received 07/25/2017
Date Reported 08/03/2017

Job Number	Order Date	Client
88704	07/25/2017	CSC-LB

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
88704.07	SB113-0.5	07/20/2017	Soil	1
88704.16	SB116-0.5	07/20/2017	Soil	1
88704.19	SB117-0.5	07/20/2017	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8081A)	08/01/2017	2	Normal	ug/Kg
(8082)	08/01/2017	2	Normal	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Page: **2**

Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 072617EB1

Our Lab I.D.			Method Blank	88704.01	88704.02	88704.03	88704.04
Client Sample I.D.				SB111-0.5	SB111-1.5	SB111-2.5	SB112-0.5
Date Sampled				07/20/2017	07/20/2017	07/20/2017	07/20/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND	ND
Dieldrin	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	88704.01	88704.02	88704.03	88704.04
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		71.0	72.2	79.0	65.2	84.8
Tetrachloro-m-xylene	30-150		59.8	69.4	69.8	68.6	77.0

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ANALYTICAL RESULTS

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Attn: Aaron Garrett
Page: **4**

Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 072617EB1

Our Lab I.D.			88704.05	88704.06	88704.07	88704.08	88704.09
Client Sample I.D.			SB112-1.5	SB112-2.5	SB113-0.5	SB113-1.5	SB113-2.5
Date Sampled			07/20/2017	07/20/2017	07/20/2017	07/20/2017	07/20/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND	ND
Dieldrin	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			88704.05	88704.06	88704.07	88704.08	88704.09
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		76.8	66.8	75.2	75.0	84.8
Tetrachloro-m-xylene	30-150		64.8	65.6	57.6	51.8	50.0

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ANALYTICAL RESULTS

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Page: 6

Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 072617EB1

Our Lab I.D.			88704.10	88704.11	88704.12	88704.13	88704.14
Client Sample I.D.			SB114-0.5	SB114-1.5	SB114-2.5	SB115-0.5	SB115-1.5
Date Sampled			07/20/2017	07/20/2017	07/20/2017	07/20/2017	07/20/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	23.4	ND	ND	6.28	ND
Chlordane (alpha)	1.0	2.0	9.13	ND	ND	2.66	ND
4,4'-DDD (DDD)	1.0	2.0	2.93	ND	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	3.42	ND	ND	ND	ND
4,4'-DDT (DDT)	1.0	2.0	28.6	ND	ND	ND	ND
Dieldrin	1.0	2.0	1.08J	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	14.3	ND	ND	3.62	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			88704.10	88704.11	88704.12	88704.13	88704.14
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		67.0	62.2	72.2	59.8	62.2
Tetrachloro-m-xylene	30-150		67.0	61.0	43.4	47.2	47.2

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ANALYTICAL RESULTS

Ordered By

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Attn: Aaron Garrett
Page: 8

Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 072617EB1

Our Lab I.D.			88704.15	88704.16	88704.17	88704.18	88704.19
Client Sample I.D.			SB115-2.5	SB116-0.5	SB116-1.5	SB116-2.5	SB117-0.5
Date Sampled			07/20/2017	07/20/2017	07/20/2017	07/20/2017	07/20/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	39.0	4.76	9.74	ND
Chlordane (alpha)	1.0	2.0	ND	17.8	2.11	3.96	ND
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	2.64	ND	1.37J	ND
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND	ND
Dieldrin	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	21.2	2.65	5.78	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			88704.15	88704.16	88704.17	88704.18	88704.19
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		76.6	77.4	70.2	57.8	83.6
Tetrachloro-m-xylene	30-150		52.4	54.4	55.8	48.4	43.2

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ANALYTICAL RESULTS

Ordered By

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Attn: Aaron Garrett
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Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 072617EB2

Our Lab I.D.			Method Blank	88704.20	88704.21	88704.22	88704.23
Client Sample I.D.				SB117-1.5	SB117-2.5	SB118-0.5	SB118-1.5
Date Sampled				07/20/2017	07/20/2017	07/20/2017	07/20/2017
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	07/26/2017
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	07/27/2017
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	ND	ND	2.56	ND
Chlordane (alpha)	1.0	2.0	ND	ND	ND	1.08J	ND
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	1.71J	ND
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND	ND
Dieldrin	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	ND	ND	1.48J	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	85.0	170.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	88704.20	88704.21	88704.22	88704.23
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		90.8	83.4	86.8	55.8	59.4
Tetrachloro-m-xylene	30-150		53.4	52.4	62.8	55.6	57.4

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Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 072617EB2

Our Lab I.D.			88704.24	88704.25	88704.26	88704.27	
Client Sample I.D.			SB118-2.5	SB119-0.5	SB119-1.5	SB119-2.5	
Date Sampled			07/20/2017	07/20/2017	07/20/2017	07/20/2017	
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Aldrin	1.0	2.0	ND	ND	ND	ND	
Chlordane (Total)	1.0	2.0	ND	3.06	ND	ND	
Chlordane (alpha)	1.0	2.0	ND	1.20J	ND	ND	
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	ND	
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND	
Dieldrin	1.0	2.0	ND	ND	ND	ND	
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	
Endrin	1.0	2.0	ND	ND	ND	ND	
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	
Endrin ketone	1.0	2.0	ND	ND	ND	ND	
Chlordane (gamma)	1.0	2.0	ND	1.86J	ND	ND	
Heptachlor	1.0	2.0	ND	ND	ND	ND	
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	
Methoxychlor	5.0	10.0	ND	ND	ND	ND	
Toxaphene	85.0	170.0	ND	ND	ND	ND	

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ANALYTICAL RESULTS

Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			88704.24	88704.25	88704.26	88704.27	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150		61.8	60.8	50.4	60.4	
Tetrachloro-m-xylene	30-150		64.8	66.0	62.4	69.2	

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Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 072617

Our Lab I.D.			Method Blank	**88704.07**	**88704.16**	**88704.19**	
Client Sample I.D.				SB113-0.5	SB116-0.5	SB117-0.5	
Date Sampled				07/20/2017	07/20/2017	07/20/2017	
Date Prepared			07/26/2017	07/26/2017	07/26/2017	07/26/2017	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			07/27/2017	07/27/2017	07/27/2017	07/27/2017	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND	ND	
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND	ND	
Our Lab I.D.			Method Blank	**88704.07**	**88704.16**	**88704.19**	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Decachlorobiphenyl	30-150		119	101	108	104	
Tetrachloro-m-xylene	30-150		107	94.0	89.8	76.0	

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Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 072617EB1; Dup or Spiked Sample: 88704.05; LCS: Clean Sand; QC Prepared: 07/26/2017; QC Analyzed: 07/26/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	18.7	93.5	20.0	18.5	92.5	1.1	40-150	<40
4,4'-DDT (DDT)	0.00	50.0	36.8	73.6	50.0	37.2	74.4	1.1	40-150	<40
Dieldrin	0.00	50.0	47.8	95.6	50.0	46.4	92.8	3.0	40-150	<40
Endrin	0.00	50.0	45.0	90.0	50.0	40.9	81.8	9.5	40-150	<40
Heptachlor	0.00	20.0	13.5	67.5	20.0	13.1	65.5	3.0	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	20.2	101	20.0	23.4	117	14.7	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	41.4	82.8	50.0	38.6	77.2	7.0	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	35.7	71.4	50.0	35.3	70.6	1.1	30-150	<40

QC Batch No: 072617EB1; Dup or Spiked Sample: 88704.05; LCS: Clean Sand; QC Prepared: 07/26/2017; QC Analyzed: 07/26/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	16.8	84.0	20.0	17.5	87.5	4.1	50-150	<40	
4,4'-DDT (DDT)	50.0	25.4	50.8	50.0	26.9	53.8	5.7	50-150	<40	
Dieldrin	50.0	42.8	85.6	50.0	43.2	86.4	<1	50-150	<40	
Endrin	50.0	28.8	57.6	50.0	31.6	63.2	9.3	50-150	<40	
Heptachlor	20.0	12.5	62.5	20.0	12.7	63.5	1.6	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	17.7	88.5	20.0	18.2	91.0	2.8	50-150	<40	
Surrogates										
Decachlorobiphenyl	50.0	34.8	69.6	50.0	36.7	73.4	5.3	30-150	<40	
Tetrachloro-m-xylene	50.0	33.5	67.0	50.0	33.1	66.2	1.2	30-150	<40	

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Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 072617EB2; Dup or Spiked Sample: 88704.27; LCS: Clean Sand; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	17.8	89.0	20.0	18.3	91.5	2.8	40-150	<40
4,4'-DDT (DDT)	0.00	50.0	28.7	57.4	50.0	28.1	56.2	2.1	40-150	<40
Dieldrin	0.00	50.0	44.1	88.2	50.0	46.8	93.6	5.9	40-150	<40
Endrin	0.00	50.0	37.1	74.2	50.0	34.9	69.8	6.1	40-150	<40
Heptachlor	0.00	20.0	12.1	60.5	20.0	12.1	60.5	<1	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	18.2	91.0	20.0	18.5	92.5	1.6	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	50.0	36.7	73.4	50.0	42.7	85.4	15.1	30-150	<40
Tetrachloro-m-xylene	0.00	50.0	34.7	69.4	50.0	37.5	75.0	7.8	30-150	<40

QC Batch No: 072617EB2; Dup or Spiked Sample: 88704.27; LCS: Clean Sand; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	17.4	87.0	20.0	17.0	85.0	2.3	50-150	<40	
4,4'-DDT (DDT)	50.0	27.5	55.0	50.0	25.2	50.4	8.7	50-150	<40	
Dieldrin	50.0	43.8	87.6	50.0	43.1	86.2	1.6	50-150	<40	
Endrin	50.0	31.3	62.6	50.0	27.3	54.6	13.7	50-150	<40	
Heptachlor	20.0	12.3	61.5	20.0	12.8	64.0	4.0	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	18.0	90.0	20.0	17.7	88.5	1.7	50-150	<40	
Surrogates										
Decachlorobiphenyl	50.0	41.4	82.8	50.0	40.1	80.2	3.2	30-150	<40	
Tetrachloro-m-xylene	50.0	32.2	64.4	50.0	35.2	70.4	8.9	30-150	<40	

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Project ID: 707074
Project Name: North Hollywood High

AETL Job Number	Submitted	Client
88704	07/25/2017	CSC-LB

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 072617; Dup or Spiked Sample: 88708.01; LCS: Clean Sand; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	435	87.0	500	495	99.0	12.9	50-150	<20
Aroclor-1260 (PCB-1260)	0.00	500	565	113	500	550	110	2.7	50-150	<20
Surrogates										
Decachlorobiphenyl	0.00	50.0	53.0	106	50.0	53.0	106	<1	30-150	<20
Tetrachloro-m-xylene	0.00	50.0	52.5	105	50.0	60.0	120	13.3	30-150	<20

QC Batch No: 072617; Dup or Spiked Sample: 88708.01; LCS: Clean Sand; QC Prepared: 07/26/2017; QC Analyzed: 07/27/2017; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aroclor-1016 (PCB-1016)	500	465	93.0	500	436	87.2	6.4	50-150	<20	
Aroclor-1260 (PCB-1260)	500	441	88.2	500	472	94.4	6.8	50-150	<20	
Surrogates										
Decachlorobiphenyl	50.0	47.7	95.4	50.0	50.5	101	5.7	30-150	<20	
Tetrachloro-m-xylene	50.0	57.5	115	50.0	52.5	105	9.1	30-150	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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November 21, 2016

Mr. Aaron Garrett
Clark Seif Clark, Inc.
110 Pine Ave., Suite 925
Long Beach, CA 90802

Dear Mr. Garrett:

This letter presents the results of the soil vapor investigation conducted by Optimal Technology (Optimal), for Clark Seif Clark, Inc. on November 19-20, 2016. The study was performed at 5231 Colfax Ave., North Hollywood, California.

Optimal was contracted to perform a soil vapor survey at this site to screen for possible chlorinated solvents and aromatic hydrocarbons. The primary objective of this soil vapor investigation was to determine if soil vapor contamination is present in the subsurface soil.

Gas Sampling Method

At each sampling location an electric vacuum pump set to draw 0.2 liters per minute (L/min) of soil vapor was attached to the existing well and purged prior to sample collection. Vapor samples were obtained in SGE gas-tight syringes by drawing the sample through a luer-lock connection which connects the sampling probe and the vacuum pump. Samples were immediately injected into the gas chromatograph/purge and trap after collection. New tubing was used at each sampling point to prevent cross contamination.

All analyses were performed on a laboratory grade Hewlett Packard model 5890 Series II gas chromatograph equipped with a Hewlett Packard model 5971 Mass Spectra Detector and Tekmar LSC 2000 Purge and Trap. An SGE capillary column using helium as the carrier gas was used to perform all analysis. All results were collected on a personal computer utilizing Hewlett Packard's 5971 MS and chromatographic data collection and handling system.

Quality Assurance

5-Point Calibration
The initial five point calibration consisted of 20, 50, 100, 200 and 500 ul injections of the calibration standard. A calibration factor on each analyte was generated using a best fit line method using the HP data system. If the r^2 factor generated from this line was not greater than

0.990, an additional five point calibration would have been performed. Method reporting limits were calculated to be 0.01-1.0 micrograms per Liter (ug/L) for the individual compounds.

A daily calibration check was performed using a pre-mixed standard supplied by Scotty Analyzed Gases. The standard contained common halogenated solvents and aromatic hydrocarbons (see Table 1). The individual compound concentrations in the standards ranged between 0.025 nanograms per microliter (ng/ul) and 0.25 ng/ul.

TABLE 1

Dichlorodifluoromethane	Carbon Tetrachloride	Chloroethane
Trichlorofluoromethane	1,2-Dichloroethane	Benzene
1,1-Dichloroethene	Trichloroethene	Toluene
Methylene Chloride	1,1,2-Trichloroethane	Ethylbenzene
trans-1,2-Dichloroethene	Tetrachloroethene	m-/p-Xylene
1,1-Dichloroethane	Chloroform	o-Xylene
cis-1,2-Dichloroethene	1,1,1,2-Tetrachloroethane	Vinyl Chloride
1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	Freon 113
4-Methyl-2-Pentanone	Cyclohexane	Acetone
Chlorobenzene	2-Butanone	Isobutane

Sample Replicates
A replicate analysis (duplicate) was run to evaluate the reproducibility of the sampling system and instrument. The difference between samples did not vary more than 20%.

Equipment Blanks
Blanks were run at the beginning of each workday and after calibrations. The blanks were collected using an ambient air sample. These blanks checked the septum, syringe, GC column, GC detector and the ambient air. Contamination was not found in any of the blanks analyzed during this investigation. Blank results are given along with the sample results.

Tracer Gas Leak Test
A tracer gas was applied to the soil gas probes at each point of connection in which ambient air could enter the sampling system. These points include the top of the sampling probe where the tubing meets the probe connection and the surface bentonite seals. Isobutane was used as the tracer gas. No Isobutane was found in any of the samples collected.

Purge Volume
The standard purge volume of three volumes was purged in accordance with the July 2015 DTSC/RWQCB Advisory for Active Soil Gas Investigations.

Shut-in Test
A shut-in test was conducted prior to purging or sampling each location to check for leaks in the above-ground sampling system. The system was evaluated to a minimum measured vacuum of

100 inches of water. The vacuum gauge was calibrated and sensitive enough to indicate a water pressure change of at least 0.5 inches.

Scope of Work

To achieve the objective of this investigation a total of 32 vapor samples were collected from 15 locations at the site. Sampling depths, vacuum readings, purge volume and sampling volumes are given on the analytical results page. All the collected vapor samples were analyzed on-site using Optimal's mobile laboratory.

Subsurface Conditions

Soil conditions offered sampling flows at 0" water vacuum. Depth to groundwater was unknown at the time of the investigation.

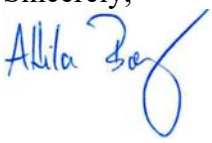
Results

During this vapor investigation none of the compounds listed in Table 1 above were detected above the listed reporting limits. A complete table of analytical results is included with this report.

Disclaimer

All conclusions presented in this letter are based solely on the information collected by the soil vapor survey conducted by Optimal Technology. Soil vapor testing is only a subsurface screening tool and does not represent actual contaminant concentrations in either the soil and/or groundwater. We enjoyed working with you on this project and look forward to future projects. If you have any questions please contact me at (877) 764-5427.

Sincerely,



Attila Baly
Project Manager

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 5231 Colfax Ave., North Hollywood, CA
Analyst: J. Rice **Collector:** J. Rice
Method: Modified EPA 8260B

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detector: HP-5971 Mass Spectrometer

Date: 11/19/16

SAMPLE ID	BLANK-1	SV-5-5'	SV-5-15'	SV-7-5'	SV-7-15'	SV-6-5'	SV-6-15'	SV-1-5'
Sampling Depth (Ft.)	N/A	5.0	15.0	5.0	15.0	5.0	15.0	5.0
Purge Volume (ml)	N/A	1,130	1,290	1,130	1,290	1,130	1,290	1,130
Vacuum (in. of Water)	N/A	0	0	0	0	0	0	0
Injection Volume (ul)	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Dilution Factor	1	1	1	1	1	1	1	1

COMPOUND	REP. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.02	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	0.10	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	0.10	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.01	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	1.00	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.03	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.40	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Isobutane (Tracer Gas)	1.00	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = Below Listed Reporting Limit

OPTIMAL TECHNOLOGY
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SOIL VAPOR RESULTS

Site Name: 5231 Colfax Ave., North Hollywood, CA
Analyst: J. Rice **Collector:** J. Rice
Method: Modified EPA 8260B

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detector: HP-5971 Mass Spectrometer

Date: 11/19/16

SAMPLE ID	SV-1-15'	SV-2-5'	SV-2-15'	SV-3-5'	SV-3-15'	SV-4-5'	SV-4-15'	SV-14-5'
Sampling Depth (Ft.)	15.0	5.0	15.0	5.0	15.0	5.0	15.0	5.0
Purge Volume (ml)	1,290	1,130	1,290	1,130	1,290	1,130	1,290	1,130
Vacuum (in. of Water)	0	0	0	0	0	0	0	0
Injection Volume (ul)	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Dilution Factor	1	1	1	1	1	1	1	1

COMPOUND	REP. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.02	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	0.10	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	0.10	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.01	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	1.00	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.03	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.40	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Isobutane (Tracer Gas)	1.00	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = Below Listed Reporting Limit

OPTIMAL TECHNOLOGY
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SOIL VAPOR RESULTS

Site Name: 5231 Colfax Ave., North Hollywood, CA
Analyst: J. Rice **Collector:** J. Rice
Method: Modified EPA 8260B

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detector: HP-5971 Mass Spectrometer

Date: 11/19/16

SAMPLE ID	SV-14-15'	SV-14-15' Dup						
Sampling Depth (Ft.)	15.0	15.0						
Purge Volume (ml)	1,290	1,290						
Vacuum (in. of Water)	0	0						
Injection Volume (ul)	50,000	50,000						
Dilution Factor	1	1						

COMPOUND	REP. LIMIT	CONC (ug/L)	CONC (ug/L)					
Dichlorodifluoromethane	1.00	ND	ND					
Chloroethane	1.00	ND	ND					
Trichlorofluoromethane	1.00	ND	ND					
Freon 113	1.00	ND	ND					
Methylene Chloride	1.00	ND	ND					
1,1-Dichloroethane	1.00	ND	ND					
Chloroform	1.00	ND	ND					
1,1,1-Trichloroethane	1.00	ND	ND					
Carbon Tetrachloride	0.02	ND	ND					
1,2-Dichloroethane	0.04	ND	ND					
Trichloroethene (TCE)	0.10	ND	ND					
1,1,2-Trichloroethane	1.00	ND	ND					
Tetrachloroethene (PCE)	0.10	ND	ND					
1,1,1,2-Tetrachloroethane	1.00	ND	ND					
1,1,2,2-Tetrachloroethane	1.00	ND	ND					
Vinyl Chloride	0.01	ND	ND					
Acetone	1.00	ND	ND					
1,1-Dichloroethene	1.00	ND	ND					
trans-1,2-Dichloroethene	1.00	ND	ND					
2-Butanone (MEK)	1.00	ND	ND					
cis-1,2-Dichloroethene	1.00	ND	ND					
Cyclohexane	1.00	ND	ND					
Benzene	0.03	ND	ND					
4-Methyl-2-Pentanone	1.00	ND	ND					
Toluene	1.00	ND	ND					
Chlorobenzene	1.00	ND	ND					
Ethylbenzene	0.40	ND	ND					
m/p-Xylene	1.00	ND	ND					
o-Xylene	1.00	ND	ND					
Isobutane (Tracer Gas)	1.00	ND	ND					

Note: ND = Below Listed Reporting Limit

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 5231 Colfax Ave., North Hollywood, CA
Analyst: A. Baly **Collector:** A. Baly
Method: Modified EPA 8260B

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detector: HP-5971 Mass Spectrometer

Date: 11/20/16

SAMPLE ID	BLANK-2	SV-9-5'	SV-9-15'	SV-10-5'	SV-10-15'	SV-15-5'	SV-15-15'	SV-13-5'
Sampling Depth (Ft.)	N/A	5.0	15.0	5.0	15.0	5.0	15.0	5.0
Purge Volume (ml)	N/A	1,130	1,290	1,130	1,290	1,130	1,290	1,130
Vacuum (in. of Water)	N/A	0	0	0	0	0	0	0
Injection Volume (ul)	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Dilution Factor	1	1	1	1	1	1	1	1

COMPOUND	REP. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.02	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	0.10	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	0.10	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.01	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	1.00	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.03	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.40	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Isobutane (Tracer Gas)	1.00	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = Below Listed Reporting Limit

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 5231 Colfax Ave., North Hollywood, CA
Analyst: A. Baly **Collector:** A. Baly
Method: Modified EPA 8260B

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detector: HP-5971 Mass Spectrometer

Date: 11/20/16

SAMPLE ID	SV-13-15'	SV-12-5'	SV-12-15'	SV-8-5'	SV-8-15'	SV-11-5'	SV-11-15'	SV-11-15' Dup
Sampling Depth (Ft.)	15.0	5.0	15.0	5.0	15.0	5.0	15.0	15.0
Purge Volume (ml)	1,290	1,130	1,290	1,130	1,290	1,130	1,290	1,290
Vacuum (in. of Water)	0	0	0	0	0	0	0	0
Injection Volume (ul)	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Dilution Factor	1	1	1	1	1	1	1	1

COMPOUND	REP. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.02	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.04	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	0.10	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	0.10	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	0.01	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	1.00	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.03	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.40	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1.00	ND	ND	ND	ND	ND	ND	ND	ND
Isobutane (Tracer Gas)	1.00	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = Below Listed Reporting Limit

APPENDIX E

NOISE REPORT

NOISE REPORT

FOR THE

NORTH HOLLYWOOD HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

Los Angeles Unified School District
Los Angeles County, California



Prepared for:

Los Angeles Unified School District, OEHS
333 S. Beaudry Avenue 21st Floor
Los Angeles, CA 90017

Prepared by:

UltraSystems Environmental Inc.
16431 Scientific Way
Irvine, CA 92618
(949) 788-4900

NOVEMBER 2017

NOISE REPORT

FOR THE

NORTH HOLLYWOOD HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

Los Angeles Unified School District
Los Angeles County, California

Los Angeles Unified School District, OEHS
333 S. Beaudry Avenue 21st Floor
Los Angeles, CA 90017

November 2017

Prepared by: _____ Date: 11/14/2017
UltraSystems Environmental Inc.

Reviewed by: _____ Date: NOVEMBER 14, 2017
UltraSystems Environmental Inc.

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ATTACHMENT

Attachment 1 Noise Measurement Field Data Forms and Noise Meter Output Files

1.0 INTRODUCTION

1.1 Context

This noise and vibration technical study was prepared by UltraSystems to support an Initial Study (IS) for the North Hollywood School Comprehensive Modernization Project (Project) in the city of Los Angeles, California. The Project includes various renovations, modernizations, and reconfigurations throughout the campus, including demolition of existing facilities, construction of new facilities, site upgrades and accessibility improvements on a 25.1-acre site. Construction activities are anticipated to begin in early September 2019 and to be completed in late November 2022.

Ongoing master planning activities and facility site assessments conducted for LAUSD 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 the LAUSD outlines a series of capital improvements intended to rehabilitate and modernize these schools so they are safe, healthy, and functional places to learn.

The LAUSD prepared an Environmental Impact Report (SCH No. 2013111046) at the program level of detail to evaluate the direct and indirect environmental effects of the SUP program. The SUP Program EIR (PEIR) was certified as adequate by the LAUSD Board October 2015. As provided in Section 15168 of the State CEQA Guidelines, a Program EIR may be prepared on a series of actions that can be characterized as one large project. Use of a Program EIR provides the LAUSD (as lead agency) with the opportunity to consider broad policy alternatives and program-wide mitigation measures, and provides the LAUSD with greater flexibility to address project-specific and cumulative environmental impacts on a comprehensive basis.

Subsequent activities within the program are evaluated to determine whether an additional CEQA document needs to be prepared. However, if the Program EIR addresses the program's effects as specifically and comprehensively as possible, many subsequent activities could be found to be within the Program EIR scope, and additional environmental documents may not be required.[1] When a Program EIR is relied on for a subsequent activity, the lead agency must incorporate any feasible mitigation measures and alternatives developed in the Program EIR into the subsequent activities.[2]

1.2 PEIR Noise Summary

Table 1.2-1 summarizes the PEIR's conclusions regarding noise and vibration impacts of the SUP.

1 14 CCR Section 15168(c).
2 14 CCR Section 15168(c)(3)

Table 1.2-1
NOISE AND VIBRATION IMPACTS IDENTIFIED IN THE PEIR

No.	Environmental Threshold	Level of Impact Significance	Potential Impacts Identified in the PEIR	Applicable SCAs	Mitigation Measures
1	Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.	Potentially Significant	Noise impacts may occur from new or an increased number of sports events, use of athletic fields, and parking. The location of schools in residential neighborhoods makes it difficult to reduce exposures to less than significant levels, even with the methods prescribed in SC-N-4.	SC-N-4	Given the proximity of sensitive receivers, it may not be practical to reduce exposures further after implementing SC-N-4.
2	Exposure of persons to or generation of excessive ground borne vibration or ground borne noise levels.	Potentially Significant	School operations do not involve sources that cause substantial ground-borne vibration. However, certain types of construction activity, such as pile driving and use of explosives for rock blasting—which almost never occurs on school sites—can be annoying and can damage fragile structures. Construction methods other than these two are far less likely to have significant vibration impacts during construction.	SC-N-5 SC-N-6 SC-N-7 SC-N-8	Given the proximity of sensitive receivers, it may not be practical to reduce vibration annoyance and structural damage further after implementing SC-N-5 through SC-N-8.
3	A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project.	Less Than Significant	Where a project would add 5,000 vehicles per day to local traffic, or cause local traffic to double, traffic noise impacts could occur. However, SUP construction projects would not generate nearly that number of trips on local roadways and would not cause traffic to double.	SC-N-3	No mitigation measures are required.
4	A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project.	Potentially Significant	Construction activities associated with the SUP could cause substantial short-term noise from the use of stationary and mobile construction equipment. Exposures to nearby sensitive receivers could exceed local daytime standards, especially when several pieces of construction equipment are operated simultaneously. Even where construction is exempt from local noise limits, the short-term increase in exposures could be significant. Implementation of	SC-AQ-2 SC-N-5 SC-N-9	If SC-N-9 does not make exposures less than significant, then the noise impacts cannot be fully mitigated.

No.	Environmental Threshold	Level of Impact Significance	Potential Impacts Identified in the PEIR	Applicable SCAs	Mitigation Measures
			LAUSD Standard Conditions of Approval will reduce exposures but may not be effective enough to make them less than significant. Individual SUP projects need to be evaluated to determine the significance of construction noise.		
5	For a project located within an airport land use plan or where such a plan has not been adopted, within two miles of a public airport or public use airport, expose people residing or working in the project area to excessive noise levels. For a project within the vicinity of a private airstrip, expose people residing or working in the project area to excessive noise levels.	Less Than Significant	Although several District schools are within two nautical miles of an airport, projects conducted on existing campuses that do not involve acquisition of new property would not need to be reviewed for airport noise. It should also be noted that Education Code Section 17215 does not apply to school sites acquired prior to January 1, 1966, nor to any additions or extensions to those sites. However, exterior and interior (classroom) maximum noise exposure limits would still apply to new construction, such as a classroom, on an existing campus. Implementation of LAUSD SC-N-2 would ensure that interior noise standards related to airport noise are identified and properly addressed prior to project construction. Exterior areas at existing school campuses are already exposed to airport noise, therefore new SUP-related projects would not exacerbate the airport noise.	SC-N-2	No mitigation measures are required.

1.3 Focus of This Report

This report focuses on those noise impacts that the PEIR found to be potentially significant for the SUP in general; the questions to be answered are:

- Do the findings apply in the specific case of the North Hollywood School Comprehensive Modernization Project?
- If noise impacts are potentially significant, what combination of standard conditions of approval and project-specific mitigation measures could reduce the impacts to a less than significant level?

2.0 BACKGROUND INFORMATION

2.1.1 Seismic Safety

The Project site is located within the seismically active Southern California region and is likely to experience strong ground shaking from seismic events generated on regionally active faults. In addition to site-specific geotechnical recommendations, the Project design and construction of new buildings will comply with seismic safety requirements of the Division of State Architect (DSA) and California Building Code (CBC). Compliance with DSA and CBC requirements, as well as implementation of **SC-GEO-1**, would ensure that potential hazards from strong seismic ground shaking are addressed through the design of the new building, structures, and modifications.

2.2 Characteristics of Sound

Sound is a pressure wave transmitted through the air. It is described in terms of loudness or amplitude (measured in decibels), frequency or pitch (measured in hertz [Hz] or cycles per second), and duration (measured in seconds or minutes). The decibel (dB) scale is a logarithmic scale that describes the physical intensity of the pressure vibrations that make up any sound. The pitch of the sound is related to the frequency of the pressure vibration. Because the human ear is not equally sensitive to all frequencies, a special frequency-dependent rating scale is used to relate noise to human sensitivity. The A-weighted decibel scale (dBA) provides this compensation by discriminating against upper and lower frequencies in a manner approximating the sensitivity of the human ear. The scale is based on a reference pressure level of 20 micropascals (zero dBA). The scale ranges from zero (for the average least perceptible sound) to about 130 (for the average human pain level).

The normal range of conversation is between 34 and 66 dBA. Between 70 and 90 dBA, sound is distracting and presents an obstacle to conversation, thinking, or learning. Above 90 dBA, sound can cause permanent hearing loss. Examples of various sound levels in different environments are shown in **Table 2.1-1**.

Table 2.1-1
TYPICAL SOUND LEVELS

Common Sounds	A-Weighted Sound Level in Decibels	Subjective Impression
Oxygen Torch	120	Pain Threshold
Rock Band	110	
Pile Driver at 50 feet	100	Very Loud
Ambulance Siren at 100 feet	90	
Garbage disposal	80	
Vacuum Cleaner at 10 feet	70	Moderately Loud
Air Conditioner at 100 feet	60	
Quiet Urban Daytime	50	
Quiet Urban Nighttime	40	Quiet
Bedroom at Night	30	
Recording Studio	20	Just Audible
	10	Threshold of Hearing
	0	

Sources: Aviation Planning Associates. 1978. Calculations of Maximum A-weighted Sound Levels (dBA) Resulting from Civil Aircraft Operations.

A noise environment consists of a base of steady "background" noise that is the sum of many distant and indistinguishable noise sources. Superimposed on this background noise is the sound from individual local sources. These can vary from an occasional aircraft or train passing by to virtually continuous noise from, for example, traffic on a major highway.

To the human ear, a sound 10 dBA higher than another is judged to be twice as loud; 20 dBA higher is four times as loud; and so forth. According to the U.S. Environmental Protection Agency (USEPA 1974), a difference of more than 3 dBA is a perceptible change in environmental noise, while a 5-dBA difference typically causes a change in community reaction, and an increase of 10 dBA is perceived by people as doubling of loudness.

2.3 Noise Measurement Scales

Several rating scales have been developed to analyze adverse effects of community noise on people. Since environmental noise fluctuates over time, these scales consider that the effect of noise on people depends largely upon the total acoustical energy content of the noise, as well as the time of day when the noise occurs. Those that are applicable to this analysis are as follows:

- L_{eq}, the equivalent noise level, is an average of sound level over a defined time period (such as 1 minute, 15 minutes, 1 hour or 24 hours). Thus, the L_{eq} of a time-varying noise and that of a steady noise are the same if they deliver the same acoustic energy to the ear during exposure.

- L_{90} is a noise level that is exceeded 90 percent of the time at a given location; it is often used as a measure of "background" noise.

- L_{max} is the root mean square (RMS) maximum noise level during the measurement interval. This measurement is calculated by taking the RMS of all peak noise levels within the sampling interval. L_{max} is distinct from the peak noise level, which only includes the single highest measurement within a measurement interval.

- CNEL, the Community Noise Equivalent Level, is a 24-hour average L_{eq} with a 4.77-dBA "penalty" added to noise during the hours of 7:00 p.m. to 10:00 p.m., and a 10-dBA penalty added to noise during the hours of 10:00 p.m. to 7:00 a.m. to account for noise sensitivity in the evening and nighttime (Caltrans 2013). The logarithmic effect of these additions is that a 60-dBA 24-hour L_{eq} would result in a calculation of 66.7 dBA CNEL.

- L_{dn}, the day-night average noise, is a 24-hour average L_{eq} with an additional 10-dBA "penalty" added to noise that occurs between 10 p.m. and 7 a.m. The L_{dn} metric yields values within 1 dBA of the CNEL metric. As a matter of practice, L_{dn} and CNEL values are considered to be equivalent and are treated as such in this assessment.

2.4 Noise Attenuation

The noise level from a particular source generally declines as the distance to the receiver increases. Other factors such as the weather and reflecting or shielding also intensify or reduce the noise level at any given location. Typically, a single row of buildings between the receiver and the noise source reduces the noise level by about 5 dBA. The U.S. Department of Housing and Urban Development (HUD) has stated that exterior noise levels can normally be reduced by 15 dBA inside buildings constructed with no special noise insulation (HUD 1985). The USEPA estimates that residences in "warm" climates

provide at least 12 dBA of exterior-to-interior noise attenuation with windows open and 24 dBA with windows closed (USEPA 1974).

Noise from traffic on roads depends on the volume and speed of traffic and the distance from the traffic. A commonly used rule of thumb for traffic noise is that for every doubling of distance from the road, atmospheric spreading over "hard" or "soft" sites reduces the noise level by about 3 or 4.5 dBA, respectively. For a stationary source, the noise is reduced by at least 6 dBA for each doubling of distance. Further, because of the logarithmic nature of the decibel scale, a doubling of traffic on any given roadway or doubling a stationary source would cause a noise increase of approximately 3 dBA.

3.0 PROJECT DESCRIPTION

3.1 Introduction

As part of the District's School Upgrade Program,[3] the District plans to implement a comprehensive modernization project at North Hollywood High School in in the community of Valley Village in the City of Los Angeles, California. A campus-wide survey of the North Hollywood School campus found existing structures and mechanical systems to be outdated, requiring rehabilitation or modernization to meet current needs. Many of the issues to be addressed by the project arise from the fact that portions of the school are about 90 years old. Many of the current permanent buildings were built as early as 1927, although two expansions were undertaken in the mid-1950s and late-1990s. The proposed project would include demolition of structures that are beyond repair, construction of new buildings, upgrades to infrastructure, including sanitary sewers, water lines, landscape and electrical utilities; and seismic retrofits for building stabilization and safety.

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 and mechanical systems; and upgrades to infrastructure, including sanitary sewers, water lines, flood control, landscape and electrical utilities.

3.2 Project Location

The North Hollywood High School campus encompasses a 25.1-acre site located at 5231 Colfax Avenue in the Valley Village community of the City of Los Angeles, California**.** The school serves the communities of North Hollywood, Sun Valley, Studio City, and Toluca Lake. The surrounding neighborhood consists primarily of single-family and multi-family residences.[4] **Figures 3.2-1** and **3.2-2** depict the site in its regional and local contexts, respectively. Regional access to the campus is provided by Magnolia Boulevard to the south, which intersects the Hollywood Freeway approximately 0.25 mile to the east. Local access is provided by a series of residential collectors, including Chandler Boulevard to the north and Colfax Avenue to the east. In addition, two Metro Orange Line stops are in the vicinity of the school: the first is approximately 0.4 mile west of the Colfax/Chandler intersection, and the second approximately 0.6 mile east of the Colfax/Chandler intersection at the North Hollywood Transit Center. Entry to the campus is provided from Magnolia Boulevard and Colfax Avenue, on the southern and eastern sides of the campus, respectively.

3.3 Campus Setting

The campus contains 57 buildings, consisting of 25 permanent buildings and 32 portables, providing a combined 108 classrooms with capacity to accommodate 2,700 students. **Figure 3.3-1** shows a site plan of the existing facilities.

The main permanent buildings on campus, built in the late 1920s, include one administration and classroom building, two general and specialty classroom buildings, one auditorium, one library, one cafeteria, two gymnasiums, and three shop and mechanic buildings located in the southern part of the campus. During the expansions in the mid-1950s and late-1990s, numerous portable classroom buildings were installed in the western part of the campus.[5] The campus also includes an

3 LAUSD. 2015. Program EIR for the School Upgrade Program. Available at: http://achieve.lausd.net/ceqa.
4 LAUSD, July 16, 2010. North Hollywood High School: Campus Pre-Planning Survey.
5 LAUSD, July 16, 2010. North Hollywood High School: Campus Pre-Planning Survey.

instrumental music classroom; an auto shop; a wood shop; and an agriculture program with botanical gardens, a greenhouse, a lath house, and animal shelters. The northern part of the campus is mostly occupied by sports and athletic fields, including a football stadium and a baseball field. Surface parking lots are located in the western part of the campus. The campus is linked by a system of exterior corridors, walkways and arcades (see **Figure 3.3-1**). In addition to being an educational institution, the school is open on weekends as a community recreational facility.[6] In addition, the North Hollywood Polytechnic Community Adult School and Amelia Earhart Continuation School are located adjacent to the northeast corner of the campus.

4 Arborgate Consulting, Inc. July 6, 2016. Tree Management & Preservation Study, p. 1.

Figure 3.2-1
REGIONAL LOCATION OF PROJECT

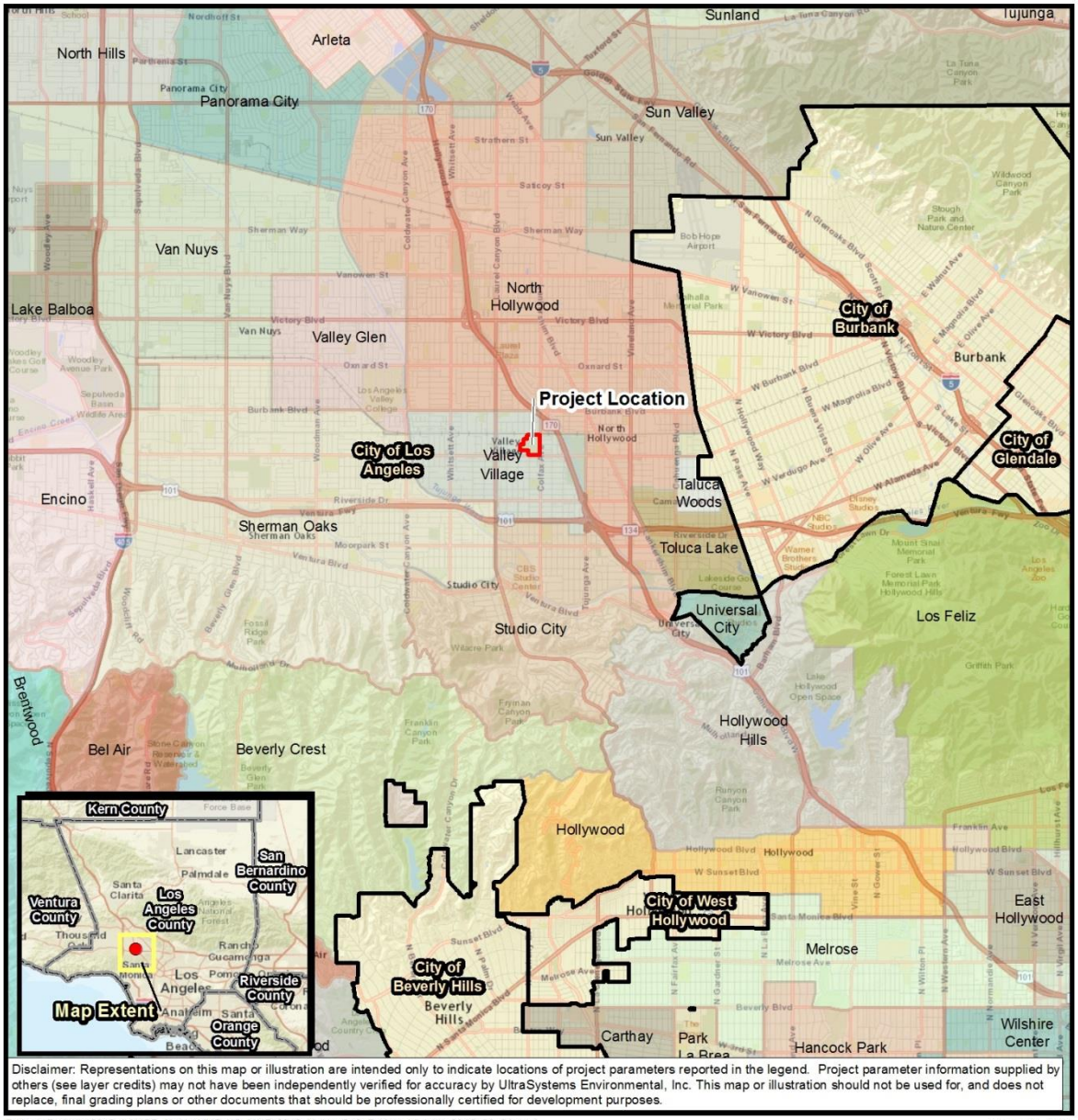

Figure 3.2-2
PROJECT VICINITY



Figure 3.3-1
SITE PLAN



Proposed Scope of Work

- **New building(s) to be constructed consisting of:**
  - Classrooms
    - General
    - Science
    - Specialty
  - Gymnasium
  - Field bleachers
- **Site upgrades**
  - Site infrastructure
  - Vehicular circulation
  - Track and field
  - Baseball and Softball
  - P.E. courts & tennis
  - Landscape & hardscape
  - Accessibility
  - Exterior paint

Disclaimer: Illustration provided by LAUSD FSD, who has indicated that the information is true and correct. No other warranties are expressed or implied

Source: LAUSD FSD. Community Meeting Presentation. December 1, 2015

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Venice High School
Comprehensive Modernization Project
Site Plan

3.4 Description of Proposed Project

3.4.1 Purpose and Objectives

The purpose of the North Hollywood High School Comprehensive Modernization Project (Project) is to provide facilities that are safe, secure, and aligned with the instructional program of North Hollywood High School. The Project is designed to address the most critical physical concerns of the buildings and grounds at the campus while providing renovations, modernizations, and reconfigurations that are consistent with the project definition for North Hollywood High School.[7]

On April 12, 2016, the Board approved the project definition for North Hollywood High School (project site or campus). This approval authorized LAUSD's Facilities Services Division to proceed with project design and the completion of related technical and regulatory processes including those required under the California Environmental Quality Act (CEQA).

3.4.2 Planned Improvements

The major project components include (1) demolition of various buildings, (2) construction of new buildings and structures, (3) upgrades to facilities throughout the campus, and (4) improvements to comply with federal, state and local facilities requirements**.**

Currently, the North Hollywood High School campus has approximately 280,364 square feet of building floor space. Following implementation of the proposed project the campus would have approximately 369,697 square feet, constituting 89,333 square feet more building floor space than now.[8] At Project completion, 94 classrooms would be provided on campus. The Project would include removal of 61 classrooms and construction of 57 new classrooms on campus. Two existing classrooms would be retained and 35 existing classrooms would be remodeled.[9] The proposed modernization project would not change the current capacity of the school or affect student enrollment. No changes to traditional school operations, school-related events, or community use would occur as a result of the Project.

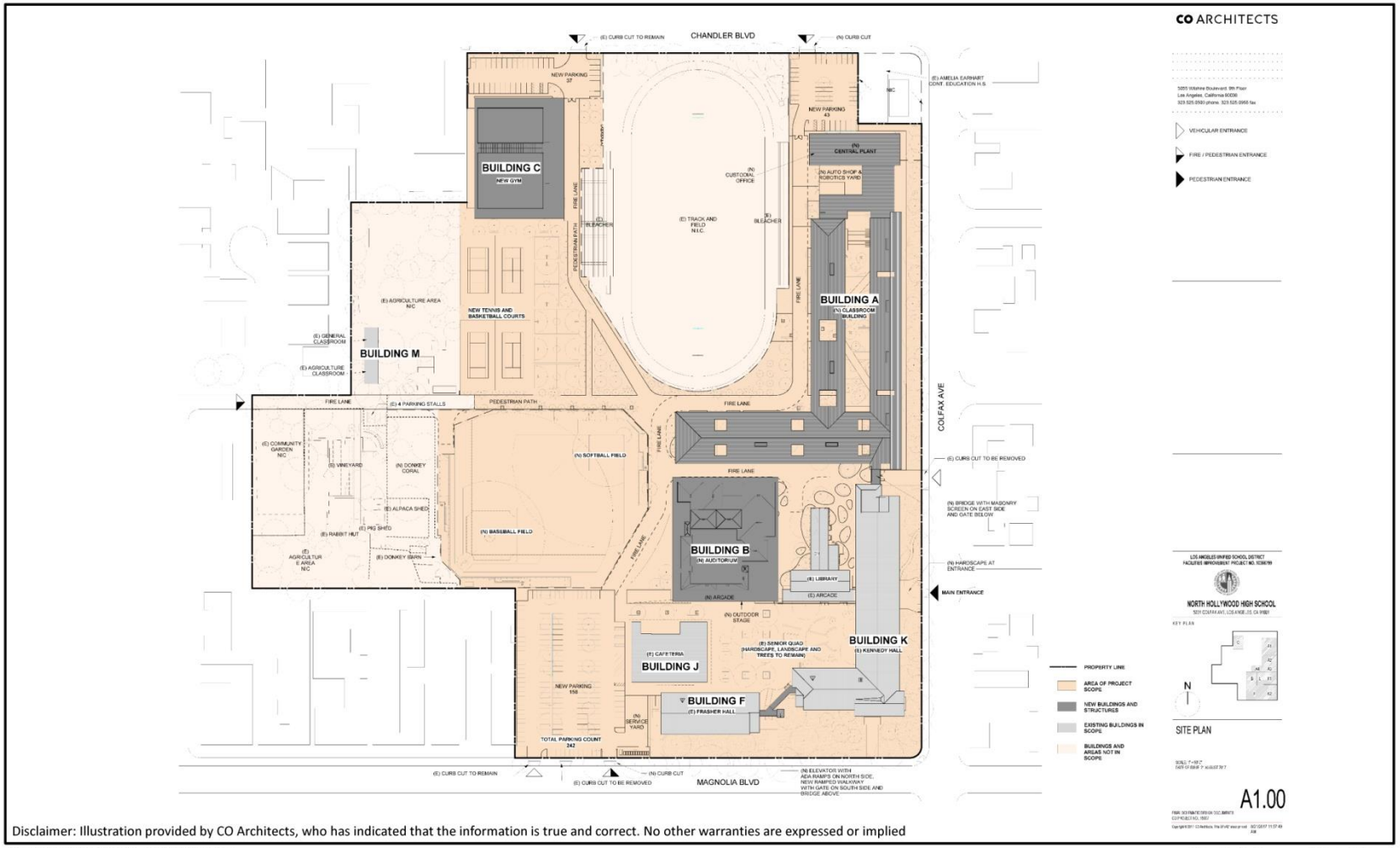
Table 3.4-1 summarizes the planned improvements to the campus. Each activity is described in greater detail following the table. **Figure 3.4-1** includes a conceptual site plan that shows changes to the campus proposed as part of the Project.

7 LAUSD, Board of Education. Board of Education Report. Report No. 246-15/16. February 9, 2016.
8 LAUSD. North Hollywood High School Comprehensive Modernization Project: Revised Space Program. May 31, 2017.
9 Ibid.

Table 3.4-1
SUMMARY OF PLANNED IMPROVEMENTS

Physical Asset	Activity	Number of Buildings	Square Feet
Student Store	Demolition	1	806
Classroom Building (Randolph Hall)	Demolition	1	30,672
Auditorium	Demolition	1	23,973
Wood Shop Building	Demolition	1	9,017
Shop Building	Demolition	1	9,294
Auto Shop	Demolition	1	5,084
Storage Unit 2	Demolition	1	360
Girls Physical Education Building	Demolition	1	5,846
Candy Store	Demolition	1	504
Instrumental Music Classroom	Demolition	1	2,249
Storage Unit 4	Demolition	1	134
Gymnasium	Demolition	1	27,174
Classrooms, Utility and Storage Facilities (Relocatable and Modular Portable Buildings)	Demolition	23	29,144
Classroom Building	New construction	1	134,262
Auditorium	New construction	1	44,895
Physical Education/Athletics (Gym)	New construction	1	54,433
Classroom and Administration building (Kennedy Hall)	Modernization (Seismic Retrofit)	1	67,251
Classroom building (Frasher Hall)	Modernization (Seismic Retrofit)	1	20,495
Library/Media Center	Modernization (Seismic Retrofit)	1	9,360
Baseball and Softball Fields	Relocation	N/A	N/A
Site-wide Infrastructure	Upgrade sanitary sewer, water, and electrical utilities.	N/A	N/A
Site-wide Infrastructure	Remove identified and prioritized barriers to program accessibility.	N/A	N/A
Site-wide Infrastructure	Upgrade landscape, hardscape, paint exteriors.	N/A	N/A
Site-wide	Upgrades for regulatory compliance.	N/A	N/A
TOTAL		**144,257 sf Demolished 233,590 sf Constructed**	

Figure 3.4-1
PROPOSED CAMPUS IMPROVEMENTS



Disclaimer: Illustration provided by CO Architects, who has indicated that the information is true and correct. No other warranties are expressed or implied

Source: CO Architects, August 21, 2017.

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North Hollywood High School Comprehensive Modernization Project

Site Plan

3.4.2.1 Demolition

The Project would include demolition and removal of 12 buildings totaling 115,113 square feet of floor space and 23 portables containing 29,144 square feet of classrooms and support spaces.

Facilities to be demolished and removed include the following:[10]

- Student Store (Building ID-4)
- Social Arts and Classroom (Building ID-5)
- Auditorium (Building ID-7)
- Shop and Mechanics (Building ID-8)
- Shop Building (Building ID-9)
- Auto Shop (Building ID-10)
- Storage Unit 2 (Building ID-14)
- Girls Physical Education (Building ID-16)
- Candy Store (Building ID-17)
- Instrumental Music Classroom (Building ID-21)
- Storage Unit 4 (Building ID-27)
- Gymnasium (Building ID-29)
- Approximately 23 classrooms, and utility and storage spaces in relocatable and modular portable Buildings (Building IDs 11, 12, 13, 15, 18, 19, 28, 51, 52, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, and 72).

3.4.2.2 New Construction

The following structures would be built to current code requirements and LAUSD design standards:

- **Classroom Building:** A two to three story building including 134,262 square feet and 53 classrooms. The new Classroom building would be located on the site of existing fields and the Girls Physical Education building (Building ID-16).
- **Auditorium:** A one story building comprising 44,895 square feet including four classrooms, and support and specialty spaces. The new Auditorium building would be located on the sites of the existing Auditorium (Building ID-7), Shop and Mechanics building (Building ID-8), Shop building (Building ID-9), and Auto Shop building (Building ID-10).

10 Detailed information for activities and structures associated with different Building IDs and their existing location on campus is provided in Table 3.3-1 and Figure 3.3-1.

- **Gymnasium:** A one story Gymnasium/Physical Education building comprising 54,433 square feet including competition and practice gymnasium floors, locker rooms (restrooms, showers, and dressing area), coaches' offices, and physical education support spaces along with support spaces for storage of pool sports equipment and mechanical equipment. The new Gymnasium building would be constructed on the site of existing athletic courts.

The architectural style of the new Administrative/Classroom building and new Auditorium building would have elements of the "Mediterranean Revival style" that would complement the original architecture of the campus.

To accommodate the new buildings, existing baseball and softball fields would be relocated to the west of the new Auditorium building in the western portion of the campus. The new fields would have overlapping outfields. The athletic courts would be relocated to the location of the existing Gymnasium.

3.4.2.3 Modernization and Renovation

The Project would include modernization and/or upgrades to the following facilities

- Classroom and Administration Building (Kennedy Hall, Building ID-1): seismic retrofit.
- Classroom Building (Frasher Hall, Building ID-2): seismic retrofit.
- Library and Media Center (Building ID-6): seismic retrofit.

3.4.2.4 Infrastructure Upgrades

The Project would also include the following site-wide upgrades

- Upgrades to site-wide infrastructure, including sanitary sewer, water, and electrical utilities.
- Various site-wide upgrades to remove identified and prioritized barriers to program accessibility per the Americans with Disabilities Act (42 U.S. Code Chapter 126).
- Landscape, hardscape, and exterior paint.

3.4.2.5 Updates for Regulatory Compliance

The Project includes various actions to ensure that North Hollywood High School complies with various federal, State and local statutory and regulatory requirements. These include improvements required by the: Americans with Disabilities Act (42 U.S. Code Chapter 126), California Department of General Services, Division of the State Architect, Office of the Independent Monitor, and Standard Conditions of Approval (SC) of the Programmatic Environmental Impact Report (PEIR).[11]

3.4.2.6 Access, Circulation, and Parking

The Project would create 50 new parking spaces, increasing the number of parking spaces on the campus from 192 spaces to 242 spaces. 37 parking spaces would be provided in a new parking lot to

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

be located north of the new Gymnasium building; 43 parking spaces would be provided in a new parking lot, north of the new Administration/Classroom building in the northeast portion of the campus. The Project would create 50 new parking spaces, increasing the number of parking spaces on the campus from 192 spaces to 242 spaces. Thirty-seven parking spaces would be provided in a new parking lot to be located north of the new Gymnasium building; 43 parking spaces would be provided in a new parking lot, north of the new Administration/Classroom building in the northeast portion of the campus; four parking spaces would be provided in the parking area south of the agricultural areas and; the existing parking lot west of Frasher Hall (Classroom Building ID-2) would be expanded to provide 158 parking spaces.

At project completion, campus access, traffic circulation, and drop-off and pick-up locations would remain the same as for the existing campus. Proposed improvements to vehicular access and parking would be designed to comply with Section 2.3, Vehicular Access and Parking of the School Design Guide 2016.[12] The School Design Guide contains general parking guidelines as well as guidelines relating to vehicular access and pedestrian safety, and security. Off-site improvements would include construction activities on the sidewalks located immediately adjacent to the campus for the repair, creation, extension, or modification of driveways, a possible curb extension, and existing sidewalks.

The proposed project would be implemented on an existing school campus, and in accordance with LAUSD Standards. Project operation after completion of the modernization construction would not generate additional vehicular trips. Existing travel routes to North Hollywood High School would not be altered as a result of the proposed project. Therefore, the project would not create an unsafe route to school, and there would be no impacts to students walking from local neighborhoods (see **Section 4.13** Pedestrian Safety).

3.4.3 Landscaping

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

3.4.4 Site Security and Safety

Currently, the North Hollywood High School campus is secured mainly by fencing along the boundaries. Following Project implementation, the campus would remain secured with the majority of the campus being fenced or gated. The Project may install additional fences surrounding new parking lots. Additionally, security lighting would be installed throughout the campus to address safety concerns. Security lighting would include lighting fixtures designed to reduce glare, light trespass, and sky glow.

3.4.5 Sustainability Features

The Project's new buildings and structures would be designed to reduce energy use below current levels by incorporating modernized and energy-efficient features, which may include lighting, windows, electrical transformers, building insulation, or installation of irrigation smart controllers, etc. All new construction would exceed by 10 percent or more, the California Title 24, Part 6 energy

12 http://www.laschools.org/new-site/asset-management/school-design-guide

efficiency standards and be consistent with LAUSD Standard Conditions of Approval (including but not limited to **SC-GHG-5**).

3.4.6 Construction Characteristics and Schedule

The Project would be executed through a design-build contract. Pre-construction and design activities began in the second quarter of 2015 and are anticipated to be completed in the second quarter of 2019 (including DSA review). Construction activities are assumed to begin in early September of 2019 and be completed near the end of November 2022. A 54-month construction schedule is being actively considered. However, the District asked that an accelerated, 39-month schedule be analyzed to estimate "worst-case" impacts, chiefly in the areas of air quality and noise during construction.[13]

Construction would entail (1) demolition of up to approximately 144,257 square feet (approximately 115,113 square feet of existing buildings and structures and approximately 29,144 square feet of existing portables), and (2) construction of approximately 233,590 square feet of new buildings and structures.

Demolition activities would be managed and conducted by the District's Facilities Environmental Technical Unit (FETU) in accordance with the District's standard practices. FETU would be responsible for ensuring the safe removal of potential asbestos containing materials and lead that may be encountered during construction. LAUSD would ensure that all construction-related activities are completed in accordance with applicable federal, state, and local regulations, including but not limited to the EPA Guidance on Conducting Non-Time-Critical Removal Actions Under Comprehensive Environmental Response, Compensation, and Liability Act, National Oil and Hazardous Substances Pollution Contingency Plan, and all applicable LAUSD specifications, and standards. Construction would also comply with the applicable **SCs**, which include, but are not limited to, **SC-USS-1**, which requires that any construction waste will be recycled to the maximum extent feasible.[14]

Any activity that involves cutting, grinding, or drilling during building renovation or demolition, or that involves relocation of underground utilities, could release friable asbestos fibers unless proper precautions are taken. The federal Clean Air Act regulates asbestos as a hazardous air pollutant; the South Coast Air Quality Management District (SCAQMD) locally implements the federal regulation through its Rule 1403. The federal Occupational Safety and Health Administration (OSHA) also regulates asbestos as a potential worker safety hazard. The Asbestos-Containing Materials in Schools rule (Code of Federal Regulations [CFR] Title 40, Part 763, Subpart E), promulgated under the federal Asbestos Hazard Emergency Response Act (AHERA), requires local education agencies to inspect their school buildings for asbestos-containing building material, prepare asbestos management plans, and perform asbestos response actions to prevent or reduce asbestos hazards. AHERA also tasked the U.S. Environmental Protection Agency (EPA) with developing a model plan for states for accrediting persons conducting asbestos inspection and corrective-action activities at schools.

Additionally, soil removal activities would be completed in compliance with a Removal Action Workplan (RAW) that would be prepared for the proposed project. The Project RAW would be consistent with the criteria specified in the California Health and Safety Code (H&SC) § 25356.1(h)

13 Personal communication from Will Meade, Los Angeles Unified School District, Los Angeles, CA to Michael Rogozen, UltraSystems Environmental Inc., Irvine CA. October 5, 2017.

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

and include a description of the onsite impact, a plan for conducting the removal action, and the goals to be achieved by the removal action, as required by H&SC § 25323.1.

LAUSD's construction contractor would prepare and comply with a Storm Water Pollution Prevention Plan (SWPPP), which includes best management practices (BMPs) for erosion and sediment control. LAUSD standard practices require that all projects require collection of stormwater runoff, compliance with applicable NPDES stormwater permit requirements, restricting sediment flows into storm drainage systems, and compliance with the District's Stormwater Technical Manual (2009). The proposed project would also comply with all of the applicable federal, state, and local rules and regulations as well as with the following LAUSD Construction BMPs (which are consistent with **SC-AQ-2** and **SC-N-5** through **SC-N-9**), in carrying out construction of the proposed project.

- Construction contractors shall keep properly functioning mufflers on all internal combustion and vehicle engines used in construction. To the extent feasible, the construction contractor shall store and maintain equipment, including portable equipment, as far away as possible from sensitive noise receptors. Temporary barriers capable of reducing temporary construction related noise shall be installed when construction equipment or activities are anticipated to exceed 75 dBA at 50 feet from the nearest sensitive receptor,

- Construction contractors shall provide advance notice of the start of construction to the school administration and to all noise-sensitive receptors (immediately surrounding noise-sensitive residences) adjacent to the school, including specifically where and when construction activities would occur and provide contact information for filing noise complaints.

To the extent feasible, construction-related activities would be scheduled to occur during daylight hours. Construction-related traffic and deliveries would be scheduled to avoid student pick-up, drop-off hours, and during noise sensitive times, as coordinated with the school administration. Should evening work be required, **SC-BIO-2**,[15] which requires the use of shields or light redirecting/minimizing efforts, would be implemented to protect sensitive species from light. Consistent with the City of Los Angeles Municipal Code, all non-emergency construction activities would occur between 7:00 a.m. and 9:00 p.m., Monday through Friday and 8:00 a.m. to 6:00 p.m. on Saturdays and national holidays.[16] Construction would be prohibited on Sundays.[17]

At a minimum, it is conservatively anticipated that the demolition, construction, and modernization activities would be completed in approximately 39 months. Due to active school operation during the construction phase, less than five acres (contiguous) on campus would be disturbed at any one time. To complete the campus-wide modernization while school is in session, the construction process would be broken into three major phases and 17 sub-phases, as summarized in **Tables 3.4-2** through **3.4-4**.

15 LAUSD OEHS, "School Upgrade Program Final Environmental Impact Report," http://achieve.lausd.net/ceqa, Adopted by the Board of Education on November 10, 2015.
16 City of Los Angeles Municipal Code § 41.40(b).
17 City of Los Angeles Municipal Code § 41.40(b).

Table 3.4-2
CONSTRUCTION EQUIPMENT ASSUMPTIONS PHASE 1

Phase	Equipment Type	Pieces	HP	Load Factor	Hours/ Day
Demolition	Excavators	1	81	0.73	8
	Tractors/Loaders/Backhoes	1	225	0.4	6
	Crushing/Processing Equipment	1	97	0.37	6
	Off-Highway Trucks	1	402	0.4	8
	Skid Steer Loaders	2	65	0.37	8
	Air Compressors	1	78	0.48	8
Site Preparation	Excavators	1	174	0.4	8
	Plate Compactors	1	97	0.37	8
	Tractors/Loaders/Backhoes	1	97	0.37	8
	Skid Steer Loaders	1	65	0.37	8
	Off-Highway Trucks	1	402	0.4	8
	Trenchers	1	78	0.5	8
	Rollers	1	80	0.38	8
Grading	Graders	1	158	0.38	8
	Plate Compactors	1	187	0.41	8
	Rollers	2	247	0.4	8
	Off-Highway Trucks	1	97	0.37	8
	Rubber Tired Dozers	1	247	0.4	8
Building Construction	Cranes	1	231	0.29	7
	Forklifts	3	89	0.2	8
	Generator Sets	1	84	0.74	8
	Tractors/Loaders/Backhoes	3	97	0.37	7
	Welders	1	46	0.45	8
Architectural Coating	Air Compressors	1	78	0.48	6
Paving	Cement and Mortar Mixers	2	9	0.56	6
	Pavers	1	130	0.42	8
	Paving Equipment	2	132	0.36	6
	Rollers	2	80	0.38	6
	Tractors/Loaders/Backhoes	3	97	0.37	8

Table 3.4-3
CONSTRUCTION EQUIPMENT ASSUMPTIONS PHASE 2

Phase	Equipment Type	Pieces	HP	Load Factor	Hours/ Day
Demolition	Excavators	1	158	0.38	8
	Tractors/Loaders/Backhoes	1	97	0.36	6
	Crushing/Processing Equipment	1	85	0.78	6
	Off-Highway Trucks	1	402	0.38	8
	Skid Steer Loaders	1	65	0.37	8
	Air Compressors	1	78	0.48	8
Renovation	Cranes	1	231	0.29	7
	Forklifts	3	89	0.2	8
	Generator Sets	1	84	0.74	8

Phase	Equipment Type	Pieces	HP	Load Factor	Hours/ Day
	Tractors/Loaders/Backhoes	3	97	0.37	7
	Welders	1	46	0.45	8
Building Construction	Cranes	1	231	0.29	7
	Forklifts	3	89	0.2	8
	Generator Sets	1	84	0.74	8
	Tractors/Loaders/Backhoes	3	97	0.37	7
	Welders	1	46	0.45	8
Architectural Coating	Air Compressors	1	78	0.48	6
Asphalt Paving	Excavators	1	158	0.38	6
	Pavers	2	130	0.42	8
	Paving Equipment	1	132	0.36	6
	Rollers	2	80	0.38	6
	Rubber Tired Dozers	2	247	0.4	8
	Tractors/Loaders/Backhoes	2	97	0.37	8

Table 3.4-4
CONSTRUCTION EQUIPMENT ASSUMPTIONS PHASE 3

Phase	Equipment Type	Pieces	HP	Load Factor	Hours/ Day
Demolition	Excavators	1	158	0.38	8
	Tractors/Loaders/Backhoes	1	247	0.4	6
	Crushing/Processing Equipment	1	81	0.73	6
	Off-Highway Trucks	1	402	0.4	8
	Skid Steer Loaders	2	65	0.37	8
	Air Compressors	1	78	0.48	8
Site Preparation	Excavators	1	174	0.4	8
	Plate Compactors	1	97	0.37	8
	Tractors/Loaders/Backhoes	1	97	0.37	8
	Skid Steer Loaders	1	65	0.37	8
	Off-Highway Trucks	1	402	0.4	8
	Trenchers	1	78	0.5	8
	Rollers	1	80	0.38	8
Grading	Excavators	1	158	0.38	8
	Graders	1	187	0.41	8
	Plate Compactors	1	8	0.43	8
	Tractors/Loaders/Backhoes	1	97	0.37	8
	Rollers	1	80	0.38	8
	Off-Highway Trucks	1	402	0.38	8
	Rubber Tired Dozers	1	247	0.4	8
Building Construction	Cranes	1	231	0.29	7
	Forklifts	3	89	0.2	8
	Generator Sets	1	84	0.74	8
	Tractors/Loaders/Backhoes	3	97	0.37	7
	Welders	1	46	0.45	8
Asphalt Paving	Pavers	1	130	0.42	8
	Paving Equipment	2	132	0.36	6

Phase	Equipment Type	Pieces	HP	Load Factor	Hours/ Day
	Rollers	2	80	0.38	6
	Rubber Tired Dozers	1	247	0.4	8
Concrete Paving	Excavators	1	158	0.38	8
	Pavers	1	130	0.42	8
	Rollers	1	80	0.38	8
	Cement and Mortar Mixers	1	9	0.56	8
	Tractors/Loaders/Backhoes	3	97	0.37	8

3.5 Existing Noise Environment

The predominant source of noise in the area of North Hollywood High School is motor vehicle traffic. The Hollywood Freeway (SAR-170) is 940 feet east of the project site. Colfax Avenue, which is classified as an "Avenue II" outlines the eastern border of the project site. The northern side of the project site is outlined by Chandler Boulevard, which is classified as a "Boulevard II." Magnolia Boulevard, which is classified as an "Avenue II," outlines the southern border of the project site. The following roadway segments have an average daily traffic (ADT) count as follows:

- Magnolia Boulevard, from Radford Avenue to Morella Avenue: 22,900 ADT
- Colfax Avenue, from McCormick Street to Chandler Boulevard: 15,000 ADT

Results of UltraSystems' ambient noise measurements in the project area are presented in **Section 3.7**.

3.6 Sensitive Land Uses

The Noise Element of the City of Los Angeles General Plan deems the following land uses "noise sensitive:[18]

- Single-family and multi-unit dwellings.
- Long-term care facilities (including convalescent and retirement facilities).
- Dormitories, motels, hotels, transient lodgings and other residential uses.
- Houses of worship.
- Hospitals.
- Libraries.
- Schools.
- Auditoriums; concert halls; outdoor theaters.
- Nature and wildlife preserves.
- Parks.

Table 3.6-1 shows the distances to the nearest land uses normally considered to be noise-sensitive. Sensitive receivers within 0.25 mile of North Hollywood High School are shown in **Figure 3.6-1**.

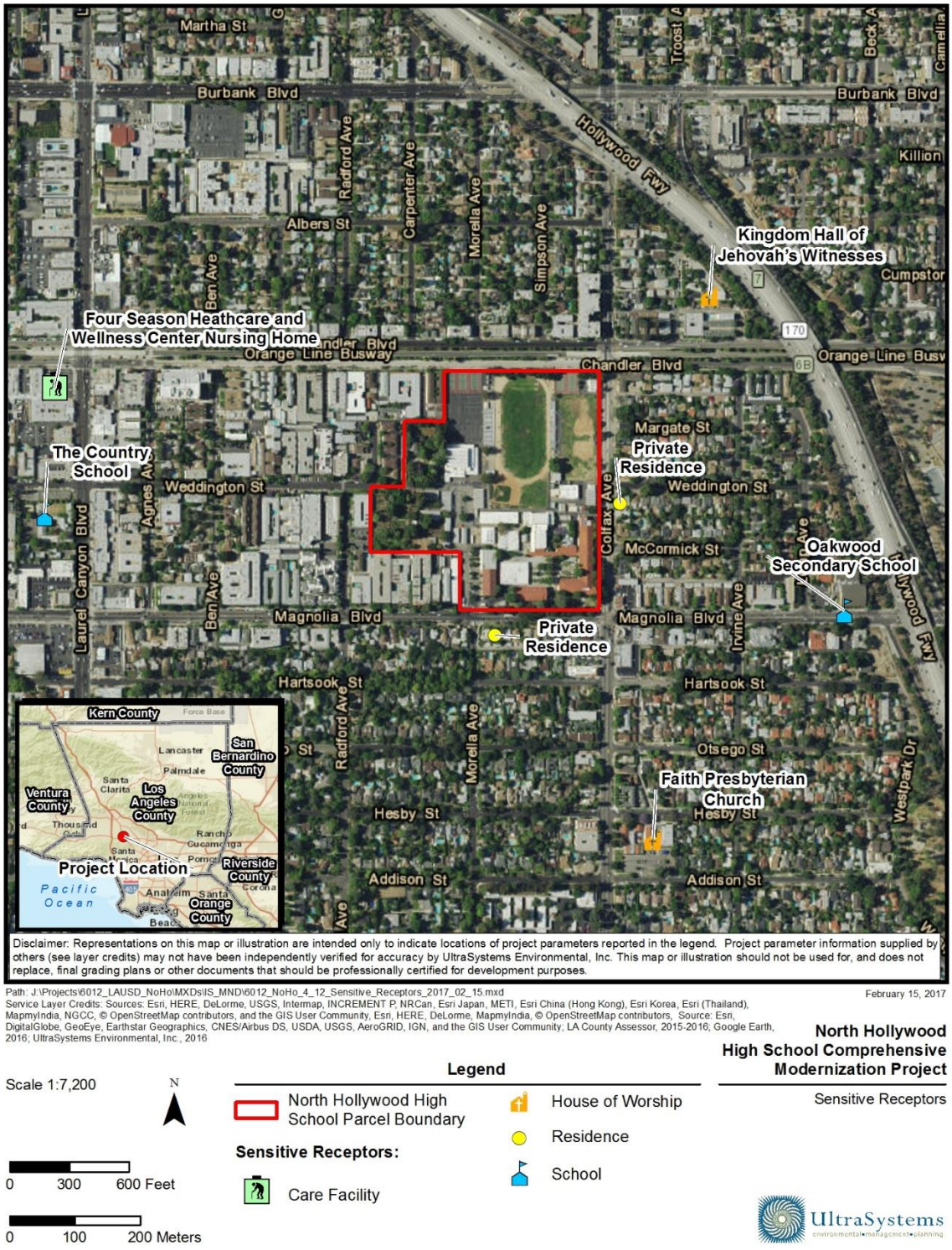
Table 3.6-1
NEAREST EXISTING SENSITIVE RECEIVERS

	Sensitive Receiver Name	Location	Distance from Proposed Project (Feet)
1	Private Residence	5252 Colfax Avenue North Hollywood, CA 91601 Latitude: 34.166477 Longitude: -118.387552	123

18 Noise Element of the Los Angeles City General Plan. City of Los Angeles, Department of City Planning, Los Angeles, California. Adopted February 3, 1998. P.3-1. http://planning.lacity.org/cwd/gnlpln/noiseElt.pdf. Accessed December 16, 2016.

	Sensitive Receiver Name	Location	Distance from Proposed Project (Feet)
2	Private Residence	11752 W. Magnolia Blvd. North Hollywood, CA 91601 Latitude: 34.164652 Longitude: -118.389627	154
3	Kingdom Hall of Jehovah's Witnesses	5440 Troost Avenue North Hollywood, CA 91601 Latitude: 34.169356 Longitude: -118.386072	627
4	Oakwood Secondary School	11600 W. Magnolia Blvd. North Hollywood, CA 91601 Latitude: 34.165007 Longitude: -118.383818	935
5	Faith Presbyterian Church	5000 Colfax Avenue North Hollywood, CA 91601 Latitude: 34.161825 Longitude: -118.386983	1,121
6	Four Seasons Healthcare and Wellness Center Nursing Home	5335 Laurel Canyon Blvd. North Hollywood, CA 91601 Latitude: 34.168043 Longitude: -118.396974	1725
7	The Country School	5243 Laurel Canyon Blvd. North Hollywood, CA 91601 Latitude: 34.166309 Longitude: -118.397134	1728

Figure 3.6-1
NEAREST SENSITIVE RECEIVERS



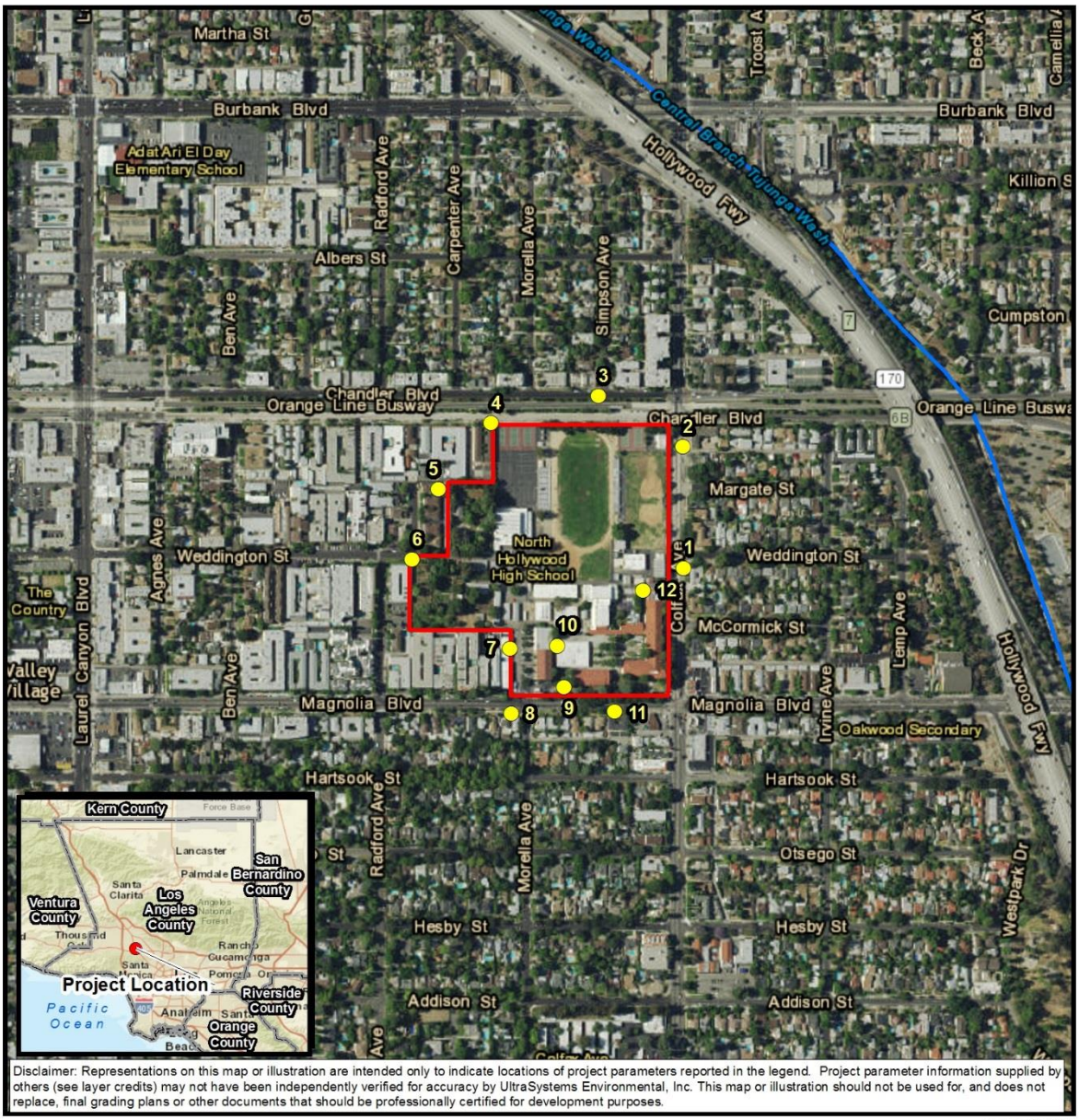
3.7 Ambient Noise Monitoring

On Wednesday, October 21, 2016, UltraSystems conducted ambient noise sampling at 12 locations on campus and in the general project area; these are shown in **Figure 3.7-1**. **Table 3.7-1** lists the measurement points, sampling date and times, and why the sites were chosen.

Table 3.7-1
CHARACTERISTICS OF AMBIENT NOISE MEASUREMENT LOCATIONS

Point	Sampling Location	Time Interval	Purpose of Selection
1	11684 Weddington Street (Residential Area)	0750-0805	Nearest residential area east of the project site
2	5354 Colfax Avenue (Residential Area)	0810-0825	Nearest residential area northeast of the project site
3	11715-11729 Chandler Blvd. (Residential Area)	0835-0850	Nearest residential area north of the project site
4	11820 Chandler Blvd. (Residential Area)	0904-0919	Nearest residential area northwest of the project site
5	5326 Radford Avenue (Residential Area)	0923-0938	Nearest residential area west of the project site
6	5304 ½ Radford Avenue (Residential Area)	0958-1013	Nearest residential area west of the project site
7	11809 Magnolia Blvd (Residential Area)	1032-1047	Nearest residential area southwest of the project site
8	11802 Magnolia Blvd. (Residential Area)	1051-1106	Nearest residential area south of the project site
9	Near Classroom and Portable (On Campus)	1115-1130	Additional building near to construction
10	Classroom/Cafe (On Campus)	1210-1225	Additional building near to construction
11	11720 Magnolia Blvd.	1230-1245	Nearest residential area south of the project site
12	Between Admin and Portables (On Campus)	1251-1306	Nearest building to future construction

Figure 3.7-1
AMBIENT NOISE MEASUREMENT LOCATIONS



Disclaimer: Representations on this map or illustration are intended only to indicate locations of project parameters reported in the legend. Project parameter information supplied by others (see layer credits) may not have been independently verified for accuracy by UltraSystems Environmental, Inc. This map or illustration should not be used for, and does not replace, final grading plans or other documents that should be professionally certified for development purposes.

Path: J:\Projects\6012_LAUSD_NoHo\MXDs\IS_MND\6012_NoHo_4_12_Noise_Monitoring_Locations_2016_10_21.mxd

October 21, 2016

Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community; USGS, 2007; LA County Assessor, 2015-2016; LA County, 2016; UltraSystems Environmental, Inc., 2016-2017

North Hollywood High School Comprehensive Modernization Project

Ambient Noise Measurement Locations

Scale 1:7,200

N

0 300 600 Feet

0 100 200 Meters

Legend

- North Hollywood High School Parcel Boundary
- Noise Monitoring Location
- USGS Stream

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The sampling locations were chosen to provide ambient noise data to compare with the results of construction noise estimates. (See **Section 5.1**.) A Quest SoundPro Model DL-1-1/3 ANSI Type 1 sound level meter was used in the "slow" mode at each site to obtain a 15-minute average sound level (L_{eq}), as well as other metrics. The meter's microphone was maintained five feet above the ground. The samples were taken in the morning and early afternoon on a Friday. Noise meter output records and observations during sampling are in **Attachment 1.**

Table 3.7-2 shows the results of the ambient noise sampling. Ambient noise levels for the 12 sampling points averaged 67.75 dBA L_{eq}. L_{90} values averaged 56.81 dBA.

Table 3.7-2
MEASURED AMBIENT NOISE LEVELS

Point	Measurement Results (dBA)		
	15-Minute Leq	L_{max}	L_{90}
1	65.7	75.5	60.5
2	71.2	92.7	60.4
3	75.1	101.4	55.2
4	65.4	76.2	54.7
5	53.3	69.1	46.4
6	55.0	72.4	43.5
7	61.7	81.1	49.2
8	67.8	80.7	56.8
9	59.3	75.1	54.6
10	65.9	84.5	60.3
11	67.2	78.6	85.5
12	58.5	73.4	53.3

Average ambient noise levels (L_{eq}) ranged from 53.3 to 75.1 dBA. The highest average noise levels were at measurement point 3, which is near the heavily traveled, six-lane Chandler Boulevard. For most of the ambient monitoring locations, the difference between the L_{eq} and L_{90} values ranged from 4.7 to 19.9 dBA. Since the L_{90} is a measure of general "background" noise, it is likely that Chandler Boulevard is an important noise contributor on the northern side of the project area. The three ambient monitoring locations on campus yielded the lowest difference between the L_{eq} and L_{90} values. This implies a lack of loud sustained noise sources on the campus.

4.0 APPLICABLE REGULATIONS

Section 5.12 of the PEIR describes in considerable detail the laws, regulations and policies of the federal government, the State of California, and the City of Los Angeles[19] that are intended to reduce people's exposure to noise. The reader is referred to that discussion. For convenience in interpreting the findings of this technical study, we repeat those regulations that are directly relevant to the North Hollywood School Comprehensive Modernization Project.

4.1 Federal

Because North Hollywood School is surrounded on four sides primarily by residences that could be affected by construction noise from the project, the U.S. Department of Housing and Urban Development's goal of 45 dBA L_{dn} as a desirable maximum interior standard for residential units developed under HUD funding (HUD 1985) is pertinent. While HUD does not specify acceptable exterior noise levels, standard construction of residential dwellings constructed under Title 24 of the California Code of Regulations typically provides 20 dBA of acoustical attenuation with the windows closed and 10 dBA with the windows open. Based on this assumption, the exterior L_{dn} or CNEL should not exceed 65 dBA under normal conditions.

4.2 State of California

The California Department of Health Services (DHS) Office of Noise Control has studied the correlation of noise levels with effects on various land uses. (The Office of Noise Control no longer exists.) The most current guidelines prepared by the state noise officer are contained in the "General Plan Guidelines" issued by the Governor's Office of Planning and Research in 2003 (OPR 2003). These guidelines establish four categories for judging the severity of noise intrusion on specified land uses:

- **Normally Acceptable**: Is generally acceptable, with no mitigation necessary.
- **Conditionally Acceptable**: May require some mitigation, as established through a noise study.
- **Normally Unacceptable**: Requires substantial mitigation.
- **Clearly unacceptable**: Probably cannot be mitigated to a less-than-significant level.

The types of land uses addressed by the state standards, and the acceptable noise categories for each are presented in **Table 4.2-1** (Land Use Compatibility for Community Noise Sources). There is some overlap between categories, which indicates that some judgment is required in determining the applicability of the numbers in every situation.

19 Because North Hollywood High School and the immediately surrounding area are within the City of Los Angeles, the City's regulations take precedence over those of the County of Los Angeles, which apply to unincorporated areas.

Table 4.2-1
LAND USE COMPATIBILITY FOR COMMUNITY NOISE SOURCES

Land Use Category	Noise Exposure (dBA, CNEL)						
	55	60	65	70	75	80	
Residential – Low-Density Single-Family, Duplex, Mobile Homes							
Residential – Multiple Family							
Transient Lodging – Motel, Hotels							
Schools, Libraries, Churches, Hospitals, Nursing Homes							
Auditoriums, Concert Halls, Amphitheaters							
Sports Arena, Outdoor Spectator Sports							
Playgrounds, Neighborhood Parks							
Golf Courses, Riding Stables, Water Recreation, Cemeteries							

Land Use Category	Noise Exposure (dBA, CNEL)					
	55	60	65	70	75	80
Office Buildings, Business Commercial and Professional						
Industrial, Manufacturing, Utilities, Agriculture						

Normally Acceptable: Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements.

Conditionally Acceptable: New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply system or air conditioning will normally suffice.

Normally Unacceptable: New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.

Clearly Unacceptable: New construction or development should generally not be undertaken.

Source: State of California, 2003.

4.3 City of Los Angeles

The Noise Element of the City of Los Angeles' General Plan uses a scheme similar to that of **Table 4.2-1** to classify the acceptability of different long-term noise levels for sensitive land uses.[20] For the single-family houses immediately surrounding North Hollywood School, 24-hour averages below 55 dBA CNEL are normally acceptable, and levels between 55 and 70 dBA CNEL are conditionally acceptable. For multifamily housing, 24-hour averages below 60 dBA CNEL are normally acceptable, and levels between 60 and 70 dBA CNEL are conditionally acceptable.

As described in the PEIR, the City of Los Angeles Municipal Code has short-term noise exposure standards for various types of sources, but none appears to be relevant to this analysis. Section 41.40(a) of the Municipal Code restricts construction operations to 7:00 a.m. to 9:00 p.m., Monday through Friday, 8:00 a.m. to 6 p.m. on Saturdays and national holidays. Construction is prohibited on Sundays. Variances for construction during normally prohibited hours may be obtained from the Executive Officer of the Los Angeles Board of Police Commissioners.[21]

Section 112.05(a) of the City of Los Angeles Municipal Code limits noise exposures from construction equipment to 75 dBA at a distance of 50 feet. Almost all common types of construction equipment

20 City of Los Angeles. Noise Element of the Los Angeles City General Plan. Exhibit I: Guidelines for Noise Compatible Land Use. Department of City Planning, Los Angeles, California. Adopted February 3, 1999. Internet URL: http://planning.lacity.org/cwd/gnlpln/noiseElt.pdf.

21 City of Los Angeles Municipal Code § 41.40(b).

exceed that limit. The Municipal Code allows exceedance of the limit upon demonstration that compliance is technically infeasible.

4.4 Thresholds of Significance for this Analysis

Two criteria were used for judging noise impacts. First, noise levels generated by the proposed project must comply with all relevant federal, state, and local standards and regulations. Noise impacts on the surrounding community are limited by local noise ordinances, which are implemented through investigations in response to nuisance complaints. It is assumed that all existing regulations for the construction and operation of the proposed project will be enforced. In addition, the proposed project should not produce noise levels that are incompatible with adjacent noise sensitive land uses.

The second measure of impact used in this analysis is a significant increase in noise levels above existing ambient noise levels as a result of the introduction of a new noise source. An increase in noise level due to a new noise source has a potential to adversely impact people. According to LAUSD guidelines,[22] the proposed project would have a significant noise impact if it would do any of the following:

- Create a maximum exterior noise level exceeding 70 dBA L_{10} or 67 dBA L_{eq}.
- Result in a maximum interior classroom noise level exceeding 55 dBA L_{10} or 45 dBA L_{eq}.
- Result in a permanent increase in noise levels at nearby sensitive land uses exceeding 3 dBA CNEL.

The following additional criteria are from the City of Los Angeles. The proposed project would have a significant noise impact if it would do any of the following:

- Generate operational noise from traffic and onsite sources that would cause the ambient noise levels at the property line of affected uses to increase by 3 dBA CNEL and noise levels reach or are within the "normally unacceptable" or "clearly unacceptable" category or increase by 5 dBA CNEL or greater.
- Generate noise from operational stationary sources that causes ambient levels to increase by more than 5 dB.
- For construction activities lasting more than one day, exceed existing exterior ambient levels by 10 dBA or more at a noise sensitive use.
- For construction activities lasting more than ten days in a three-month period, exceed existing exterior ambient levels by 5 dBA or more at a noise sensitive use.
- For construction activities between 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or at any time on Sunday, exceed the ambient level by 5 dBA at a sensitive receiver.

22 PEIR, p. 5.12-25.

5.0 PROJECT IMPACTS

Noise impacts associated with school upgrade projects include short-term and long-term impacts. Construction activities, especially heavy equipment operation, would create noise effects on and adjacent to the construction site. Long-term noise impacts include project-generated onsite and offsite operational noise sources. Onsite (stationary) noise sources would include operation of mechanical equipment such as air conditioners, landscape, building maintenance, and sports and recreational activities. Offsite noise would be attributable to project-induced traffic, which would cause an incremental increase in noise levels within and near the project vicinity.

This section also evaluates potential ground-borne vibration that would be generated from the construction or operation of the proposed project.

5.1 Short-Term Noise Impacts

As noted in **Table 1.2.1**,

- SUP implementation may result in exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance.

- SUP-related project construction activities may result in generation of excessive ground-borne vibration, primarily through the use of heavy construction equipment, pile driving, and/or rock blasting. Project-specific analysis required.

- Construction activities may result [in a] substantial temporary or periodic increase in ambient noise levels in the project vicinity. Project-specific analysis required.

Noise impacts from construction activities are a function of the noise generated by the operation of construction equipment and on-road delivery and worker commuter vehicles, the location of equipment, and the timing and duration of the noise-generating activities. For the purpose of this analysis, it was estimated that the construction of the proposed project would begin in early September 2019 and finish the end of November 2022.

Using preliminary design and scheduling information from LAUSD,[23] UltraSystems used the air pollutant emissions estimation model CalEEMod[24] to estimate the number of days to execute the following construction sub-phases within each of three major phases:

- Demolition.
- Site preparation.
- Grading.
- Building renovation.
- New building construction.
- Architectural coating.
- Asphalt paving.
- Concrete paving.

23 Email from William Meade, Los Angeles Unified School District, Los Angeles, CA to Michael Rogozen, UltraSystems Environmental, Inc., Irvine, CA. September 14, 2017.
24 BREEZE Software, 2016.

The types and numbers of pieces of equipment anticipated in each phase of construction and development were estimated using CalEEMod and UltraSystems' experience with similar projects. The CalEEMod equipment mix is based on a construction survey performed by the South Coast Air Quality Management District (SCAQMD) (California Air Pollution Control Officers Association 2016). **Table 5.1-1** lists the equipment expected to be used. For each equipment type, the table shows an average noise emission level (in dB at 50 feet, unless otherwise specified) and a "usage factor," which is an estimated percentage of operating time that the equipment would be producing noise at the stated level.[25] Equipment use was matched to phases of the construction schedule.

Table 5.1-1
CONSTRUCTION EQUIPMENT NOISE CHARACTERISTICS

Equipment Type	Horsepower	Usage Factor	Maximum Sound Level (dBA @ 50 feet)
Air Compressor (portable)	78	0.48	81
Crushing/Proc. Equipment	97	0.78	96
Crane	231	0.29	83
Excavator	158	0.4	80
Forklift	89	0.2	67
Off-Highway Trucks	402	0.4	90
Skid Steer Loaders	65	0.4	79
Generator Set	84	0.5	73
Plate Compactors	97	0.2	83
Grader	187	0.41	85
Trenchers	78	0.5	83
Paver	130	0.5	77
Paving Equipment	132	0.5	85
Roller	80	0.2	80
Rubber Tired Dozer	247	0.4	79
Cement and Mortar Mixers	9	0.4	85
Tractor/Loader/Backhoe	97	0.37	85
Welder	46	0.45	74

5.1.1 Impacts to Neighborhood Sensitive Receivers

Project phasing diagrams were reviewed to identify construction scenarios that had the highest potential for affecting neighborhood sensitive receivers, i.e., those with the greatest concentration of construction activity near the receivers. It was posited that the southern portion of the campus, which would have both major demolition and construction, met that criterion.

According to the schedule developed for the CalEEMod analysis, the project would have 15 unique combinations of construction sub-phases, all of which could reasonably be expected to occur in the aforementioned southern area of the campus. These are shown in the first column of **Table 5.1-2**. The impact analysis focused on two residential sensitive receivers in the area, which are identified as receivers 1 and 2 in **Table 3.6-1** and shown in **Figure 3.6-1**. These residences correspond approximately to ambient noise sampling points 1 and 11, respectively. (See **Table 3.7-1** and

25 Equipment noise emissions and usage factors are from Knauer, H. et al., 2006. FHWA Highway Construction Noise *Handbook.* U.S. Department of Transportation, Research and Innovative Technology, Administration, Cambridge, Massachusetts, FHWA-HEP-06-015 (August 2006), except where otherwise noted.

Figure 3.7-1.) Distances between each construction activity and each sensitive receiver were determined by GIS analysis.

Table 5.1-2 shows the maximum calculated one-hour average noise exposure (L_{eq}) at each of the nearest sensitive receivers during the entire project. The highest exposures (about 79 and 77 dBA L_{eq}) would occur during Phase 2 demolition, which would begin while Phase 1 construction is still underway. **Table 5.1-3** shows the increases in 1-hour L_{eq} noise exposure during construction. These increases in unmitigated noise exposure would normally be considered significant. However, the construction noise measures enumerated in **SC-N-9** will be able to reduce exposures to a less than significant level. Furthermore, the analysis did not take into account shielding by existing and future structures.

Finally, impacts of construction-related on-road mobile sources were evaluated. The project will generate temporary increases in traffic, comprised of worker commuting vehicles, materials delivery trucks, debris hauling trucks, and other vehicles. For offsite, on-road noise impacts to be significant, it is generally necessary for traffic to double.[26] According the project traffic analysis, daily construction traffic would represent less than one percent of the existing daily volumes.[27]

Table 5.1-2
MAXIMUM 1-HOUR CONSTRUCTION NOISE IMPACTS AT SENSITIVE RECEIVERS

Sensitive Receiver	Construction Activity	1-Hour L_{eq} (dBA)
Residence on Colfax Avenue	Phase 1 construction + Phase 2 demolition	79.0
Residence on W. Magnolia Boulevard	Phase 1 construction + Phase 2 demolition	77.0

Table 5.1-3
ESTIMATED UNMITIGATED CONSTRUCTION NOISE EXPOSURES AT NEAREST SENSITIVE RECEIVERS

Site	Sensitive Receiver	1-Hour L_{eq} (dBA)		
		Existing	Projected[a]	Change
1	Residence on Colfax Avenue	65.7	79.2	+13.5
11	Residence on W. Magnolia Boulevard	67.2	77.4	+10.2

[a]Existing ambient plus contribution of construction equipment during the loudest construction phase combination.

5.1.2 Impacts to Onsite (Campus) Sensitive Receivers

Existing buildings will be demolished and new structures will be built on a functioning, full-time high school campus. Most of the noise-generating construction activities will, for several days at a time, be near enough to classroom building to create a potential for noise disturbance. Per LAUSD

26 Technical Noise Supplement. Prepared by ICF Jones & Stokes, Sacramento, California for California Department of Transportation (Caltrans), Sacramento, California (November 2009), p. 2-12.

27 North Hollywood High School Modernization Traffic Memo. Memorandum from Brian Marchetti, KOA Corporation to William Meade, Los Angeles Unified School District and Betsy Lindsay, UltraSystems Environmental Inc. November 14, 2017, p. 7.

standards, interior classroom noise levels are supposed to be at 45 dBA L_{eq} or below. The exterior walls of the classroom building already provide considerable attenuation. As seen in **Section 3.7**, ambient noise levels outside three existing buildings ranged from 58.5 to 65.9. Thus, the buildings are capable of attenuating up to about 21 dBA without extra measures. Implementation of **SC-N-5** will minimize noise-related disruptions to school operations during construction.

5.2 Long-Term Noise Impacts

The project will replace or upgrade facilities on the campus of North Hollywood School, but it will not increase the number of students or faculty at the school, and will not introduce major new onsite noise sources or bring existing noise sources closer to sensitive receivers. Therefore, there will be no change in exposure to the community and the impact will be less than significant.

For offsite, on-road noise impacts to be significant, it is generally necessary for traffic to double.[28] As stated in the traffic study for the North Hollywood High School comprehensive modernization project, the proposed project would not increase the existing number of students, nor would it add additional uses, and therefore would not generate new (permanent) traffic to the study area.[29] Therefore, impacts will be less than significant.

5.3 Vibration Impacts

Vibration is sound radiated through the ground. Ground-borne noise is the rumbling sound caused by the vibration of building interior surfaces. The ground motion caused by vibration is measured as peak particle velocity (PPV) in inches per second and is referenced as vibration decibels (VdB). Typical outdoor sources of perceptible ground-borne vibration are construction equipment and traffic on rough roads.

The American National Standards Institute (ANSI 1983) indicates that vibration levels in critical care areas, such as hospital surgical rooms and laboratories, should not exceed 0.2 inch per second of PPV. The FTA also uses a PPV of 0.2 inch per second as a vibration damage threshold for fragile buildings and a PPV of 0.12 inch per second for extremely fragile historic buildings (FTA 2006). The FTA criteria for infrequent ground-borne vibration events (less than 30 events per day) that may cause annoyance are 80 VdB for residences and buildings where people normally sleep, and 83 VdB for institutional land uses with primarily daytime use.

5.3.1 Construction Vibration

It is expected that ground-borne vibration from project construction activities would cause only intermittent, localized intrusion. The Proposed Project's construction activities most likely to cause vibration impacts are:

- **Heavy Construction Equipment:** Although all heavy, mobile construction equipment has the potential of causing at least some perceptible vibration while operating close to buildings, the vibration is usually short-term and is not of sufficient magnitude to cause building

28 Technical Noise Supplement. Prepared by ICF Jones & Stokes, Sacramento, California for California Department of Transportation (Caltrans), Sacramento, California (November 2009), p. 2-12.

29 North Hollywood High School Modernization Traffic Memo. Traffic memorandum from Brian Marchetti, KOA Corporation to William Meade, Los Angeles Unified School District and Betsy Lindsay, UltraSystems Environmental Inc. November 14, 2017, p. 1.

damage. It is not expected that heavy equipment such as large bulldozers would operate closely enough to any sensitive receivers to cause vibration impact.

- **Trucks:** Trucks hauling building materials to construction sites can be sources of vibration intrusion if the haul routes pass through residential neighborhoods on streets with bumps or potholes. Repairing the bumps and potholes almost always eliminates the problem.

The FTA (2006) has published standard vibration levels for construction equipment operations, at a distance of 25 feet. The calculated vibration levels expressed in VdB and PPV for typical construction equipment at distances of 25, 50, and 123 feet are listed in **Table 5.3-1**.[30]

Table 5.3-1
VIBRATION LEVELS OF TYPICAL CONSTRUCTION EQUIPMENT

Equipment	PPV at 25 feet (in/sec)	Vibration Decibels at 25 feet (VdB)	PPV at 50 feet (in/sec)	Vibration Decibels at 50 feet (VdB)	PPV At 123 feet (in/sec)[a]	Vibration Decibels at 123 feet (VdB)[a]
Loaded trucks	0.076	86	0.0269	80	0.0069	72
Jack hammer	0.035	79	0.0124	73	0.0032	65
Small bulldozer	0.003	58	0.0011	52	0.0003	44

Source: Calculated by UltraSystems from FTA data.
[a] Distance from nearest residence to center of construction activity.

As shown in **Table 5.3-1**, the vibration level of construction equipment at the nearest sensitive receiver (123 feet) is at most 0.0069 inch per second, which is less than the FTA damage threshold of 0.12 inch per second PPV for fragile historic buildings, and 72 VdB, which is less than the FTA threshold for human annoyance of 80 VdB. Vibration impacts during construction would therefore be less than significant.

5.3.2 Operational Vibration

As stated in the PEIR, school operations do not involve sources that cause substantial ground-borne vibration. Therefore, the modernization project at North Hollywood School will not result in long-term significant impacts due to ground-borne vibration or noise levels.

30 As seen in Table 3.6-1, the minimum distance to average onsite construction activities is 123 feet.

6.0 MITIGATION MEASURES

The standard conditions of approval cited in this report will be adequate to reduce all potentially significant impacts to less than significant. No noise mitigation measures are required for this project.

7.0 IMPACTS AFTER MITIGATION

No mitigation measures are required for this project.

8.0 REFERENCES

ANSI. 1983. Guide to the Evaluation of Human Exposure to Vibration in Buildings: American National Standards Institute, ANSI S.329-1983.

BREEZE Software. 2016. California Emissions Estimator Model. User's Guide, Version 2016.3.1. Prepared for the California Air Pollution Control Officers Association, in collaboration with South Coast Air Quality Management District and the California Air Districts. September.

Caltrans. 2013. Technical Noise Supplement to the Traffic Noise Analysis Protocol: California Department of Transportation, Sacramento, California. September.

FTA. 2006. Transit Noise and Vibration Impact Assessment: Federal Transit Administration, Office of Planning and Environment, FTA-VA-90-1003-06. May.

HUD. 1985. Noise Guidebook: U.S. Department of Housing and Urban Development.

OPR. 2003. General Plan Guidelines: State of California, Governor's Office of Planning and Research, Sacramento, California.

USEPA. 1974. Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety: U.S. Environmental Protection Agency. March.

ATTACHMENT

ATTACHMENT 1

NOISE MEASUREMENT FIELD DATA FORMS AND NOISE METER OUTPUT FILES

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16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part A

Date: 10/20/16 Day of Week: Thurs Time: 900 Project Number: 6013

Monitoring Segment / Area: 0013 Monitoring Site Address: Between library/classroom on campus

Measurement Taken By: S. Seferyn / E. Mendoza of UltraSystems Environmental

Approximate Wind Speed: 0 mph [km/hr] Approximate Wind Direction: From the N/A

Approximate distance of sound level meter from receptor location: 15 FT

Approximate distance of sound level meter from construction site: —
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☐ Residential ☑ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☑ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 903 Measurement End Time: 918

Total Measurement Time: 15 mins Session File Name (e.g., S012): S049

Check the measurement purpose:

☑ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 113.7 Post: 113.7
$L_{eq\,(h)}$	Slow: 56.8 Fast: X
L_{max}	Slow: 71.1 Fast: X
L_{90}	Slow: 51.5 Fast: X

Field Notes:

1. Photos 36-39
2. Bell 9:04Am, Kids change classes; Bell at 910
3.

Noise Monitor's Signature: [signature] Date: 10/20/16

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949.788.4900

Noise Measurement Report Form – Part B

Date: 10/20/16 Day of Week: Thurs Time: 900 Project Number: 6013

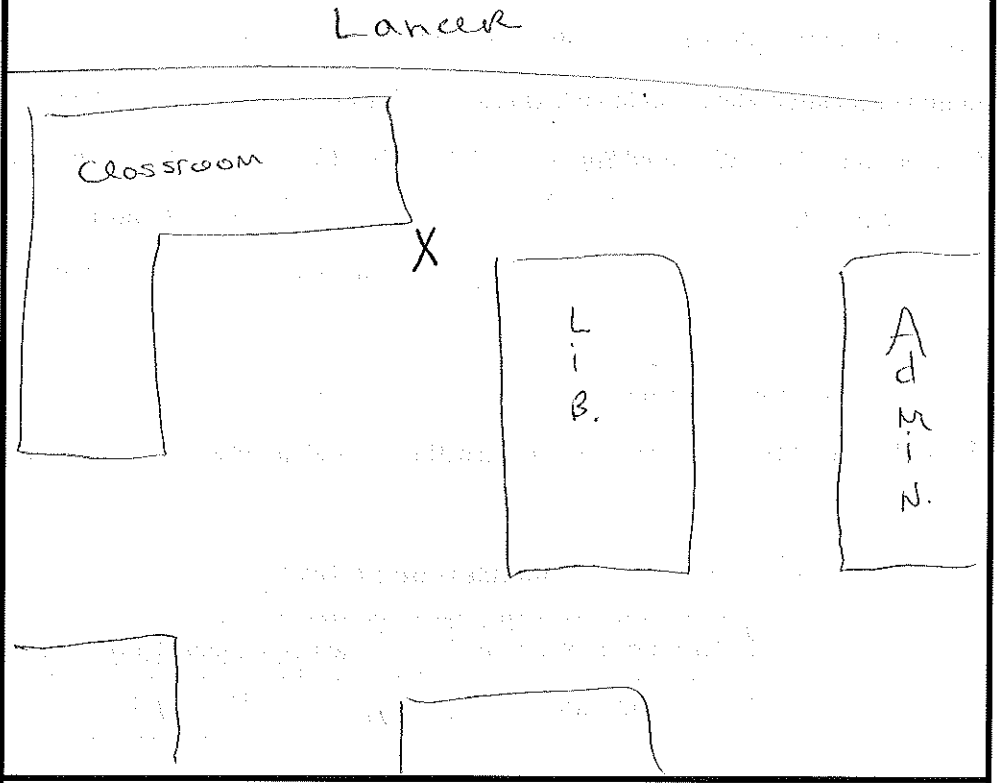
Monitoring Segment / Area: 6013 Monitoring Site Address: Between library / classroom on campus

Site Map

Plan View

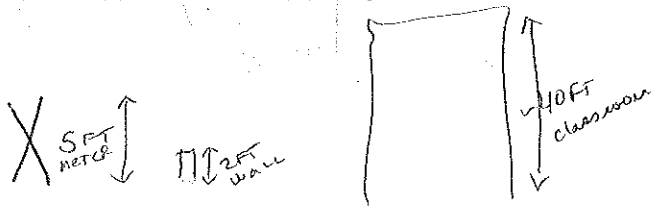
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)



Latitude: 34.18161	Longitude: 118.41209	Elevation: 52? Doesn't seem right

Noise Monitor's Signature: _____ Date: 10/20/16

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949.788.4900

Noise Measurement Report Form – Part A

Date: 10/20/16 Day of Week: Thurs Time: 925 Project Number: 6013

Monitoring Segment / Area: 4014 Monitoring Site Address: Between arts/classroom on campus

Measurement Taken By: S. Sefcryn / E. Mendoza of UltraSystems Environmental

Approximate Wind Speed: 0.2 mph [km/hr] Approximate Wind Direction: From the W

Approximate distance of sound level meter from receptor location: 10 FT

Approximate distance of sound level meter from construction site: ~

(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☐ Residential ☑ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☑ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 925 Measurement End Time: 940

Total Measurement Time: 15 mins Session File Name (e.g., S012): S050

Check the measurement purpose:

☑ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 113.7 Post: 113.7
L_{eq} (h)	Slow: 58.6 Fast:
L_{max}	Slow: 74.0 Fast:
L_{90}	Slow: 51.8 Fast:

Field Notes:

1. Photos 40-42 / Photo 43 of nests of swallow on classroom bldg entrance
2. 928 Campus announcements for a few mins
3. 932 students leave classrooms to head to PE area for earthquake drill

Noise Monitor's Signature: [signature] Date: 10/20/16

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Noise Measurement Report Form – Part B

Date: 10/20/16 Day of Week: Thurs Time: 925 Project Number: 6013

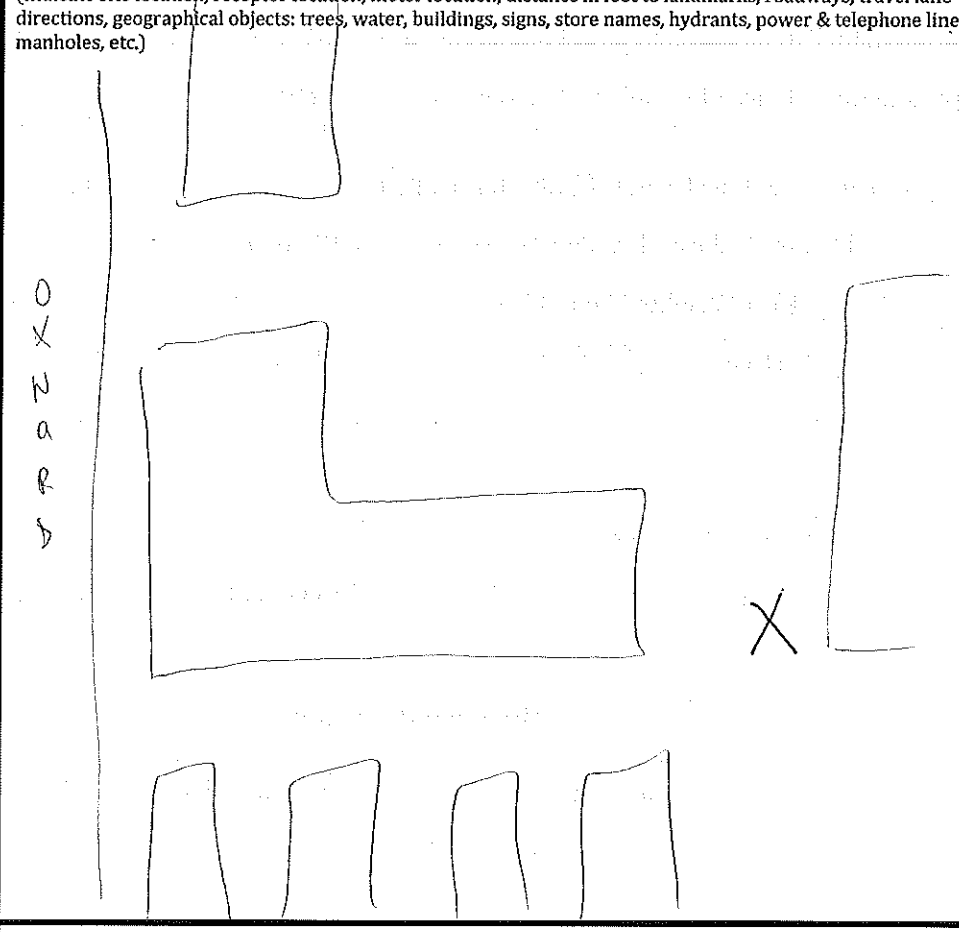
Monitoring Segment / Area: 014 Monitoring Site Address: Between arts / classroom on campus

Site Map

Plan View

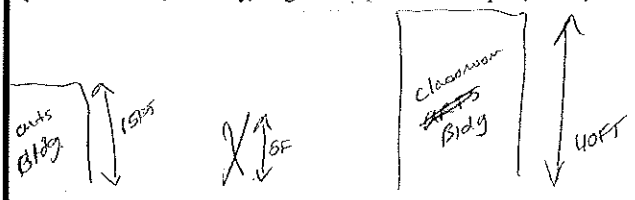
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)



Latitude: 34.17849	Longitude: 118,41644	Elevation: 686

Noise Monitor's Signature: _____ Date: 10/20/16

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949.788.4900

Noise Measurement Report Form – Part A

Date: 10/20/16 Day of Week: Thurs Time: 945 Project Number: 6013

Monitoring Segment / Area: 015 Monitoring Site Address: Between classroom/portables on campus

Measurement Taken By: S. Seferyn / E. Mendoza of UltraSystems Environmental

Approximate Wind Speed: 1.2 mph [km/hr] Approximate Wind Direction: From the N

Approximate distance of sound level meter from receptor location: 7FT

Approximate distance of sound level meter from construction site: ——
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☐ Residential ☑ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☑ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 945 Measurement End Time: 1000

Total Measurement Time: 15 mins Session File Name (e.g., S012): S051

Check the measurement purpose:

☑ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 113.7 Post: 113.6
$L_{eq\ (h)}$	Slow: 60.8 Fast: X
L_{max}	Slow: 68.6 Fast: X
L_{90}	Slow: 51.2 Fast: X

Field Notes:

1. Photos 44-47 / Photo 48 swallow nests at classroom bldg entrance
2. 25FT - 30FT from air conditioning unit for classroom (ran from 945-948)
3. ↑ (kicked back on from 956 - until end of measurement)

Noise Monitor's Signature: [signature] Date: 10/20/16

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949.788.4900

Noise Measurement Report Form – Part B

Date: 10/20/16 Day of Week: Thurs Time: 945 Project Number: 6013

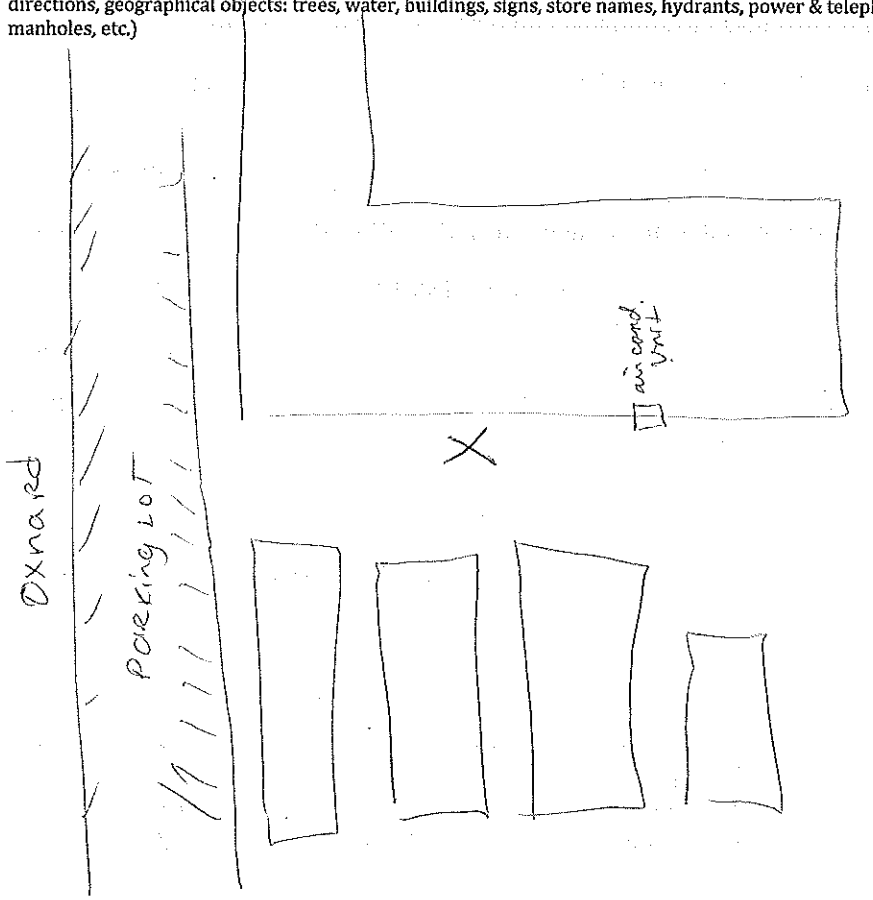
Monitoring Segment / Area: 015 Monitoring Site Address: between classrooms/portables on campus

Site Map

Plan View

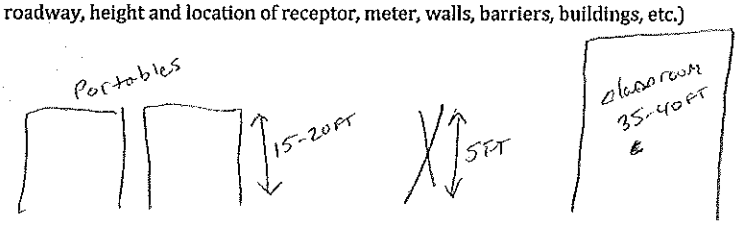
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)



Latitude: 34.17877	Longitude: 118.41684	Elevation: 750

Noise Monitor's Signature: _____ Date: 10/20/16

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949.788.4900

Noise Measurement Report Form – Part A

Date: 10/20/16 Day of Week: Thurs. Time: 1035 Project Number: 6013

Monitoring Segment / Area: 016 Monitoring Site Address: 5914 Coldwater canyon ave.

Measurement Taken By: S. Sefeyn / E. Mendoza of UltraSystems Environmental

Approximate Wind Speed: 0 mph [km/hr] Approximate Wind Direction: From the —

Approximate distance of sound level meter from receptor location: 7 FT

Approximate distance of sound level meter from construction site: —
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☑ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☑ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 1036 Measurement End Time: 10 51

Total Measurement Time: 15 mins Session File Name (e.g., S012): S052

Check the measurement purpose:

☑ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 113.7 Post: 113.8
$L_{eq\ (h)}$	Slow: 65.2 Fast: X
L_{max}	Slow: 76.6 Fast: X
L_{90}	Slow: 50.9 Fast: X

Field Notes:

1. Photos 49-50
2.
3.

Noise Monitor's Signature: [signature] Date: 10/20/16

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949.788.4900

Noise Measurement Report Form – Part B

Date: 10/20/16 Day of Week: Thurs. Time: 1035 Project Number: 6013

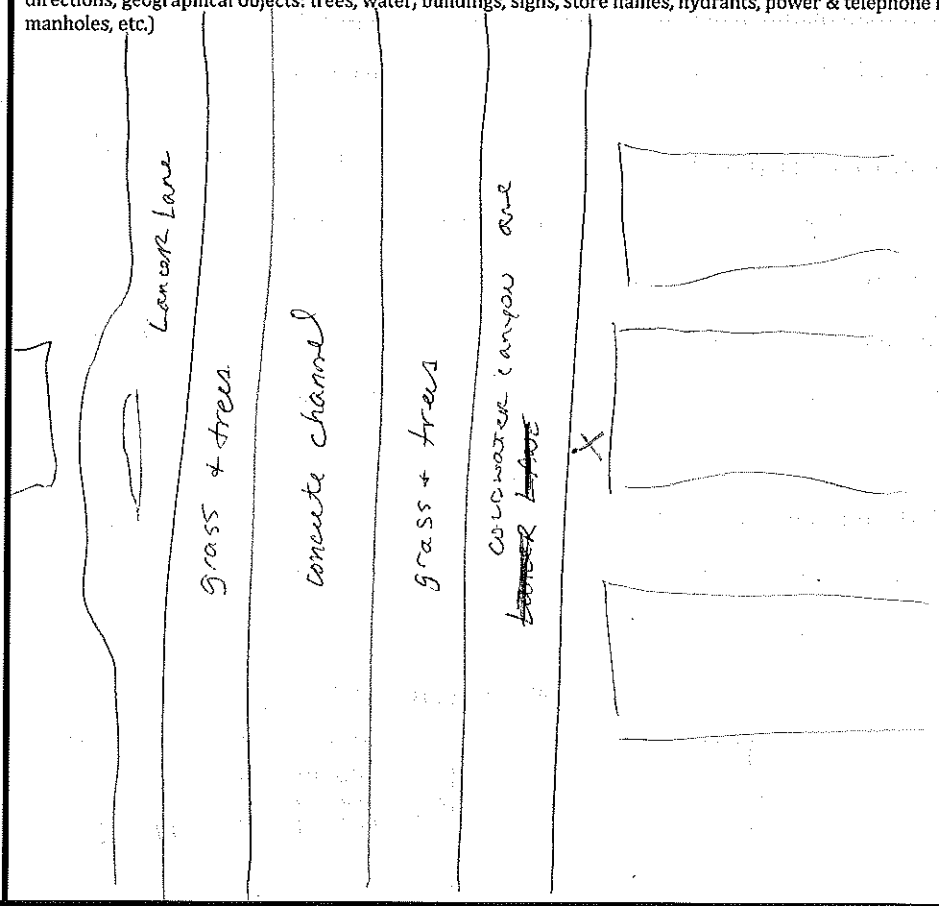
Monitoring Segment / Area: 016 Monitoring Site Address: 5914 Coldwater Canyon Ave

Site Map

Plan View

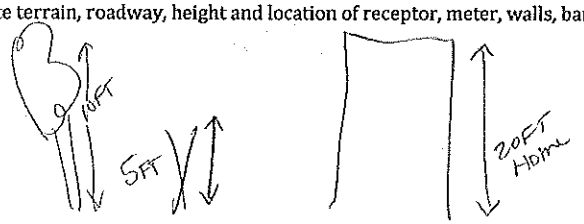
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)



Latitude: 34.17788	Longitude: 118.41364	Elevation: 676

Noise Monitor's Signature: Steven Seifert Date: 10/20/16

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Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part A

Date: 10/20/16 Day of Week: Thurs Time: 1056 Project Number: 6013

Monitoring Segment / Area: 017 Monitoring Site Address: 5800 Coldwater Canyon

Measurement Taken By: S. Seferyn / E. Mendoza of UltraSystems Environmental

Approximate Wind Speed: 0.7 mph [km/hr] Approximate Wind Direction: From the W

Approximate distance of sound level meter from receptor location: 6 FT

Approximate distance of sound level meter from construction site: —
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☑ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☑ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 1056 Measurement End Time: 1111

Total Measurement Time: 15 mins Session File Name (e.g., S012): S053

Check the measurement purpose:

☑ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 113.7 Post: 113.8
$L_{eq\ (h)}$	Slow: 68.4 Fast: X
L_{max}	Slow: 85.8 Fast: X
L_{90}	Slow: 51.3 Fast: X

Field Notes:

1. Photos 51-53
2.
3.

Noise Monitor's Signature: [signature] Date: 10/20/16

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16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part B

Date: 10/20/16 Day of Week: Thurs Time: 1056 Project Number: 6013

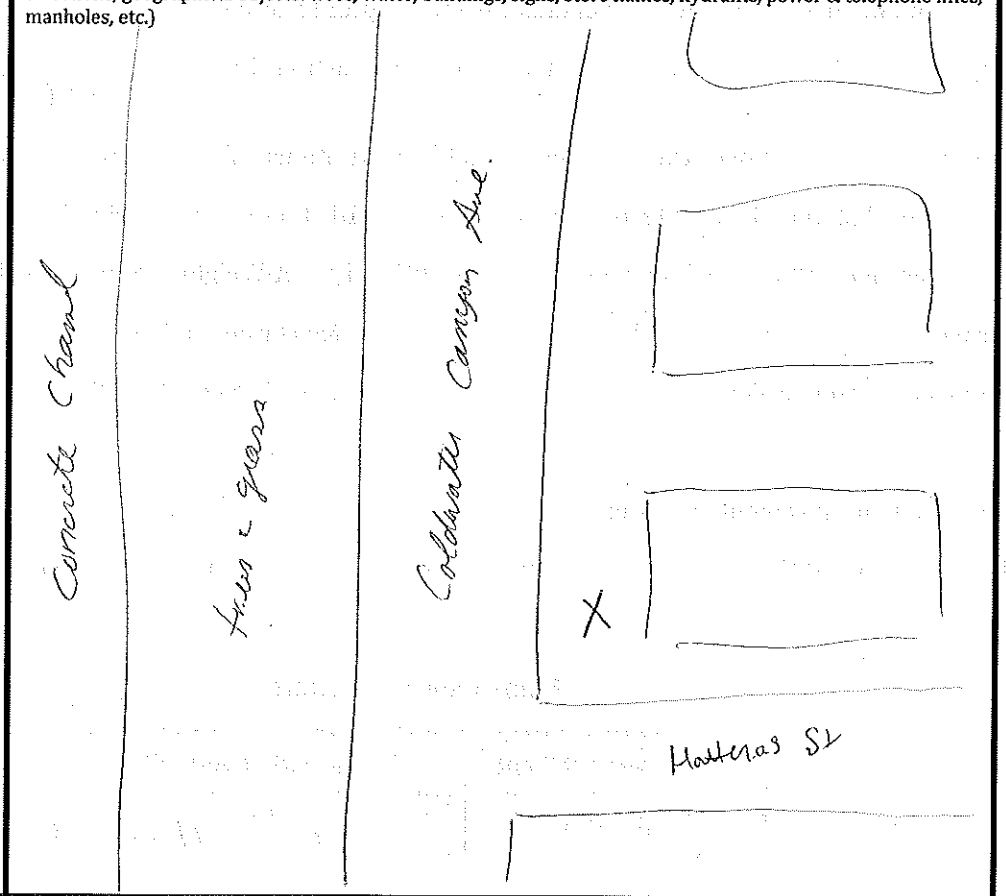
Monitoring Segment / Area: 017 Monitoring Site Address: 5800 Coldwater Canyon

Site Map

Plan View

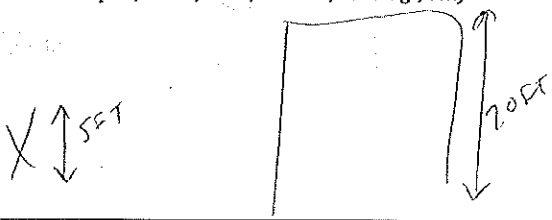
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)



Latitude: 34.17585	Longitude: 118.41371	Elevation: 690

Noise Monitor's Signature: _____ Date: 10/20/16

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Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part A

Date: 10/20/16 Day of Week: Thurs Time: 1117 Project Number: 6013

Monitoring Segment / Area: 018 Monitoring Site Address: 12860 Oxnard St.

Measurement Taken By: S. Sclafyn/E. Mendoza of UltraSystems Environmental

Approximate Wind Speed: 0.9 mph [km/hr] Approximate Wind Direction: From the S

Approximate distance of sound level meter from receptor location: 12 FT

Approximate distance of sound level meter from construction site: ____
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☑ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☑ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 1117 Measurement End Time: 1132

Total Measurement Time: 15 mins Session File Name (e.g., S012): S054

Check the measurement purpose:

☑ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 113.8 Post: 113.7
$L_{eq\,(h)}$	Slow: 71.4 Fast:
L_{max}	Slow: 88.3 Fast:
L_{90}	Slow: 61.3 Fast:

Field Notes:

1. Photos 54-56
2. ____
3. ____

Noise Monitor's Signature: Sean Sclafyn Date: 10/20/16

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949.788.4900

Noise Measurement Report Form – Part B

Date: 10/20/16 Day of Week: Thurs Time: _____ Project Number: 6013

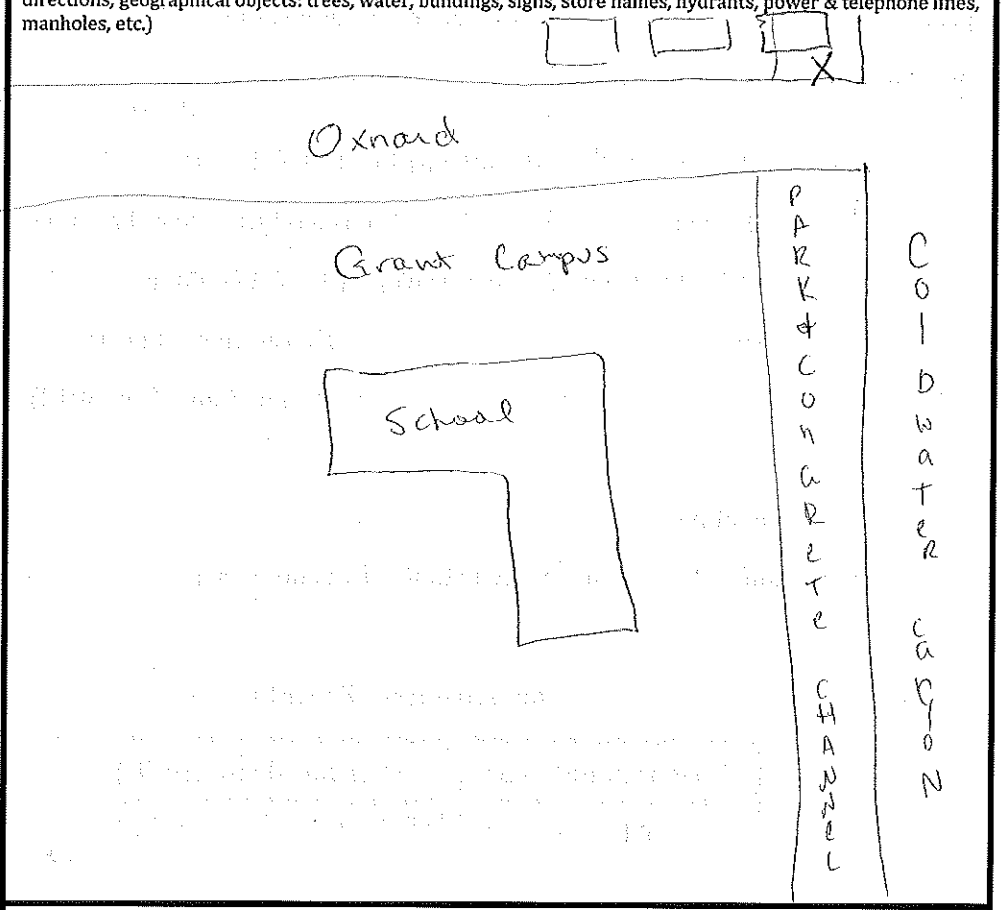
Monitoring Segment / Area: 018 Monitoring Site Address: 12860 Oxnard St

Site Map

Plan View

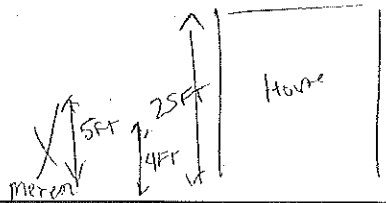
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)



Latitude: 34.17952	Longitude: 118.41466	Elevation: 686

Noise Monitor's Signature: _____ Date: 10/20/16

metal Gate / fence

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Noise Measurement Report Form – Part A

Date: 10/20/16 Day of Week: Thurs Time: 1137 Project Number: 6013

Monitoring Segment / Area: 019 Monitoring Site Address: 12959 Quard

Measurement Taken By: S. Seferyn / E. Mendoza of UltraSystems Environmental

Approximate Wind Speed: 1.3 mph [km/hr] Approximate Wind Direction: From the S

Approximate distance of sound level meter from receptor location: 15 FT

Approximate distance of sound level meter from construction site: —
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☑ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☑ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 1137 Measurement End Time: 11 52

Total Measurement Time: 15 mins Session File Name (e.g., S012): S055

Check the measurement purpose:

☑ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 113.8 Post: 113.8
$L_{eq\ (h)}$	Slow: 69.0 Fast:
L_{max}	Slow: 80.5 Fast:
L_{90}	Slow: 54.5 Fast:

Field Notes:

1. Photos 57-58
2.
3.

Noise Monitor's Signature: Date: 10/20/16

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Noise Measurement Report Form – Part B

Date: 10/20/16 Day of Week: Thurs Time: 1137 Project Number: 6013

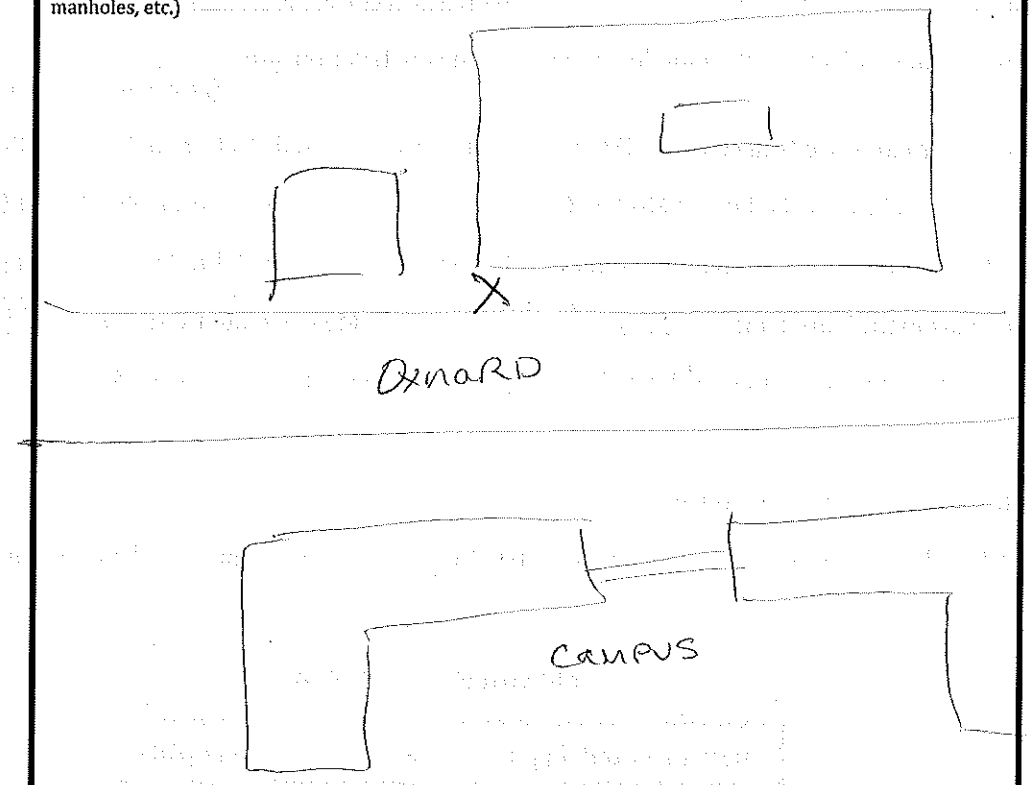
Monitoring Segment / Area: 019 Monitoring Site Address: 12959 Oxnard

Site Map

Plan View

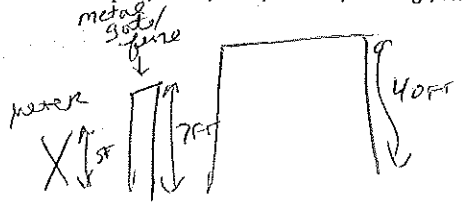
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)



Latitude: 34.17952	Longitude: 118.41619	Elevation: 677

Noise Monitor's Signature: _____ Date: 10/20/16

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Noise Measurement Report Form – Part A

Date: 10/20/16 Day of Week: Thurs Time: 1157 Project Number: 6013

Monitoring Segment / Area: 020 Monitoring Site Address: 13059 Oxnard

Measurement Taken By: J. Sefergn / E. Mendoza of UltraSystems Environmental

Approximate Wind Speed: 20 mph [km/hr] Approximate Wind Direction: From the S

Approximate distance of sound level meter from receptor location: 20 FT

Approximate distance of sound level meter from construction site: —
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☑ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☑ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 1157 Measurement End Time: 1212

Total Measurement Time: 15 mins Session File Name (e.g., S012): S056

Check the measurement purpose:

☑ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 113.9 Post: 113.8
$L_{eq\ (h)}$	Slow: 72.4 Fast: X
L_{max}	Slow: 84.3 Fast: X
L_{90}	Slow: 59.2 Fast: X

Field Notes:

1. Photos 59-60
2.
3.

Noise Monitor's Signature: [signature] Date: 10/20/16

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949.788.4900

Noise Measurement Report Form – Part B

Date: 10/20/16 Day of Week: Thurs Time: 1157 Project Number: 6013

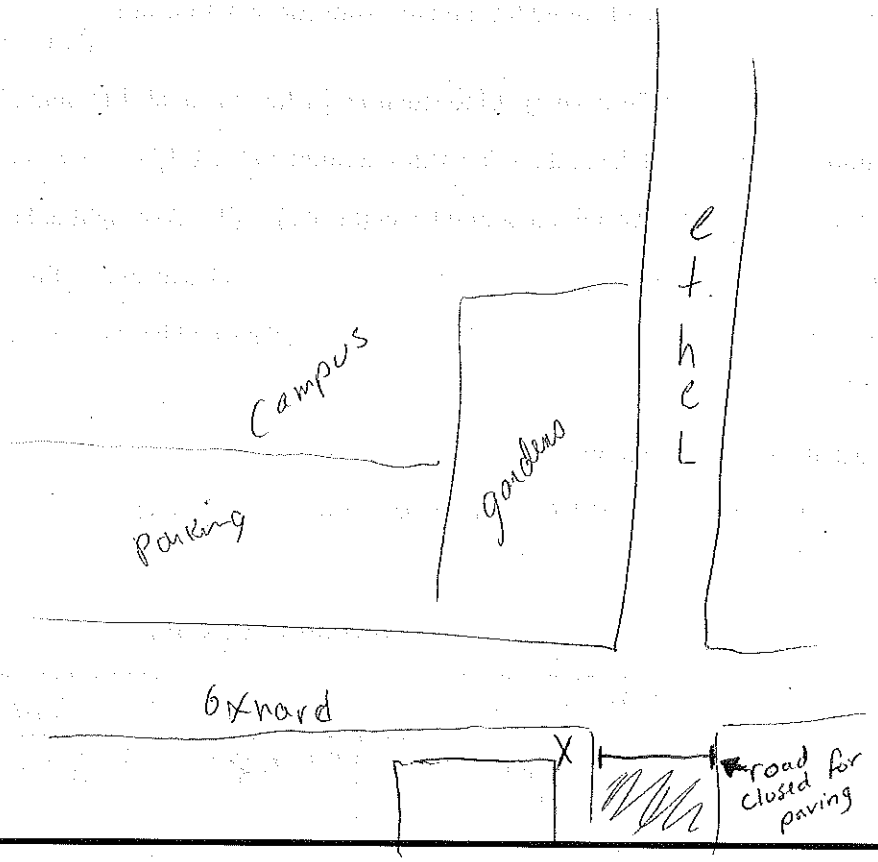
Monitoring Segment / Area: 020 Monitoring Site Address: 13059 Oxnard

Site Map

Plan View

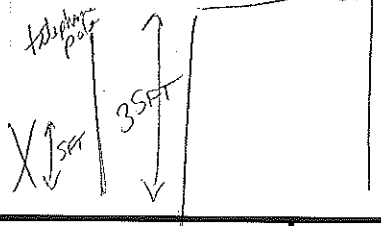
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)



Latitude: 34.17950	Longitude: 118.41805	Elevation: 683

Noise Monitor's Signature: _____ Date: _____

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949.788.4900

Noise Measurement Report Form – Part A

Date: 10/20/16 Day of Week: Thurs Time: 1221 Project Number: 6013

Monitoring Segment / Area: 021 Monitoring Site Address: 5712 Ethel

Measurement Taken By: S. Seferyn / E. Mendoza of UltraSystems Environmental

Approximate Wind Speed: 0 mph [km/hr] Approximate Wind Direction: From the —

Approximate distance of sound level meter from receptor location: 25ft

Approximate distance of sound level meter from construction site: —
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☐ Residential ☑ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☑ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 1221 Measurement End Time: 1236

Total Measurement Time: 15 mins Session File Name (e.g., S012): S057

Check the measurement purpose:

☑ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 113.8 Post: 113.7
$L_{eq\ (h)}$	Slow: 59.1 Fast:
L_{max}	Slow: 74.4 Fast:
L_{90}	Slow: 50.4 Fast:

Field Notes:

1. Photo 61-63
2. Helicopter flew over at 1235
3. —

Noise Monitor's Signature: S. Seferyn Date: 10/20/16

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Noise Measurement Report Form – Part B

Date: 10/20/16 Day of Week: Thurs Time: 1221 Project Number: 6013

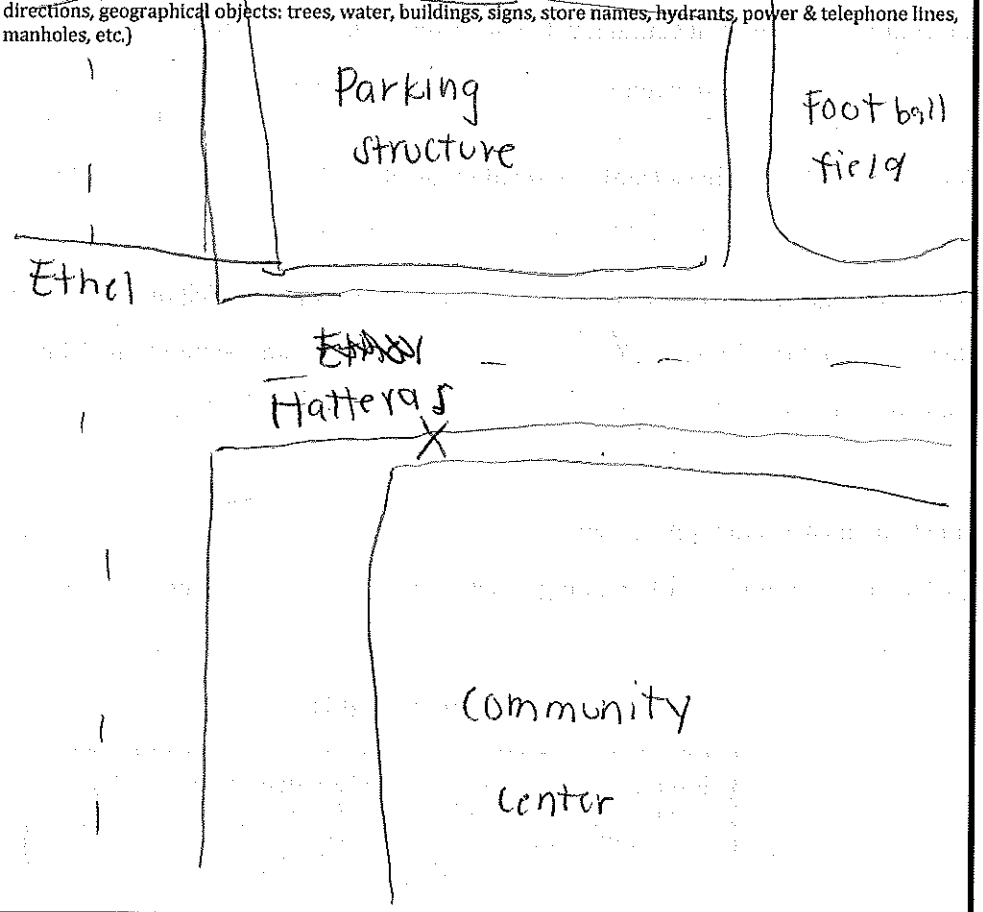
Monitoring Segment / Area: 021 Monitoring Site Address: 5712 Ethel
Community Center

Site Map

Plan View

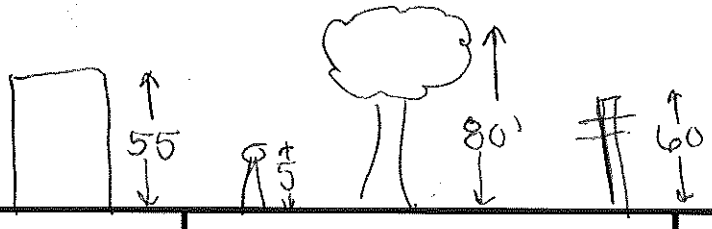
North Arrow (fill-in)

(Indicate site location, ~~receptor location,~~ meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)



Latitude: 34.17553	Longitude: 118.41788	Elevation: 671

Noise Monitor's Signature: _____ Date: 10/20/16

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949.788.4900

Noise Measurement Report Form – Part A

Date: 10/20/16 Day of Week: Thurs Time: 1240 Project Number: 6013

Monitoring Segment / Area: 022 Monitoring Site Address: next to LA Valley College Stadium

Measurement Taken By: S. Seferyn / E. Mendoza of UltraSystems Environmental

Approximate Wind Speed: 10 mph [km/hr] Approximate Wind Direction: From the N

Approximate distance of sound level meter from receptor location: 10 FT

Approximate distance of sound level meter from construction site: —
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☐ Residential ☑ Institutional ☐ Comm./Ind. ☑ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☑ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 1240 Measurement End Time: 1255

Total Measurement Time: 15 mins Session File Name (e.g., S012): S058

Check the measurement purpose:

☑ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 113.7 Post: 113.7
$L_{eq\ (h)}$	Slow: 62.3 Fast:
L_{max}	Slow: 77.8 Fast:
L_{90}	Slow: 48.6 Fast:

Field Notes:

1. Photos 64-66
2. NO children or young adults on any recreation field
3.

Noise Monitor's Signature: Sloan Seferyn Date: 10/20/16

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Noise Measurement Report Form – Part B

Date: 10/20/16 Day of Week: Thurs Time: 1240 Project Number: 6013

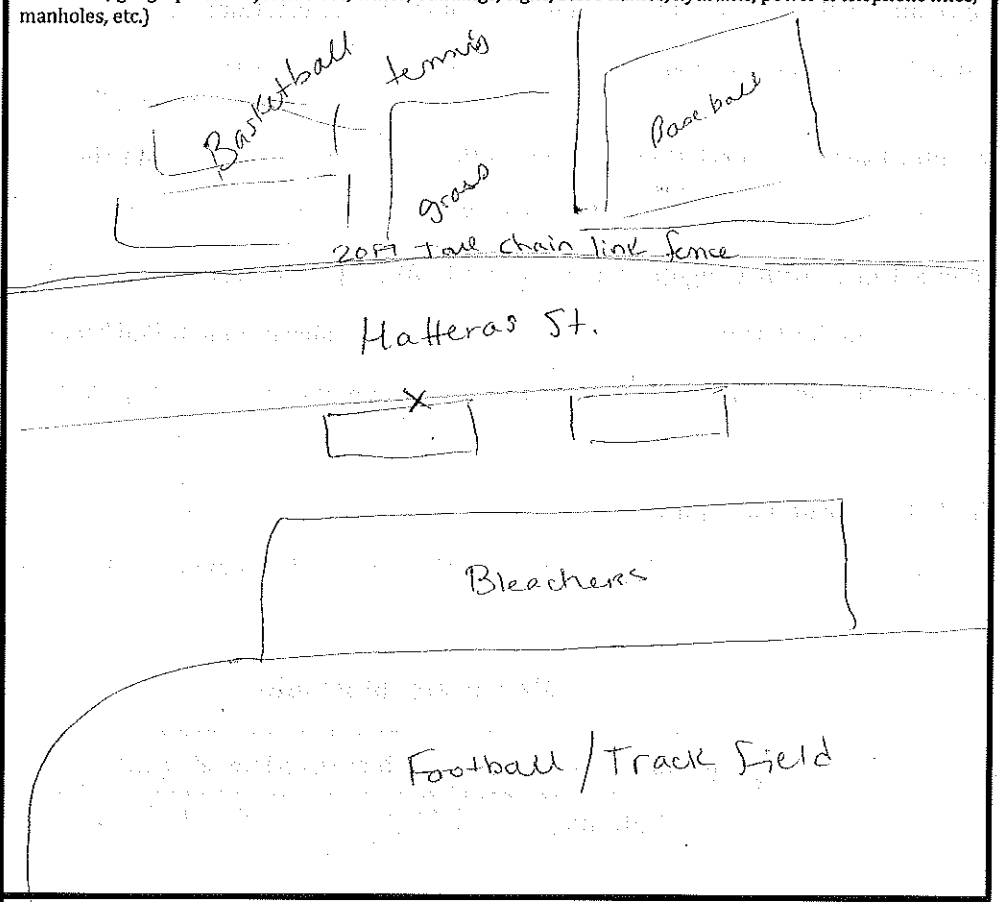
Monitoring Segment / Area: 022 Monitoring Site Address: Next to LA Valley College Stadium

Site Map

Plan View

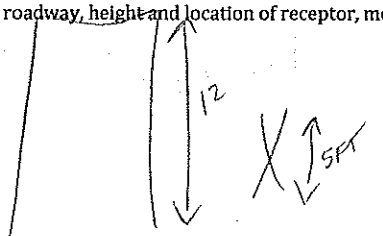
North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)



Latitude: 34.17558	Longitude: 118.41624	Elevation: 664

Noise Monitor's Signature: [signature] Date: 10/20/16

Session Report

10/25/2016

Information Panel

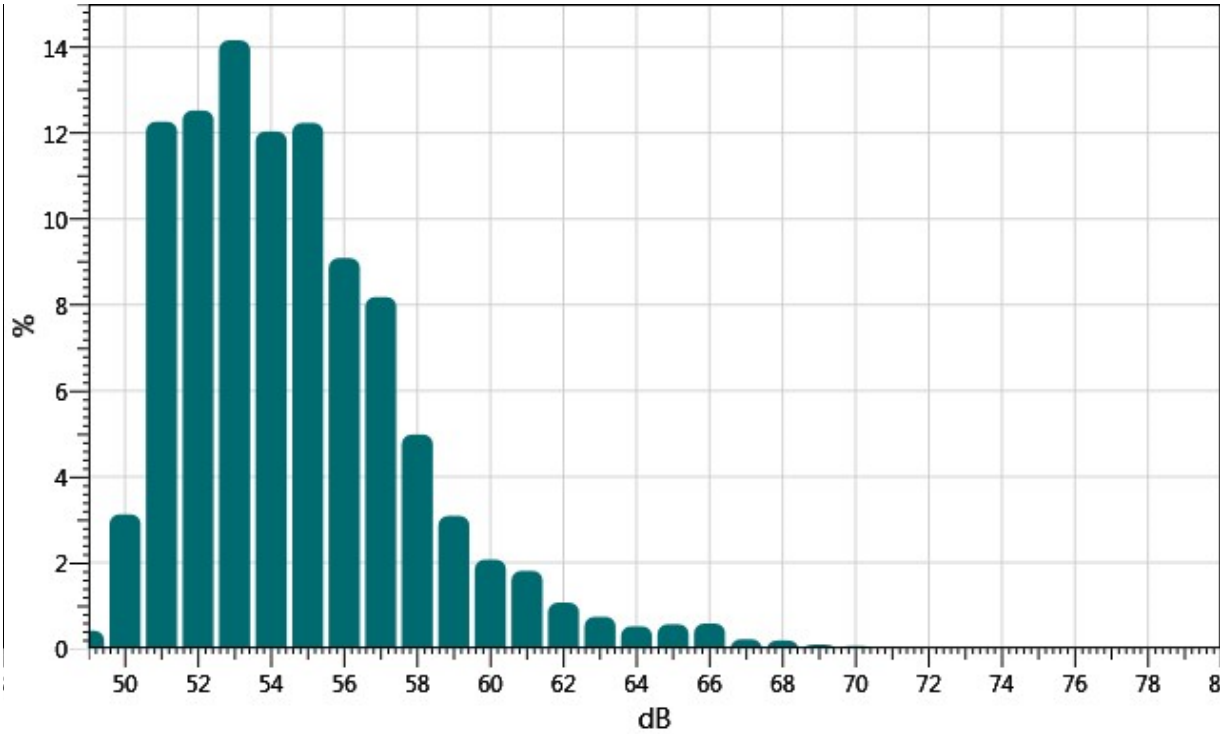
Name	S049_BLH080004_25102016_110318
Start Time	10/20/2016 8:09:07 AM
Stop Time	10/20/2016 8:24:07 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	56.8 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

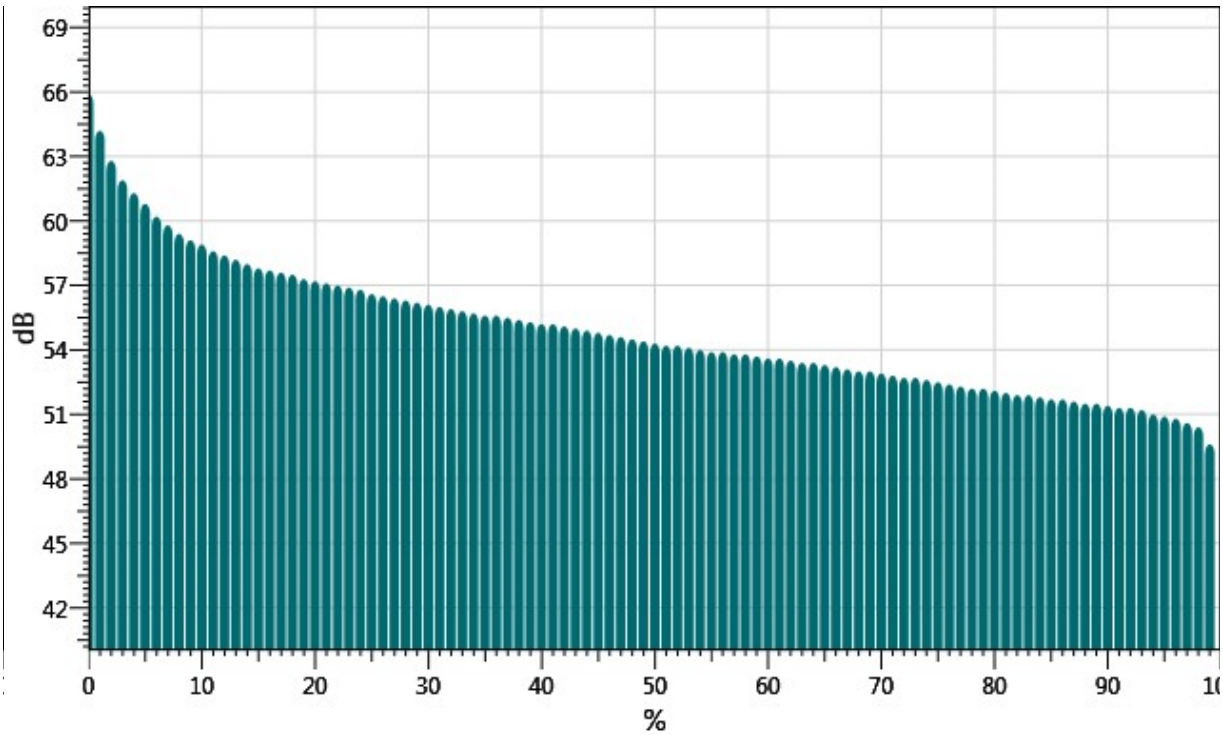
Statistics Chart

S049_BLH080004_25102016_110318: Statistics Chart



Exceedance Chart

S049_BLH080004_25102016_110318: Exceedance Chart



Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
49:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.28	0.41
50:	0.12	0.05	0.08	0.15	0.14	0.14	0.18	0.81	0.77	0.68	3.12
51:	0.62	1.01	0.73	0.98	1.17	1.77	1.64	1.39	1.42	1.52	12.26
52:	1.57	1.12	1.32	1.26	1.23	0.81	1.09	1.59	1.57	0.96	12.52
53:	1.24	1.54	1.27	1.28	1.33	1.49	1.42	1.49	1.43	1.68	14.16
54:	1.68	1.77	0.77	1.34	1.45	1.38	0.99	0.94	0.90	0.81	12.03
55:	1.13	1.02	1.27	1.16	1.28	1.37	1.20	1.17	1.18	1.45	12.23
56:	1.06	1.03	1.07	1.00	0.65	0.72	0.79	0.97	0.94	0.86	9.09
57:	1.01	0.93	0.69	0.92	0.76	0.76	0.88	0.86	0.71	0.65	8.18
58:	0.64	0.64	0.51	0.55	0.48	0.53	0.44	0.46	0.35	0.39	4.98
59:	0.44	0.37	0.37	0.31	0.27	0.31	0.25	0.25	0.25	0.26	3.09
60:	0.27	0.29	0.18	0.22	0.21	0.15	0.16	0.20	0.23	0.17	2.07
61:	0.20	0.23	0.19	0.18	0.16	0.19	0.18	0.22	0.14	0.11	1.81
62:	0.13	0.13	0.13	0.10	0.12	0.11	0.09	0.08	0.09	0.10	1.07
63:	0.06	0.09	0.06	0.07	0.08	0.08	0.07	0.06	0.08	0.09	0.74
64:	0.05	0.07	0.06	0.06	0.06	0.04	0.04	0.05	0.04	0.05	0.52
65:	0.05	0.06	0.06	0.07	0.07	0.05	0.05	0.06	0.04	0.07	0.56
66:	0.19	0.09	0.03	0.05	0.03	0.03	0.03	0.05	0.05	0.03	0.58
67:	0.04	0.02	0.02	0.02	0.03	0.02	0.02	0.01	0.02	0.02	0.21
68:	0.02	0.02	0.03	0.02	0.03	0.03	0.02	0.01	0.01	0.01	0.19
69:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.09
70:	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.06
71:	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

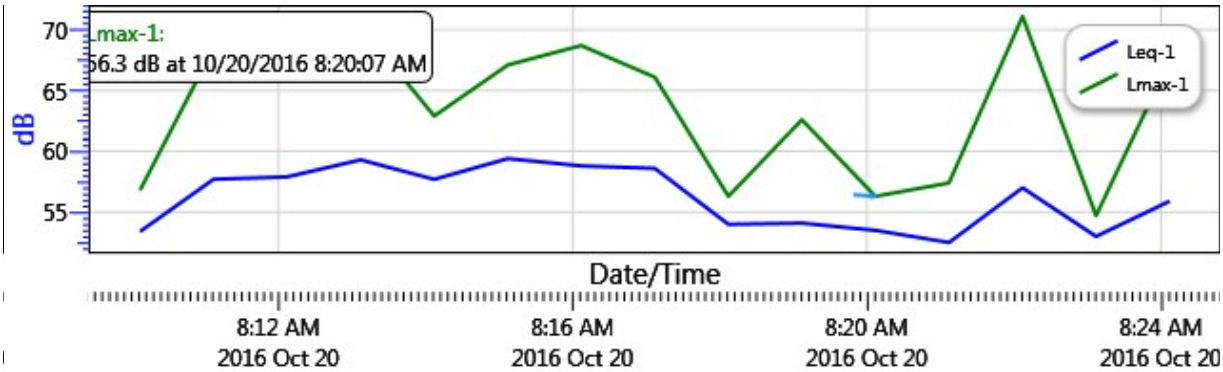
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		65.9	64.2	62.8	61.9	61.3	60.8	60.2	59.8	59.4
10%:	59.1	58.9	58.6	58.4	58.2	58.0	57.8	57.7	57.6	57.5
20%:	57.3	57.2	57.1	57.0	56.9	56.8	56.6	56.5	56.4	56.3
30%:	56.2	56.1	56.0	55.9	55.8	55.7	55.6	55.6	55.5	55.4
40%:	55.3	55.2	55.2	55.1	55.0	54.9	54.8	54.7	54.6	54.5
50%:	54.4	54.3	54.2	54.2	54.1	54.0	53.9	53.9	53.8	53.8
60%:	53.7	53.6	53.6	53.5	53.4	53.4	53.3	53.2	53.1	53.0
70%:	53.0	52.9	52.8	52.7	52.7	52.6	52.5	52.4	52.3	52.2

80%:	52.2	52.1	52.0	51.9	51.9	51.8	51.7	51.7	51.6	51.5
90%:	51.5	51.4	51.3	51.3	51.2	51.0	50.9	50.8	50.6	50.4
100%:	49.6									

Logged Data Chart

S049_BLH080004_25102016_110318: Logged Data Chart



Session Report

10/25/2016

Information Panel

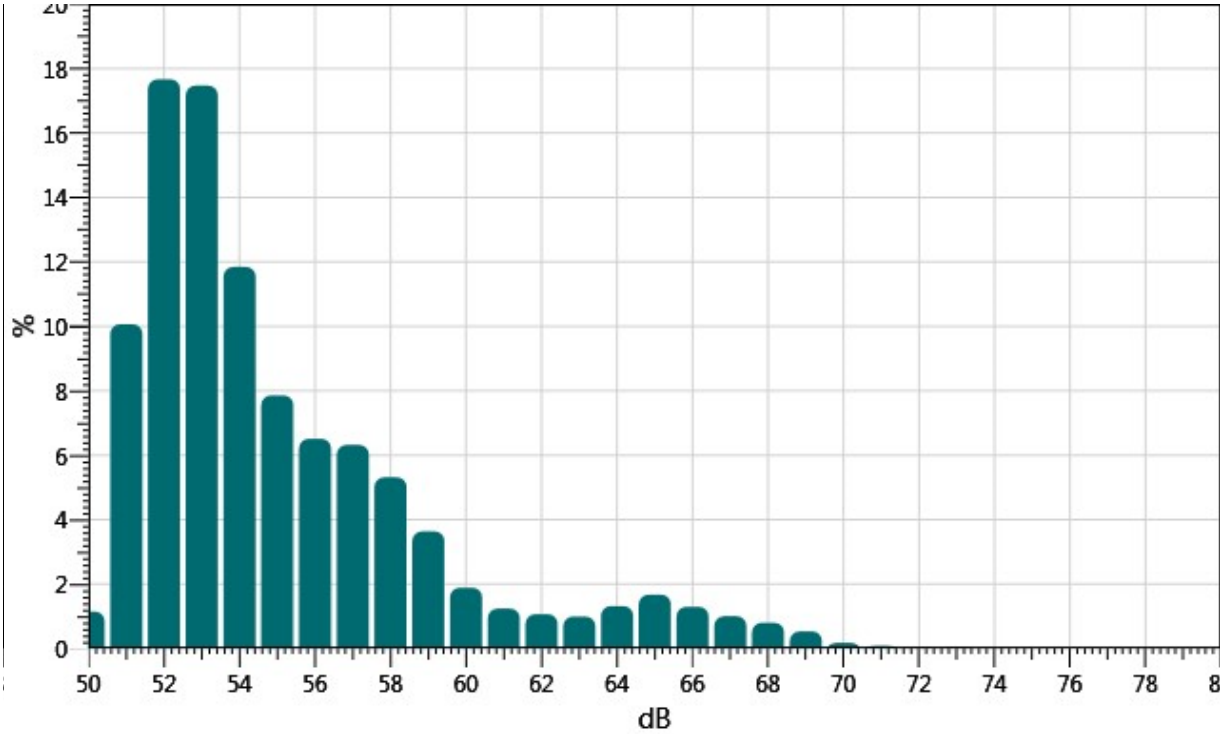
Name	S050_BLH080004_25102016_110319
Start Time	10/20/2016 8:31:34 AM
Stop Time	10/20/2016 8:46:34 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	58.5 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

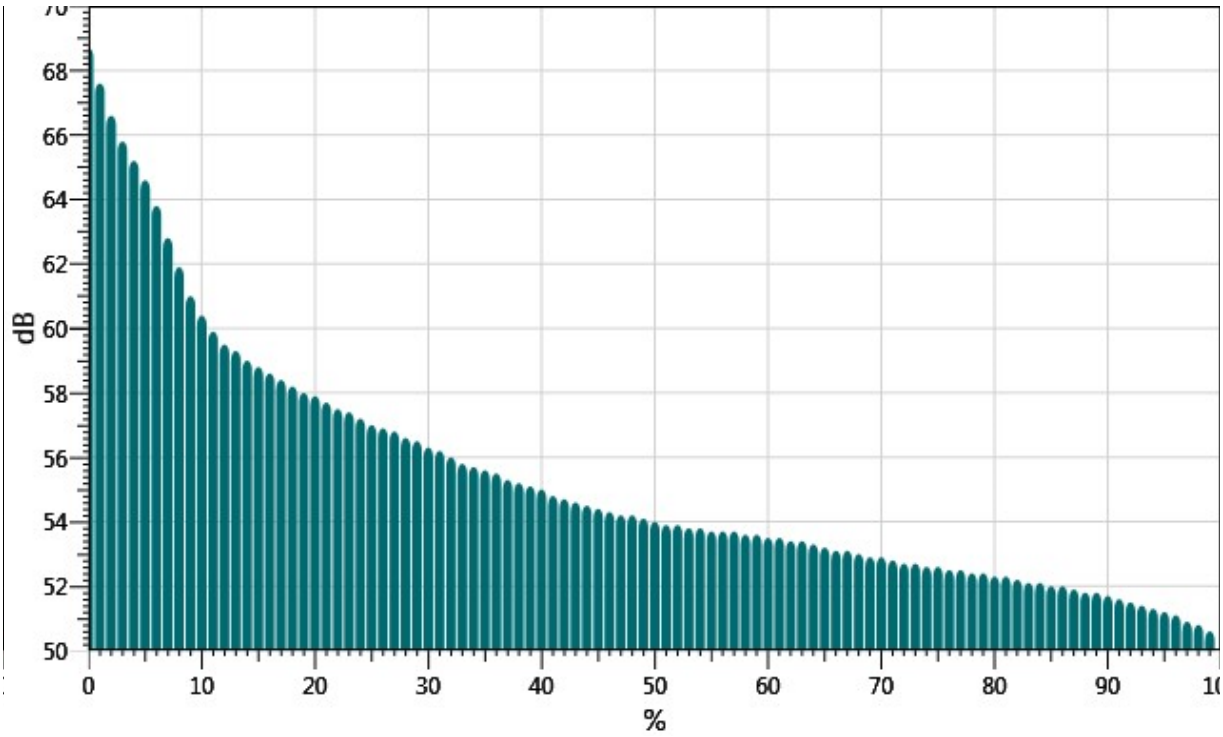
Statistics Chart

S050_BLH080004_25102016_110319: Statistics Chart



Exceedance Chart

S050_BLH080004_25102016_110319: Exceedance Chart



Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
50:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.52	0.53	1.15
51:	1.03	0.82	0.75	0.93	0.87	0.80	0.96	1.06	1.35	1.49	10.06
52:	1.69	1.33	1.81	1.77	1.85	1.84	2.09	1.99	1.78	1.50	17.67
53:	1.58	1.41	1.26	1.24	1.55	1.82	1.79	2.06	2.54	2.21	17.47
54:	1.85	1.52	1.18	1.51	1.31	1.14	0.84	0.91	0.88	0.71	11.84
55:	0.71	0.76	0.75	0.73	0.90	0.87	1.02	0.81	0.66	0.65	7.85
56:	0.60	0.60	0.56	0.67	0.64	0.69	0.59	0.66	0.69	0.80	6.51
57:	0.82	0.75	0.46	0.53	0.76	0.59	0.72	0.60	0.52	0.59	6.32
58:	0.64	0.51	0.56	0.55	0.60	0.54	0.54	0.38	0.44	0.56	5.31
59:	0.42	0.49	0.35	0.34	0.35	0.43	0.44	0.31	0.27	0.25	3.64
60:	0.27	0.34	0.17	0.20	0.15	0.10	0.17	0.15	0.15	0.18	1.89
61:	0.16	0.13	0.17	0.18	0.11	0.12	0.11	0.09	0.09	0.09	1.24
62:	0.08	0.11	0.10	0.08	0.12	0.16	0.10	0.12	0.09	0.10	1.07
63:	0.12	0.11	0.06	0.14	0.09	0.09	0.09	0.11	0.08	0.10	0.99
64:	0.10	0.12	0.12	0.11	0.13	0.14	0.15	0.14	0.15	0.18	1.32
65:	0.18	0.17	0.15	0.18	0.16	0.17	0.18	0.16	0.16	0.16	1.67
66:	0.16	0.13	0.11	0.13	0.13	0.13	0.15	0.14	0.11	0.11	1.30
67:	0.10	0.10	0.09	0.10	0.10	0.11	0.10	0.10	0.10	0.11	1.00
68:	0.08	0.07	0.09	0.10	0.07	0.07	0.07	0.07	0.10	0.08	0.80
69:	0.07	0.07	0.04	0.04	0.05	0.05	0.07	0.05	0.03	0.07	0.53
70:	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.03	0.03	0.01	0.18
71:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.00	0.09
72:	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
73:	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.04
74:	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02

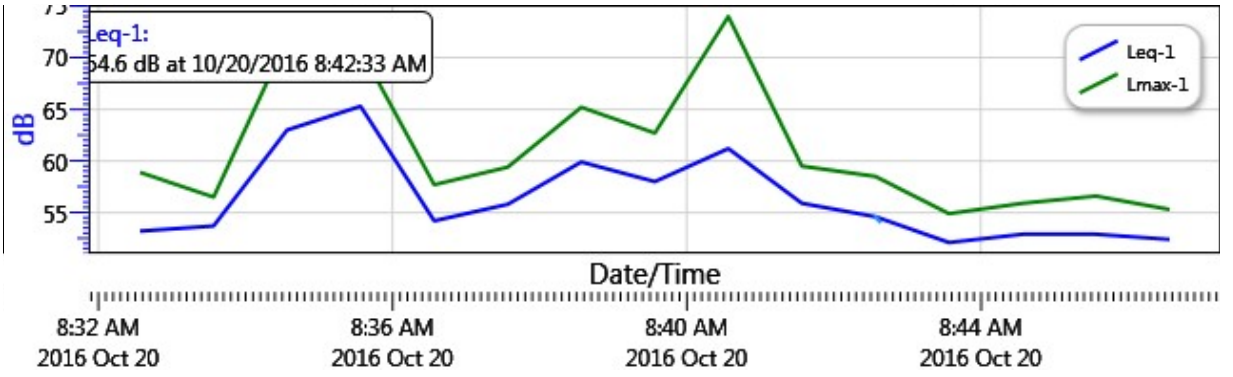
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		68.7	67.6	66.6	65.8	65.2	64.6	63.8	62.8	61.9
10%:	61.0	60.4	59.9	59.5	59.3	59.0	58.8	58.6	58.4	58.2
20%:	58.0	57.9	57.7	57.5	57.4	57.2	57.0	56.9	56.8	56.6
30%:	56.5	56.3	56.2	56.0	55.8	55.7	55.6	55.5	55.3	55.2
40%:	55.1	55.0	54.8	54.7	54.6	54.5	54.4	54.3	54.2	54.2
50%:	54.1	54.0	53.9	53.9	53.8	53.8	53.7	53.7	53.7	53.6

60%:	53.6	53.5	53.5	53.4	53.4	53.3	53.2	53.1	53.1	53.0
70%:	52.9	52.9	52.8	52.7	52.7	52.6	52.6	52.5	52.5	52.4
80%:	52.4	52.3	52.3	52.2	52.1	52.1	52.0	52.0	51.9	51.8
90%:	51.8	51.7	51.6	51.5	51.4	51.3	51.2	51.1	50.9	50.8
100%:	50.6									

Logged Data Chart

S050_BLH080004_25102016_110319: Logged Data Chart



Session Report

10/25/2016

Information Panel

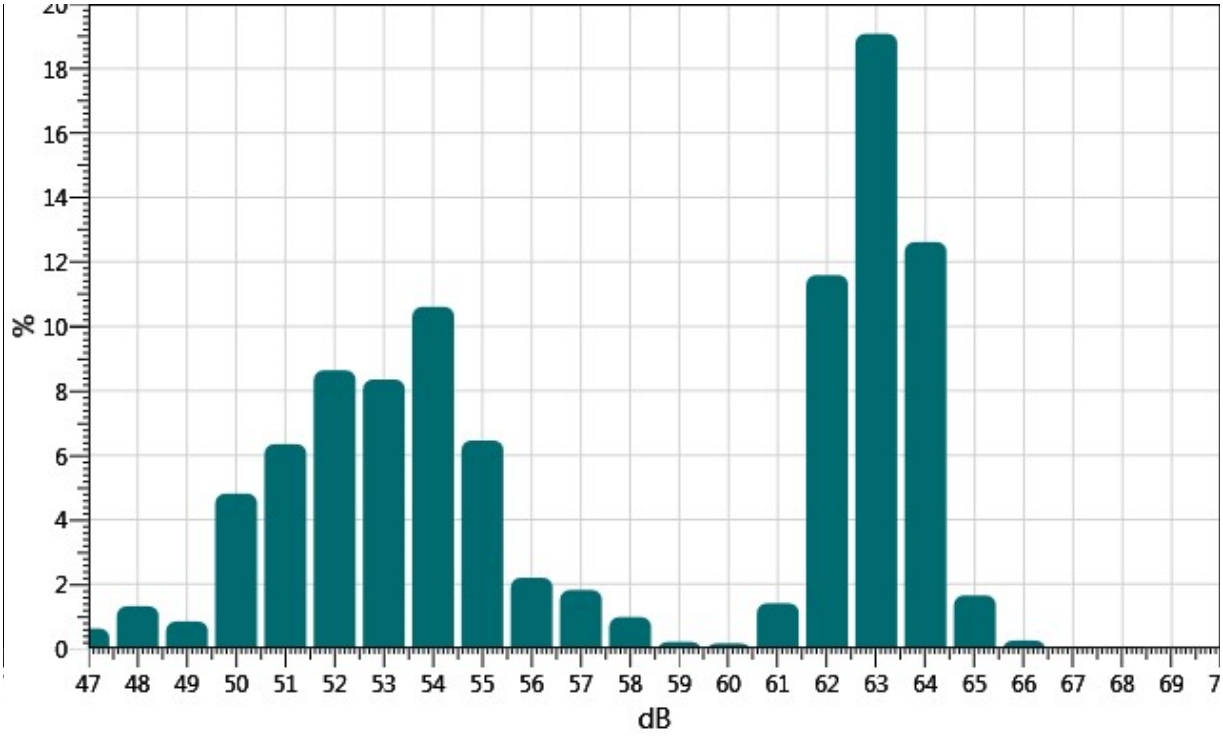
Name	S051_BLH080004_25102016_110319
Start Time	10/20/2016 8:51:04 AM
Stop Time	10/20/2016 9:06:04 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	60.7 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

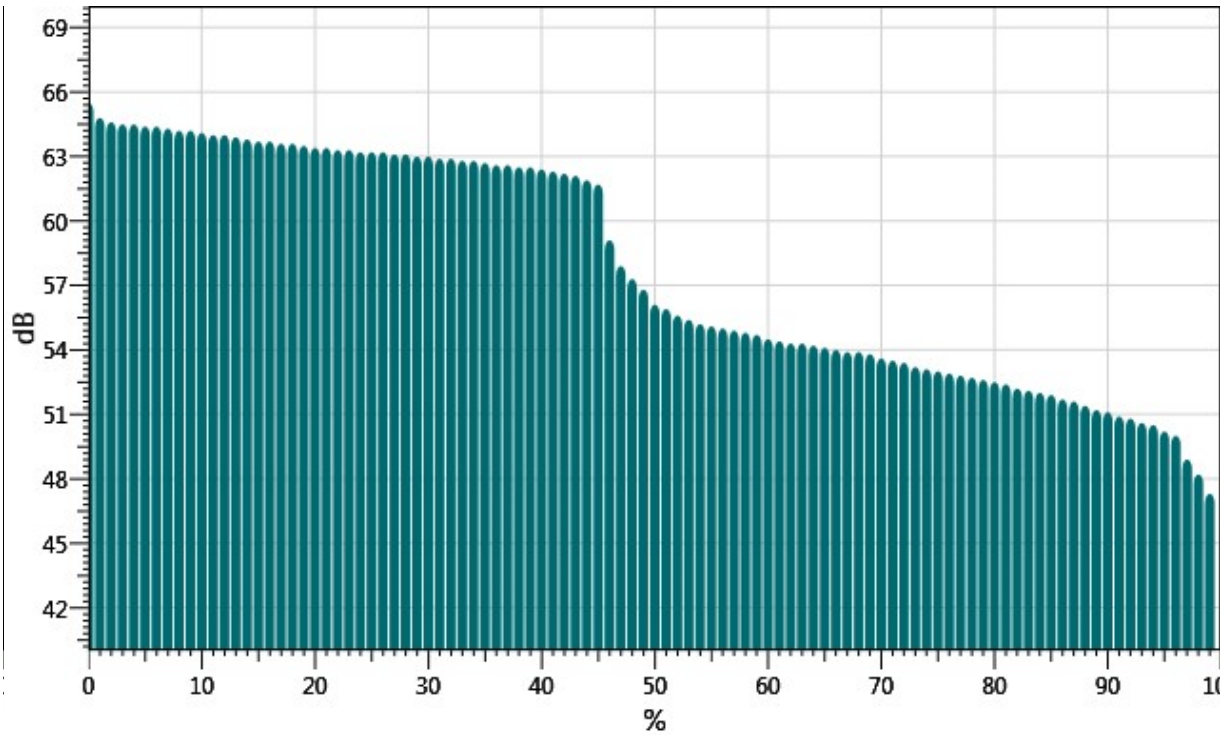
Statistics Chart

S051_BLH080004_25102016_110319: Statistics Chart



Exceedance Chart

S051_BLH080004_25102016_110319: Exceedance Chart



Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
47:	0.00	0.00	0.00	0.00	0.02	0.13	0.18	0.14	0.06	0.09	0.62
48:	0.10	0.11	0.07	0.11	0.13	0.17	0.26	0.19	0.10	0.06	1.31
49:	0.07	0.06	0.10	0.14	0.07	0.05	0.07	0.06	0.10	0.11	0.84
50:	0.20	0.36	0.41	0.40	0.36	0.43	0.56	0.63	0.80	0.67	4.81
51:	0.68	0.63	0.47	0.73	0.64	0.52	0.49	0.74	0.73	0.71	6.35
52:	0.62	0.87	0.91	0.68	0.95	0.99	1.05	0.90	0.80	0.86	8.63
53:	0.86	0.95	0.96	0.74	0.67	0.74	0.83	0.73	0.81	1.07	8.35
54:	1.48	1.40	0.95	1.22	1.13	1.10	0.95	0.81	0.73	0.84	10.60
55:	0.81	0.83	1.05	0.85	0.69	0.37	0.40	0.50	0.59	0.37	6.46
56:	0.36	0.32	0.36	0.18	0.16	0.18	0.13	0.14	0.14	0.23	2.20
57:	0.20	0.16	0.13	0.24	0.21	0.11	0.20	0.21	0.18	0.17	1.82
58:	0.17	0.20	0.13	0.11	0.04	0.07	0.07	0.08	0.07	0.02	0.97
59:	0.02	0.02	0.02	0.02	0.04	0.02	0.04	0.02	0.01	0.01	0.21
60:	0.02	0.02	0.02	0.05	0.03	0.01	0.00	0.00	0.01	0.00	0.16
61:	0.01	0.00	0.00	0.01	0.04	0.04	0.15	0.33	0.36	0.46	1.40
62:	0.45	0.56	0.55	0.74	1.09	1.84	1.50	1.86	1.39	1.62	11.59
63:	1.78	2.31	2.02	2.71	1.97	1.90	1.75	1.63	1.64	1.37	19.08
64:	1.39	1.53	1.40	1.44	1.63	2.16	1.67	0.73	0.40	0.26	12.62
65:	0.26	0.11	0.19	0.12	0.13	0.12	0.20	0.23	0.23	0.05	1.65
66:	0.06	0.09	0.02	0.04	0.01	0.01	0.01	0.00	0.01	0.00	0.25
67:	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.04
68:	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.04

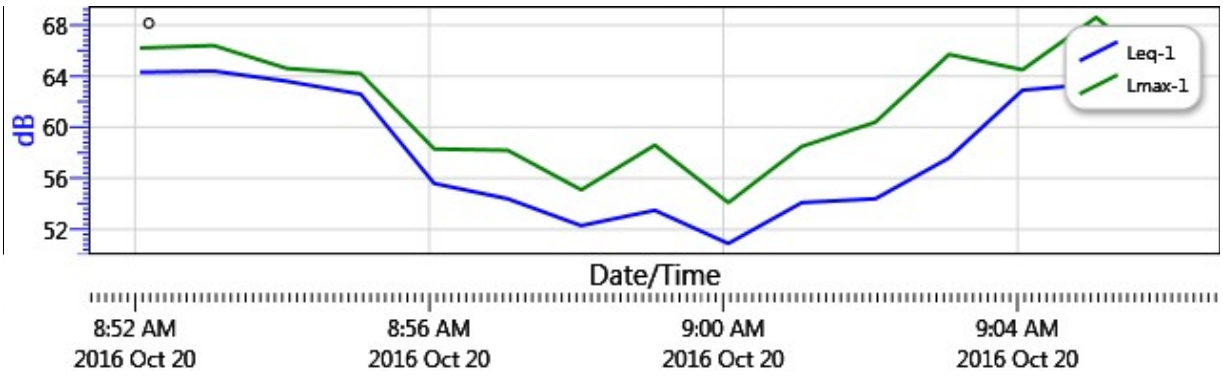
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		65.5	64.8	64.6	64.5	64.5	64.4	64.4	64.3	64.2
10%:	64.2	64.1	64.0	64.0	63.9	63.8	63.7	63.7	63.6	63.6
20%:	63.5	63.4	63.4	63.3	63.3	63.2	63.2	63.2	63.1	63.1
30%:	63.0	63.0	62.9	62.9	62.8	62.8	62.7	62.6	62.6	62.5
40%:	62.5	62.4	62.3	62.2	62.1	61.9	61.7	59.1	57.9	57.3
50%:	56.8	56.1	55.9	55.6	55.4	55.2	55.1	55.0	54.9	54.8
60%:	54.7	54.5	54.4	54.3	54.3	54.2	54.1	54.0	53.9	53.9
70%:	53.8	53.6	53.5	53.4	53.2	53.1	53.0	52.9	52.8	52.7
80%:	52.6	52.5	52.4	52.2	52.1	52.0	51.9	51.7	51.6	51.4

90%:	51.2	51.1	50.9	50.8	50.6	50.5	50.2	50.0	48.9	48.2
100%:	47.3									

Logged Data Chart

S051_BLH080004_25102016_110319: Logged Data Chart



Session Report

10/25/2016

Information Panel

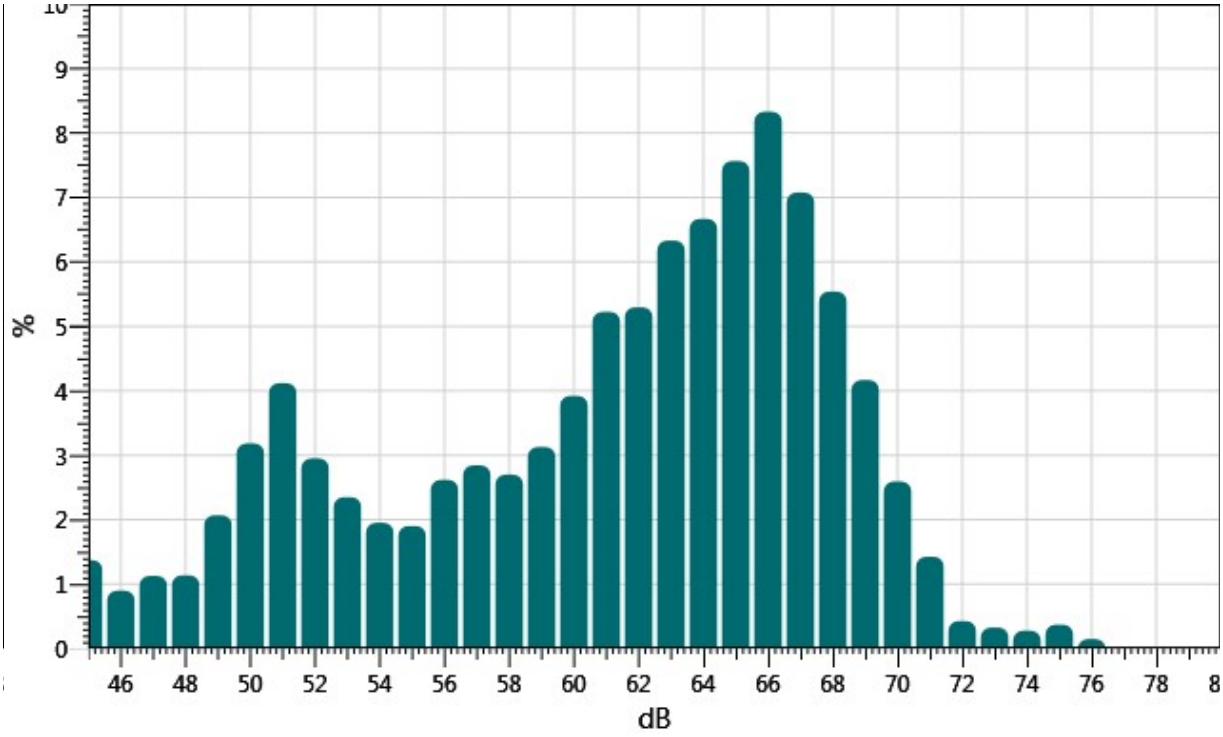
Name	S052_BLH080004_25102016_110320
Start Time	10/20/2016 9:42:11 AM
Stop Time	10/20/2016 9:57:11 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	65.2 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

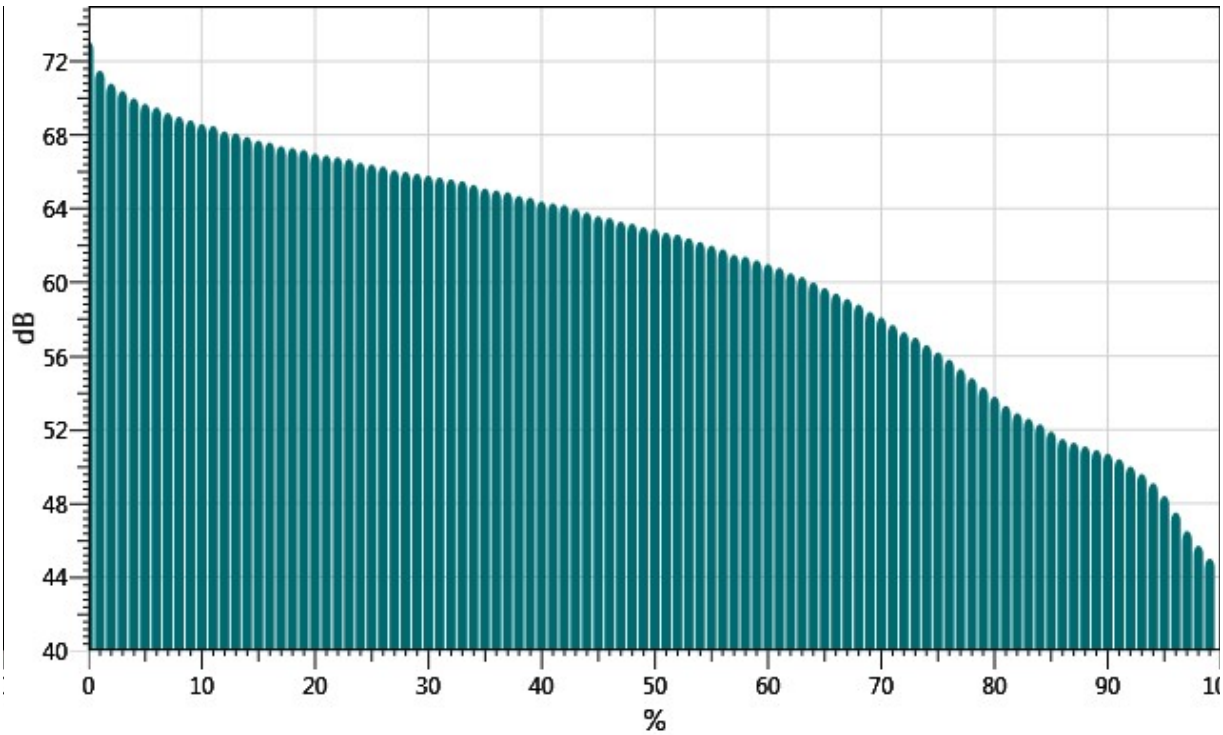
Statistics Chart

S052_BLH080004_25102016_110320: Statistics Chart



Exceedance Chart

S052_BLH080004_25102016_110320: Exceedance Chart



Statistics Table

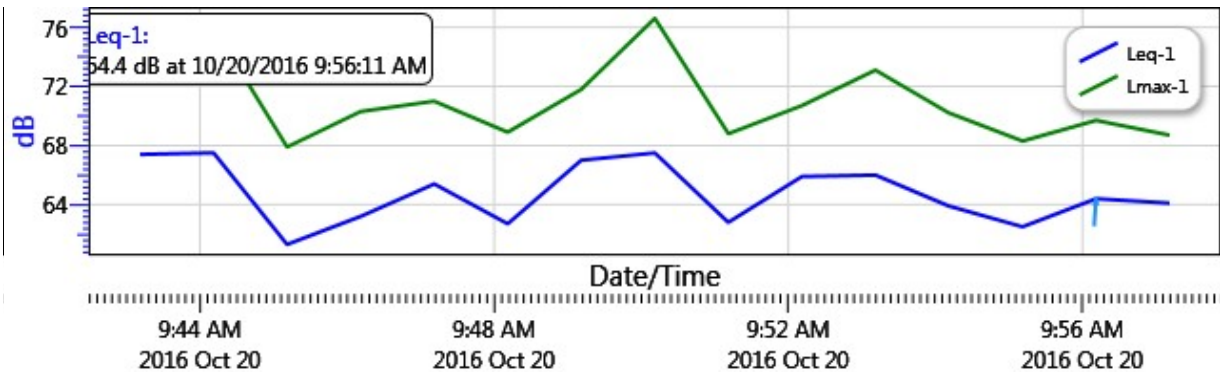
dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
45:	0.00	0.03	0.06	0.06	0.06	0.06	0.19	0.18	0.39	0.36	1.37
46:	0.17	0.09	0.08	0.08	0.09	0.11	0.07	0.06	0.08	0.08	0.90
47:	0.14	0.13	0.13	0.08	0.10	0.09	0.10	0.10	0.07	0.19	1.13
48:	0.13	0.12	0.06	0.14	0.11	0.12	0.12	0.07	0.12	0.14	1.14
49:	0.13	0.16	0.21	0.12	0.18	0.24	0.25	0.24	0.30	0.25	2.07
50:	0.27	0.21	0.24	0.22	0.26	0.22	0.46	0.36	0.32	0.63	3.18
51:	0.60	0.53	0.27	0.46	0.50	0.48	0.40	0.33	0.29	0.26	4.12
52:	0.25	0.22	0.24	0.32	0.30	0.31	0.43	0.39	0.26	0.24	2.95
53:	0.26	0.23	0.24	0.27	0.23	0.21	0.25	0.21	0.24	0.20	2.35
54:	0.19	0.21	0.12	0.20	0.21	0.20	0.24	0.23	0.16	0.19	1.95
55:	0.17	0.15	0.16	0.18	0.22	0.16	0.19	0.20	0.22	0.26	1.90
56:	0.27	0.32	0.27	0.26	0.30	0.24	0.24	0.23	0.23	0.26	2.62
57:	0.27	0.31	0.23	0.31	0.30	0.31	0.28	0.28	0.28	0.26	2.84
58:	0.25	0.23	0.27	0.32	0.26	0.30	0.27	0.26	0.27	0.28	2.70
59:	0.26	0.32	0.28	0.33	0.34	0.28	0.27	0.32	0.39	0.33	3.13
60:	0.33	0.36	0.31	0.39	0.40	0.44	0.45	0.43	0.38	0.43	3.92
61:	0.44	0.52	0.54	0.58	0.58	0.61	0.51	0.51	0.45	0.49	5.22
62:	0.40	0.49	0.51	0.43	0.47	0.57	0.62	0.57	0.56	0.67	5.30
63:	0.82	0.80	0.56	0.72	0.63	0.56	0.59	0.62	0.57	0.46	6.33
64:	0.52	0.65	0.67	0.77	0.67	0.69	0.63	0.70	0.64	0.72	6.67
65:	0.65	0.83	0.76	0.66	0.60	0.69	0.82	0.86	0.81	0.89	7.56
66:	1.06	1.10	0.57	0.69	0.66	0.77	0.87	0.92	0.98	0.72	8.33
67:	0.69	0.75	0.65	0.80	0.70	0.78	0.83	0.58	0.64	0.65	7.07
68:	0.60	0.54	0.59	0.64	0.46	0.43	0.59	0.51	0.61	0.56	5.54
69:	0.51	0.63	0.43	0.40	0.34	0.34	0.35	0.43	0.37	0.38	4.16
70:	0.38	0.27	0.24	0.32	0.32	0.23	0.20	0.16	0.18	0.28	2.59
71:	0.23	0.17	0.16	0.21	0.10	0.08	0.09	0.11	0.13	0.12	1.42
72:	0.09	0.06	0.04	0.02	0.03	0.04	0.03	0.05	0.03	0.04	0.43
73:	0.05	0.05	0.02	0.03	0.03	0.03	0.05	0.02	0.02	0.02	0.33
74:	0.02	0.02	0.02	0.02	0.02	0.02	0.04	0.05	0.03	0.03	0.28
75:	0.07	0.03	0.03	0.02	0.03	0.03	0.04	0.06	0.04	0.04	0.37
76:	0.02	0.01	0.03	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.15

Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		73.1	71.5	70.8	70.4	70.0	69.7	69.5	69.2	69.0
10%:	68.8	68.6	68.5	68.2	68.1	67.9	67.7	67.6	67.4	67.3
20%:	67.2	67.0	66.9	66.8	66.7	66.5	66.4	66.3	66.1	66.0
30%:	65.9	65.8	65.7	65.6	65.5	65.3	65.1	65.0	64.9	64.7
40%:	64.6	64.4	64.3	64.2	64.0	63.8	63.6	63.5	63.3	63.2
50%:	63.0	62.9	62.7	62.6	62.4	62.2	62.0	61.8	61.5	61.4
60%:	61.2	61.0	60.8	60.5	60.3	60.0	59.7	59.4	59.1	58.8
70%:	58.4	58.1	57.7	57.3	57.0	56.6	56.2	55.8	55.3	54.8
80%:	54.3	53.8	53.3	52.9	52.6	52.3	51.9	51.5	51.3	51.1
90%:	50.9	50.7	50.4	50.0	49.6	49.1	48.4	47.5	46.5	45.7
100%:	45.0									

Logged Data Chart

S052_BLH080004_25102016_110320: Logged Data Chart



Session Report

10/25/2016

Information Panel

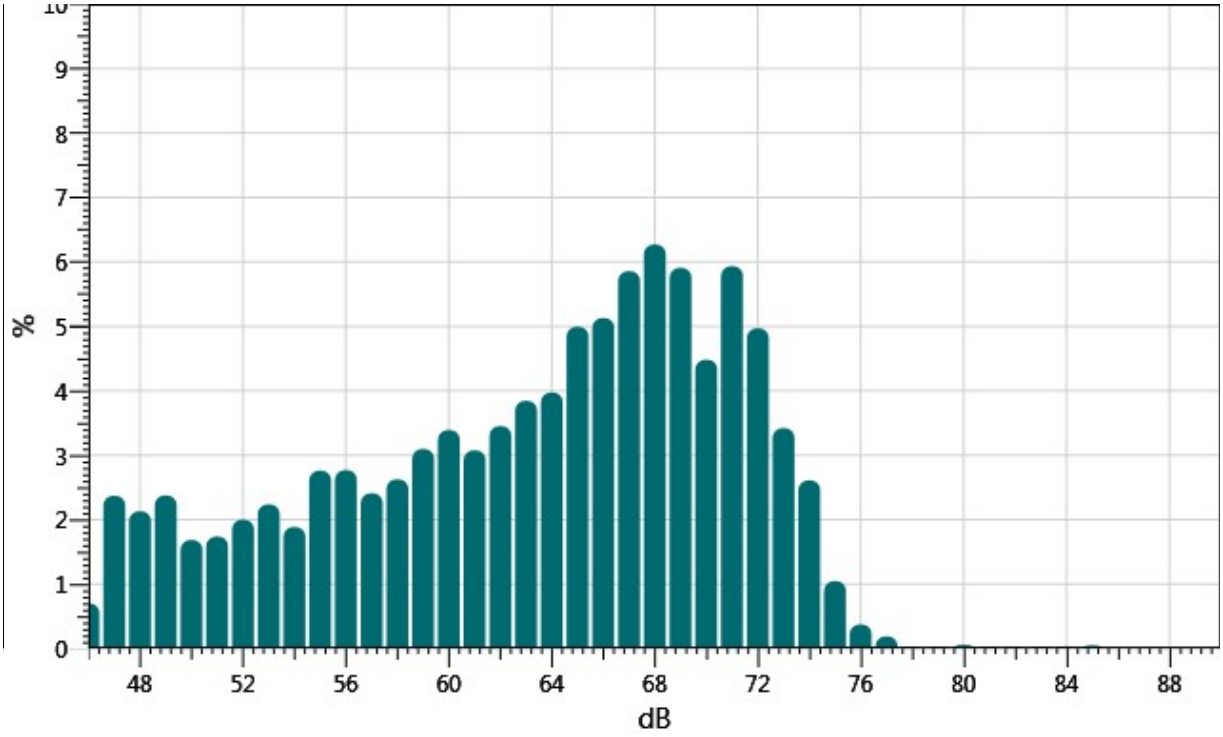
Name	S053_BLH080004_25102016_110321
Start Time	10/20/2016 10:02:19 AM
Stop Time	10/20/2016 10:17:19 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	68.4 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

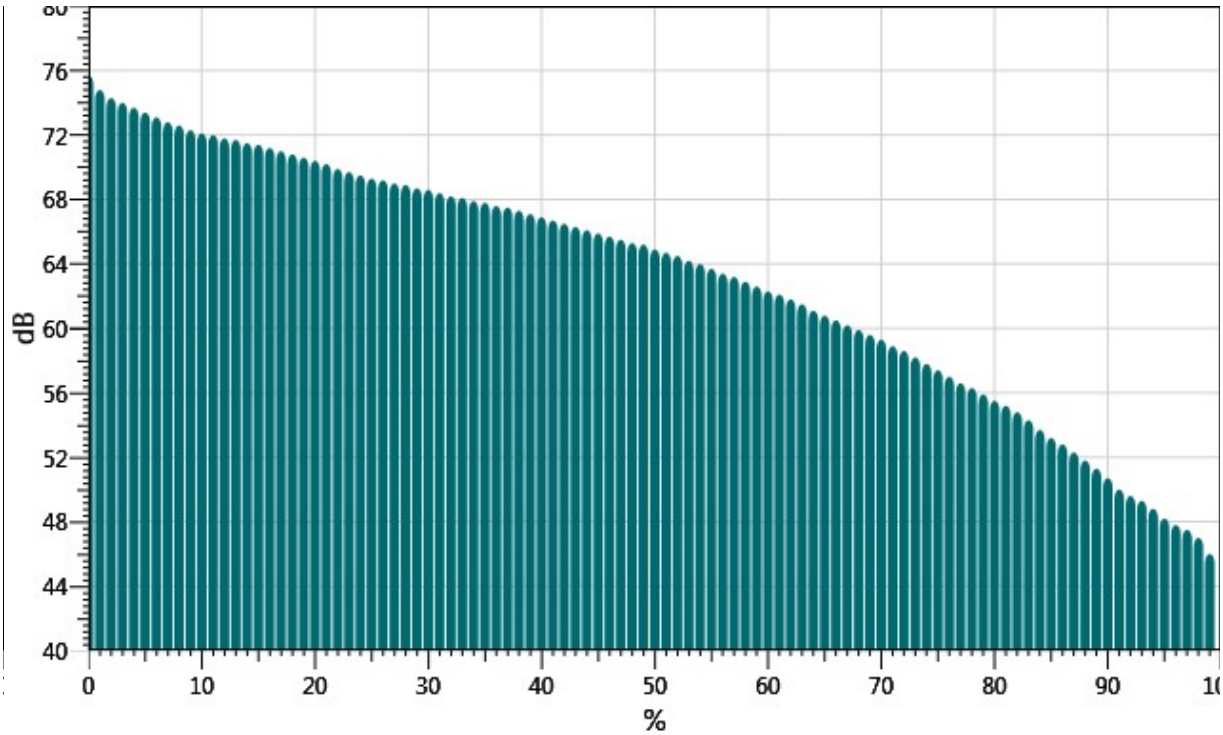
Statistics Chart

S053_BLH080004_25102016_110321: Statistics Chart



Exceedance Chart

S053_BLH080004_25102016_110321: Exceedance Chart



Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
46:	0.00	0.02	0.04	0.07	0.07	0.07	0.09	0.13	0.13	0.10	0.70
47:	0.15	0.24	0.25	0.17	0.17	0.27	0.20	0.26	0.30	0.35	2.37
48:	0.36	0.29	0.23	0.31	0.13	0.12	0.11	0.14	0.21	0.23	2.13
49:	0.14	0.15	0.16	0.22	0.26	0.22	0.36	0.43	0.25	0.19	2.38
50:	0.19	0.26	0.14	0.14	0.14	0.19	0.19	0.14	0.12	0.16	1.68
51:	0.15	0.16	0.10	0.18	0.15	0.13	0.18	0.26	0.18	0.24	1.74
52:	0.23	0.19	0.19	0.20	0.21	0.21	0.24	0.16	0.20	0.17	2.00
53:	0.19	0.26	0.26	0.30	0.26	0.20	0.16	0.16	0.21	0.22	2.24
54:	0.24	0.23	0.10	0.17	0.16	0.14	0.18	0.19	0.22	0.26	1.89
55:	0.25	0.26	0.31	0.30	0.29	0.26	0.32	0.27	0.26	0.25	2.76
56:	0.22	0.27	0.31	0.26	0.26	0.24	0.27	0.33	0.33	0.28	2.77
57:	0.30	0.29	0.22	0.25	0.23	0.26	0.23	0.22	0.22	0.21	2.41
58:	0.25	0.26	0.25	0.26	0.21	0.22	0.25	0.30	0.29	0.33	2.63
59:	0.31	0.32	0.28	0.31	0.30	0.31	0.30	0.34	0.32	0.31	3.10
60:	0.38	0.40	0.25	0.35	0.37	0.36	0.33	0.28	0.32	0.35	3.39
61:	0.36	0.31	0.30	0.27	0.28	0.28	0.34	0.28	0.30	0.35	3.07
62:	0.38	0.35	0.32	0.38	0.36	0.36	0.32	0.30	0.32	0.37	3.45
63:	0.43	0.36	0.27	0.47	0.46	0.43	0.39	0.36	0.36	0.32	3.84
64:	0.43	0.35	0.32	0.38	0.36	0.39	0.40	0.39	0.45	0.51	3.97
65:	0.49	0.45	0.48	0.55	0.51	0.64	0.49	0.45	0.46	0.45	4.99
66:	0.55	0.56	0.44	0.55	0.51	0.52	0.52	0.54	0.42	0.51	5.13
67:	0.48	0.52	0.63	0.52	0.56	0.57	0.59	0.74	0.67	0.57	5.86
68:	0.65	0.62	0.65	0.60	0.62	0.56	0.55	0.62	0.69	0.73	6.27
69:	0.87	0.79	0.56	0.67	0.64	0.54	0.54	0.42	0.45	0.43	5.91
70:	0.49	0.40	0.41	0.40	0.46	0.50	0.46	0.47	0.45	0.43	4.48
71:	0.45	0.45	0.51	0.60	0.58	0.59	0.76	0.64	0.69	0.66	5.93
72:	0.83	0.79	0.73	0.26	0.49	0.40	0.40	0.41	0.38	0.29	4.97
73:	0.33	0.34	0.28	0.31	0.35	0.39	0.41	0.42	0.29	0.30	3.42
74:	0.28	0.36	0.31	0.34	0.35	0.18	0.18	0.23	0.20	0.18	2.61
75:	0.15	0.17	0.18	0.09	0.09	0.07	0.08	0.07	0.06	0.08	1.05
76:	0.06	0.04	0.04	0.03	0.03	0.03	0.04	0.03	0.05	0.02	0.38
77:	0.02	0.04	0.03	0.04	0.03	0.01	0.00	0.00	0.01	0.00	0.19
78:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
79:	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03
80:	0.00	0.00	0.01	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.06

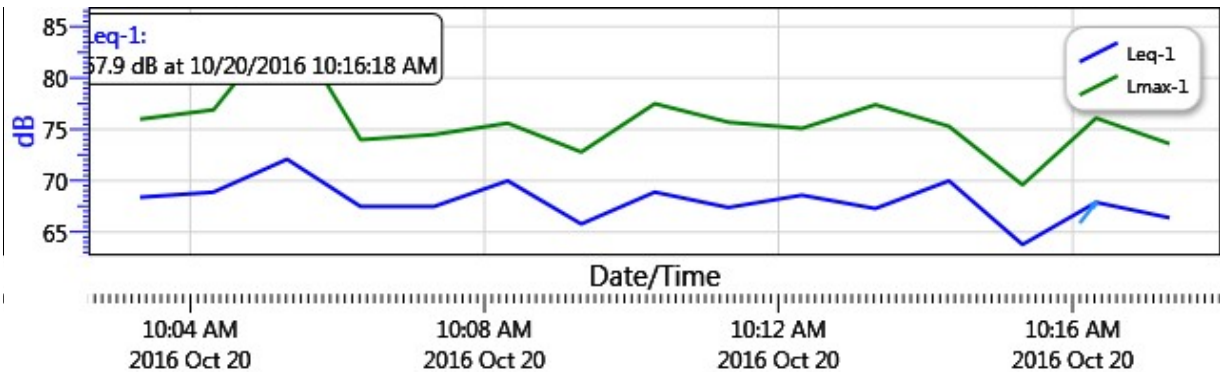
81:	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03
82:	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.03
83:	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
84:	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.04
85:	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.05

Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		75.7	74.8	74.3	74.0	73.7	73.4	73.1	72.8	72.6
10%:	72.3	72.1	72.0	71.8	71.7	71.5	71.4	71.2	71.0	70.8
20%:	70.6	70.4	70.2	69.9	69.7	69.5	69.3	69.2	69.0	68.9
30%:	68.7	68.6	68.4	68.2	68.1	67.9	67.8	67.6	67.5	67.3
40%:	67.1	66.9	66.7	66.5	66.3	66.1	65.9	65.7	65.5	65.3
50%:	65.2	64.9	64.7	64.5	64.2	64.0	63.7	63.4	63.2	62.9
60%:	62.6	62.3	62.1	61.8	61.5	61.1	60.8	60.5	60.2	59.9
70%:	59.6	59.3	58.9	58.6	58.2	57.8	57.4	57.0	56.6	56.3
80%:	55.9	55.5	55.2	54.8	54.3	53.7	53.2	52.8	52.3	51.8
90%:	51.3	50.7	50.0	49.6	49.3	48.8	48.2	47.8	47.5	47.0
100%:	46.0									

Logged Data Chart

S053_BLH080004_25102016_110321: Logged Data Chart



Session Report

10/25/2016

Information Panel

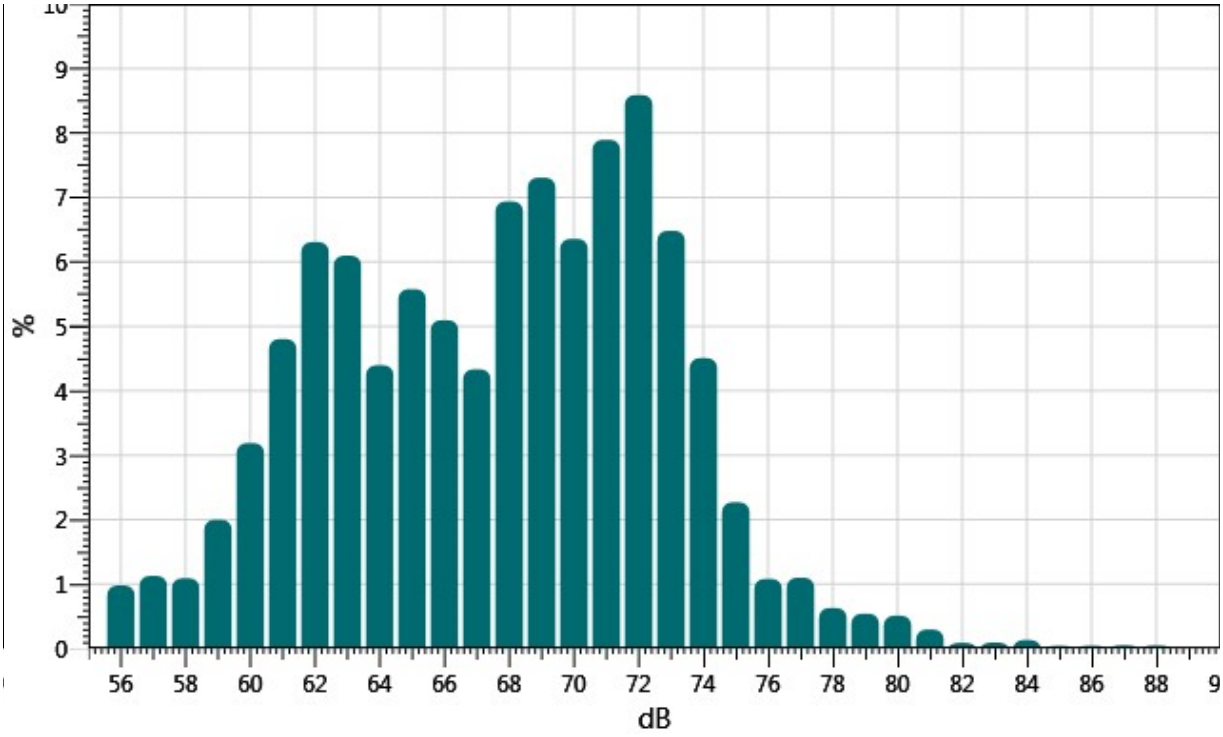
Name	S054_BLH080004_25102016_110322
Start Time	10/20/2016 10:23:38 AM
Stop Time	10/20/2016 10:38:38 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	71.3 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

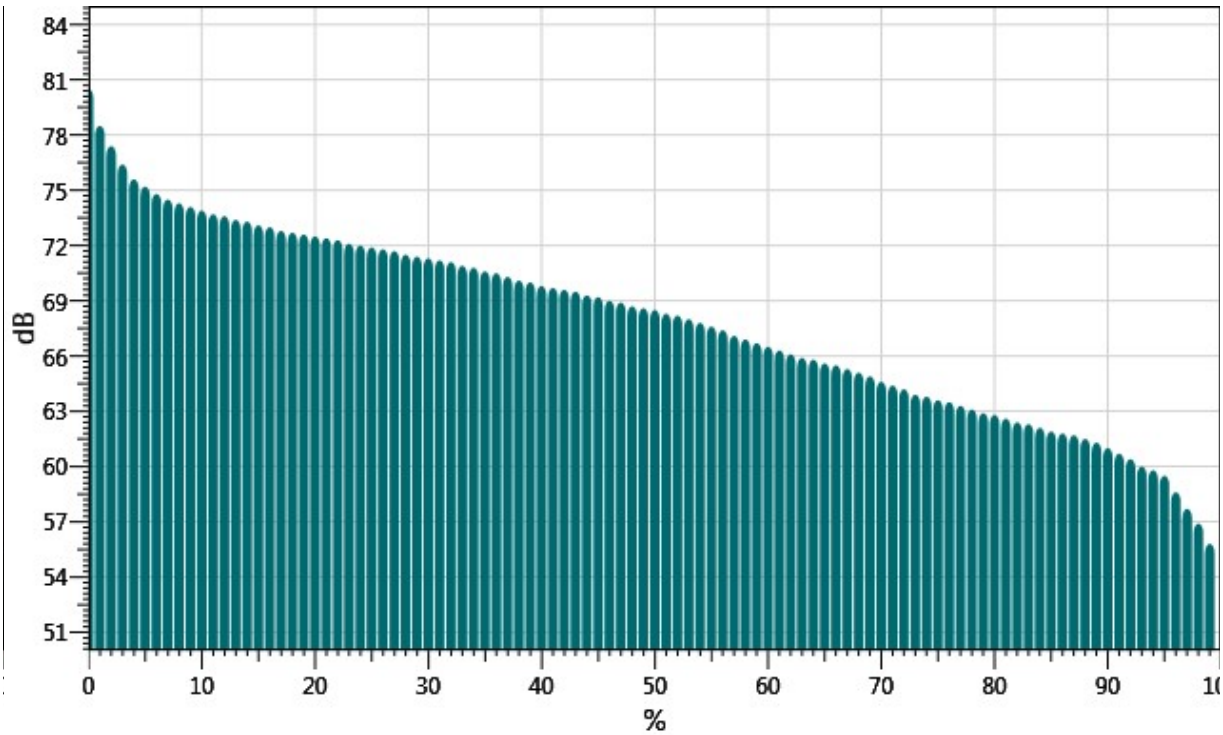
Statistics Chart

S054_BLH080004_25102016_110322: Statistics Chart



Exceedance Chart

S054_BLH080004_25102016_110322: Exceedance Chart



Statistics Table

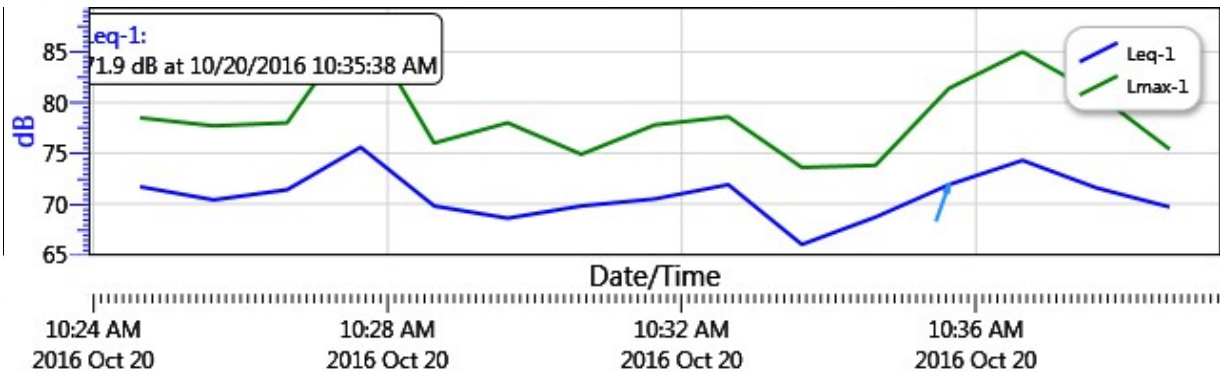
dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
55:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02
56:	0.03	0.06	0.08	0.15	0.09	0.06	0.08	0.11	0.16	0.15	0.98
57:	0.14	0.13	0.05	0.11	0.09	0.09	0.12	0.19	0.13	0.09	1.13
58:	0.16	0.10	0.12	0.14	0.12	0.10	0.10	0.09	0.09	0.08	1.09
59:	0.09	0.09	0.08	0.07	0.06	0.15	0.36	0.34	0.38	0.39	2.00
60:	0.45	0.44	0.22	0.23	0.35	0.32	0.27	0.27	0.32	0.31	3.19
61:	0.33	0.35	0.40	0.45	0.45	0.50	0.47	0.57	0.60	0.69	4.80
62:	0.86	0.81	0.62	0.49	0.64	0.57	0.66	0.56	0.57	0.53	6.31
63:	0.56	0.71	0.47	0.47	0.51	0.69	0.58	0.64	0.75	0.71	6.10
64:	0.56	0.44	0.40	0.41	0.38	0.40	0.39	0.44	0.41	0.57	4.40
65:	0.47	0.39	0.48	0.54	0.53	0.49	0.57	0.64	0.66	0.82	5.58
66:	0.60	0.52	0.42	0.48	0.52	0.50	0.54	0.50	0.46	0.56	5.10
67:	0.50	0.44	0.42	0.41	0.33	0.41	0.40	0.49	0.45	0.49	4.33
68:	0.60	0.62	0.62	0.55	0.67	0.78	0.77	0.90	0.71	0.72	6.94
69:	0.65	0.69	0.49	0.64	0.65	0.71	0.95	0.99	0.90	0.63	7.31
70:	0.65	0.60	0.64	0.67	0.54	0.55	0.64	0.62	0.65	0.79	6.36
71:	0.67	0.63	0.83	0.86	0.94	0.73	0.80	0.80	0.70	0.94	7.89
72:	0.88	1.03	0.77	0.55	0.84	0.86	0.92	0.97	1.04	0.73	8.59
73:	0.73	0.67	0.64	0.63	0.81	0.64	0.65	0.70	0.55	0.46	6.48
74:	0.48	0.57	0.50	0.59	0.55	0.47	0.40	0.30	0.28	0.37	4.51
75:	0.32	0.27	0.31	0.17	0.32	0.27	0.21	0.14	0.14	0.12	2.27
76:	0.14	0.11	0.10	0.10	0.12	0.10	0.13	0.11	0.10	0.08	1.08
77:	0.08	0.14	0.12	0.09	0.08	0.09	0.09	0.12	0.15	0.14	1.10
78:	0.09	0.10	0.07	0.05	0.07	0.08	0.06	0.03	0.04	0.03	0.63
79:	0.04	0.03	0.03	0.04	0.07	0.06	0.04	0.06	0.10	0.06	0.54
80:	0.05	0.05	0.05	0.06	0.04	0.05	0.07	0.05	0.05	0.05	0.51
81:	0.03	0.04	0.05	0.05	0.03	0.01	0.02	0.02	0.02	0.02	0.30
82:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
83:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
84:	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.13
85:	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.04
86:	0.00	0.01	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.05
87:	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.05
88:	0.01	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.05

Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		80.5	78.5	77.4	76.4	75.6	75.2	74.8	74.5	74.3
10%:	74.1	73.9	73.7	73.6	73.4	73.3	73.1	73.0	72.8	72.7
20%:	72.6	72.5	72.4	72.3	72.1	72.0	71.9	71.8	71.7	71.5
30%:	71.4	71.3	71.2	71.1	70.9	70.8	70.6	70.5	70.3	70.1
40%:	70.0	69.8	69.7	69.6	69.5	69.3	69.2	69.0	68.9	68.7
50%:	68.6	68.5	68.3	68.2	68.0	67.8	67.6	67.4	67.1	66.9
60%:	66.7	66.5	66.3	66.1	65.9	65.8	65.6	65.5	65.3	65.1
70%:	64.9	64.6	64.4	64.2	63.9	63.8	63.6	63.5	63.3	63.1
80%:	62.9	62.8	62.6	62.4	62.3	62.1	61.9	61.8	61.7	61.5
90%:	61.3	61.0	60.7	60.4	60.0	59.8	59.5	58.6	57.7	56.9
100%:	55.8									

Logged Data Chart

S054_BLH080004_25102016_110322: Logged Data Chart



Session Report

10/25/2016

Information Panel

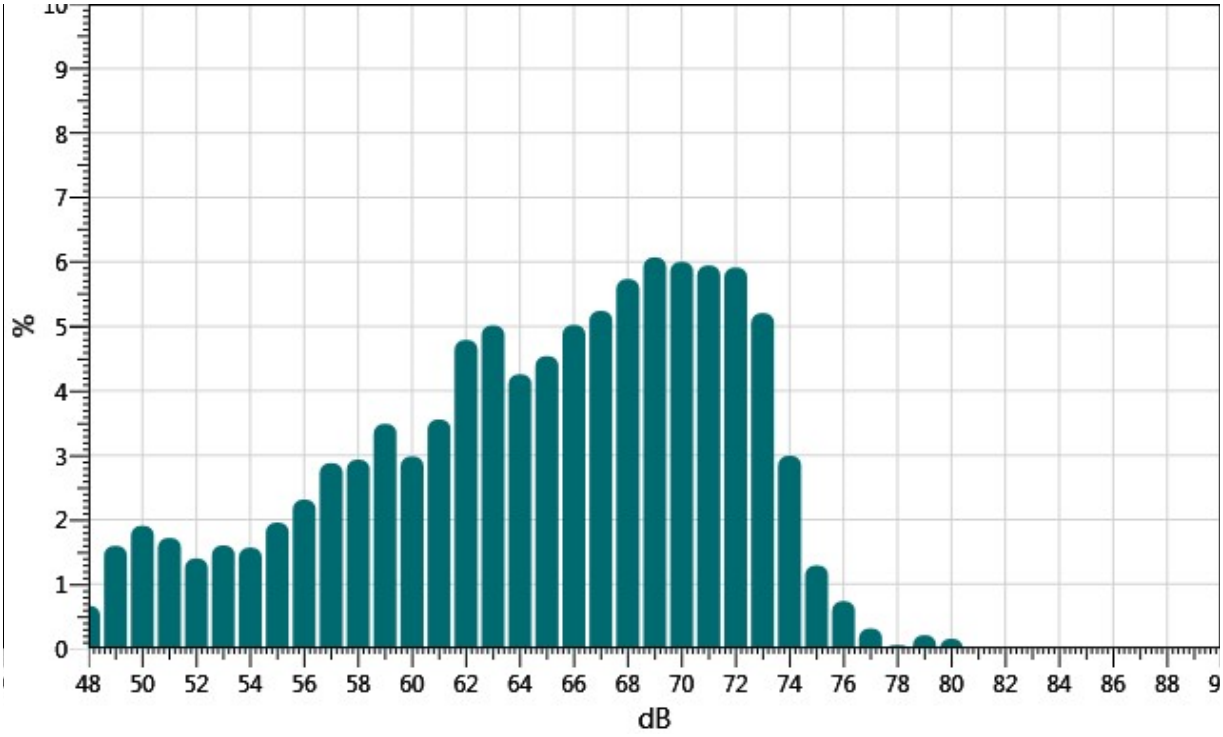
Name	S055_BLH080004_25102016_110323
Start Time	10/20/2016 10:43:54 AM
Stop Time	10/20/2016 10:58:54 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	68.9 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

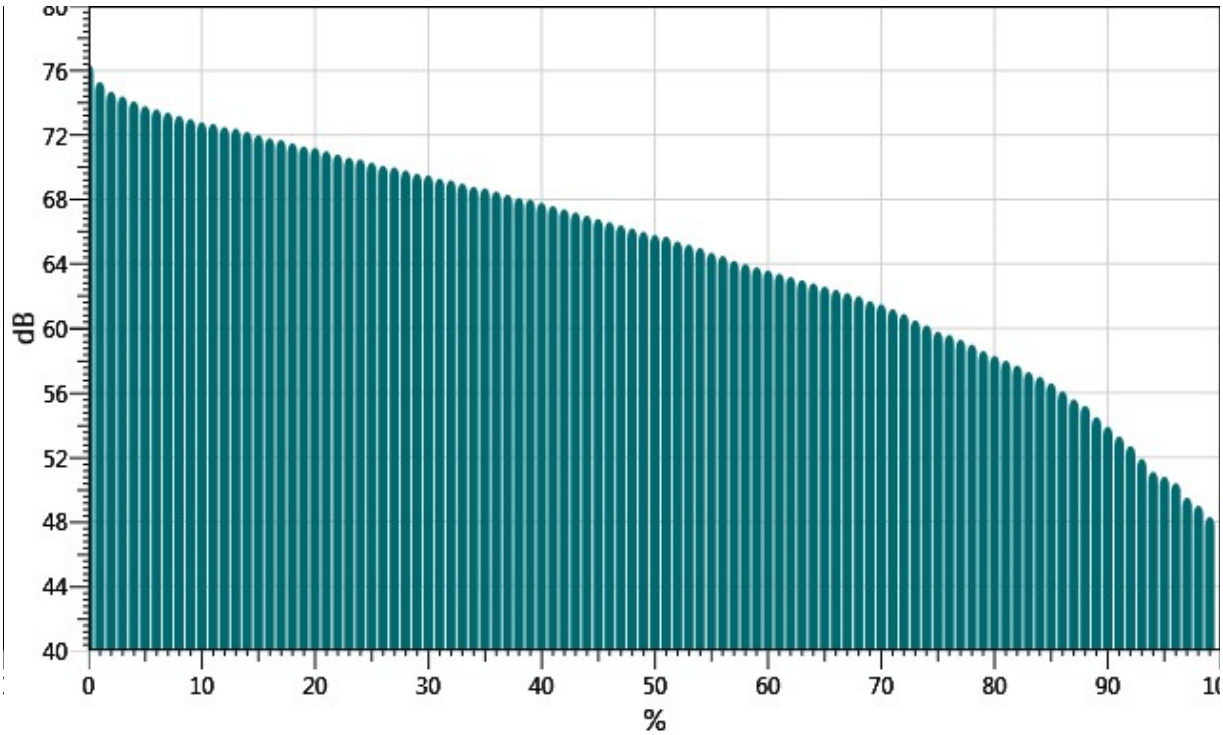
Statistics Chart

S055_BLH080004_25102016_110323: Statistics Chart



Exceedance Chart

S055_BLH080004_25102016_110323: Exceedance Chart



Statistics Table

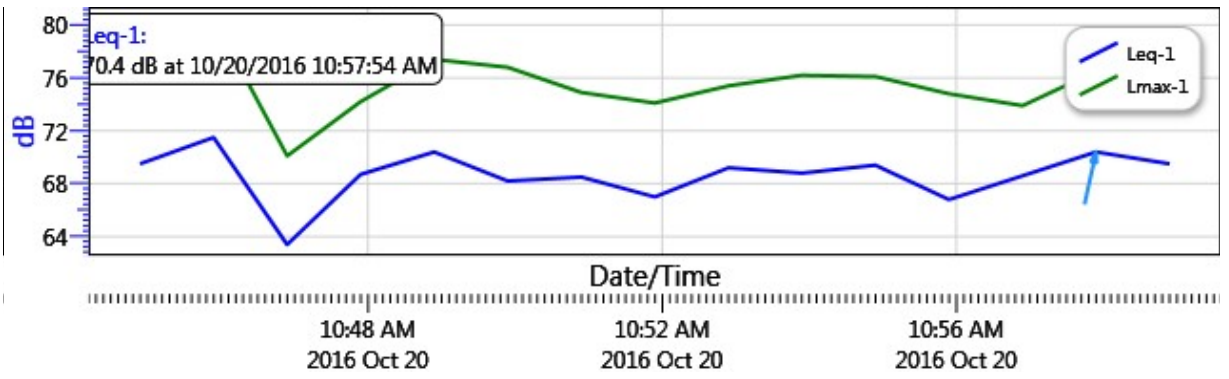
dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
48:	0.00	0.00	0.00	0.00	0.02	0.11	0.17	0.15	0.15	0.07	0.66
49:	0.29	0.31	0.21	0.14	0.13	0.13	0.19	0.07	0.04	0.07	1.59
50:	0.06	0.08	0.08	0.20	0.21	0.17	0.26	0.27	0.22	0.36	1.90
51:	0.36	0.37	0.18	0.18	0.11	0.08	0.11	0.08	0.10	0.16	1.72
52:	0.14	0.09	0.11	0.10	0.10	0.19	0.22	0.15	0.14	0.16	1.40
53:	0.19	0.20	0.18	0.14	0.16	0.14	0.13	0.18	0.15	0.13	1.60
54:	0.14	0.15	0.13	0.22	0.26	0.18	0.16	0.12	0.11	0.09	1.57
55:	0.14	0.11	0.15	0.21	0.29	0.23	0.20	0.22	0.21	0.18	1.95
56:	0.24	0.23	0.22	0.21	0.20	0.21	0.19	0.22	0.32	0.28	2.31
57:	0.29	0.32	0.19	0.23	0.30	0.24	0.29	0.32	0.34	0.36	2.88
58:	0.41	0.33	0.30	0.28	0.29	0.30	0.31	0.24	0.24	0.24	2.93
59:	0.24	0.32	0.32	0.27	0.34	0.36	0.36	0.45	0.44	0.39	3.49
60:	0.33	0.38	0.23	0.34	0.30	0.28	0.30	0.28	0.30	0.24	2.98
61:	0.31	0.34	0.31	0.38	0.33	0.31	0.33	0.44	0.39	0.41	3.55
62:	0.32	0.35	0.47	0.46	0.44	0.49	0.47	0.56	0.60	0.63	4.79
63:	0.56	0.51	0.40	0.56	0.54	0.52	0.57	0.44	0.46	0.44	5.01
64:	0.44	0.47	0.41	0.39	0.44	0.48	0.41	0.42	0.41	0.40	4.26
65:	0.40	0.41	0.39	0.40	0.43	0.44	0.50	0.44	0.57	0.57	4.54
66:	0.63	0.58	0.41	0.44	0.45	0.49	0.49	0.53	0.45	0.55	5.02
67:	0.49	0.58	0.60	0.55	0.47	0.53	0.56	0.51	0.46	0.49	5.24
68:	0.57	0.52	0.55	0.52	0.53	0.59	0.57	0.62	0.59	0.67	5.73
69:	0.70	0.67	0.46	0.55	0.61	0.61	0.65	0.63	0.61	0.57	6.07
70:	0.64	0.64	0.57	0.61	0.59	0.62	0.57	0.66	0.55	0.56	6.00
71:	0.57	0.53	0.57	0.60	0.57	0.60	0.68	0.67	0.61	0.54	5.94
72:	0.52	0.63	0.50	0.34	0.53	0.66	0.68	0.74	0.67	0.64	5.91
73:	0.70	0.58	0.56	0.48	0.57	0.55	0.43	0.47	0.43	0.43	5.20
74:	0.33	0.31	0.30	0.30	0.26	0.26	0.39	0.33	0.29	0.22	2.99
75:	0.21	0.24	0.16	0.09	0.10	0.08	0.10	0.11	0.10	0.10	1.29
76:	0.09	0.06	0.06	0.06	0.10	0.09	0.09	0.08	0.05	0.04	0.73
77:	0.05	0.07	0.09	0.05	0.02	0.01	0.00	0.01	0.01	0.01	0.31
78:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.05
79:	0.01	0.01	0.01	0.01	0.03	0.03	0.03	0.02	0.04	0.04	0.21
80:	0.04	0.03	0.03	0.01	0.01	0.02	0.00	0.00	0.00	0.00	0.15

Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		76.4	75.3	74.7	74.4	74.1	73.8	73.6	73.4	73.2
10%:	73.0	72.8	72.7	72.5	72.4	72.2	72.0	71.8	71.7	71.5
20%:	71.3	71.2	71.0	70.8	70.6	70.5	70.3	70.1	70.0	69.8
30%:	69.6	69.5	69.3	69.2	69.0	68.8	68.7	68.5	68.3	68.1
40%:	68.0	67.8	67.6	67.4	67.2	67.0	66.8	66.6	66.4	66.2
50%:	66.0	65.8	65.7	65.4	65.2	65.0	64.7	64.5	64.2	64.0
60%:	63.8	63.6	63.4	63.2	63.0	62.8	62.6	62.4	62.2	62.0
70%:	61.7	61.5	61.2	60.9	60.5	60.2	59.8	59.6	59.3	59.0
80%:	58.6	58.3	58.0	57.7	57.3	57.0	56.6	56.1	55.6	55.2
90%:	54.5	53.9	53.3	52.7	51.9	51.1	50.8	50.4	49.5	49.0
100%:	48.3									

Logged Data Chart

S055_BLH080004_25102016_110323: Logged Data Chart



Session Report

10/25/2016

Information Panel

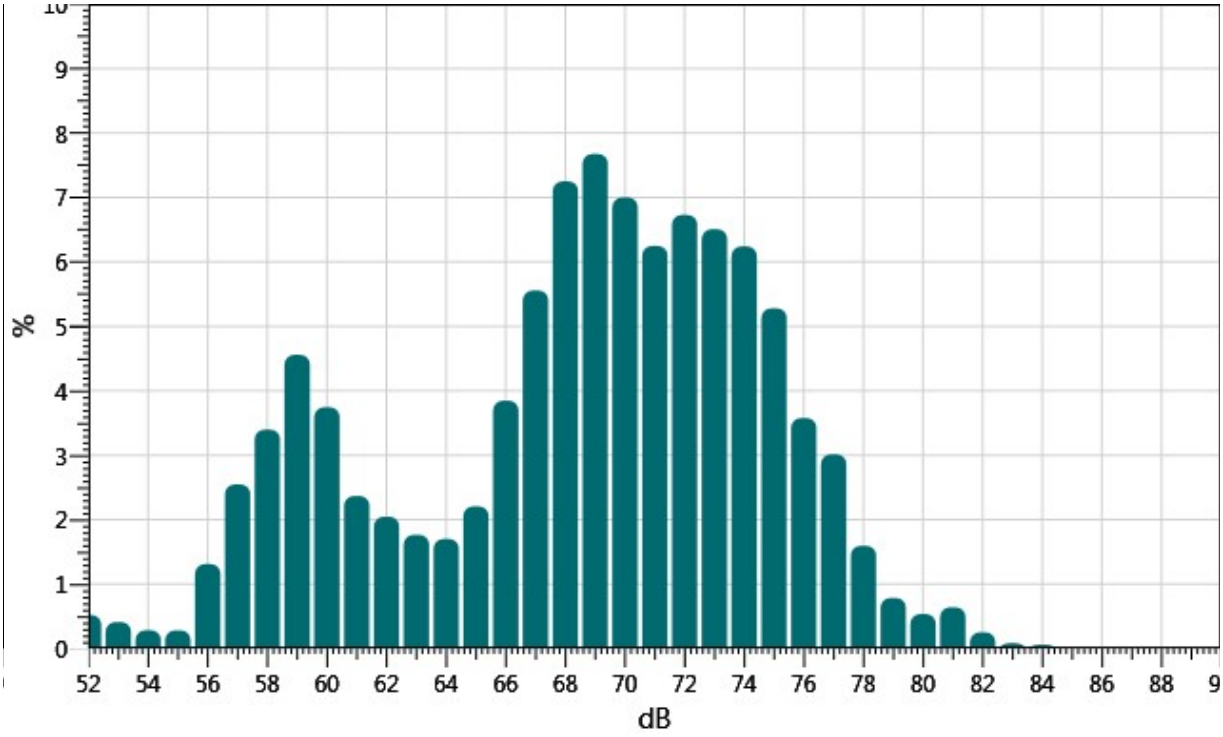
Name	S056_BLH080004_25102016_110324
Start Time	10/20/2016 11:03:31 AM
Stop Time	10/20/2016 11:18:31 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	72.3 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

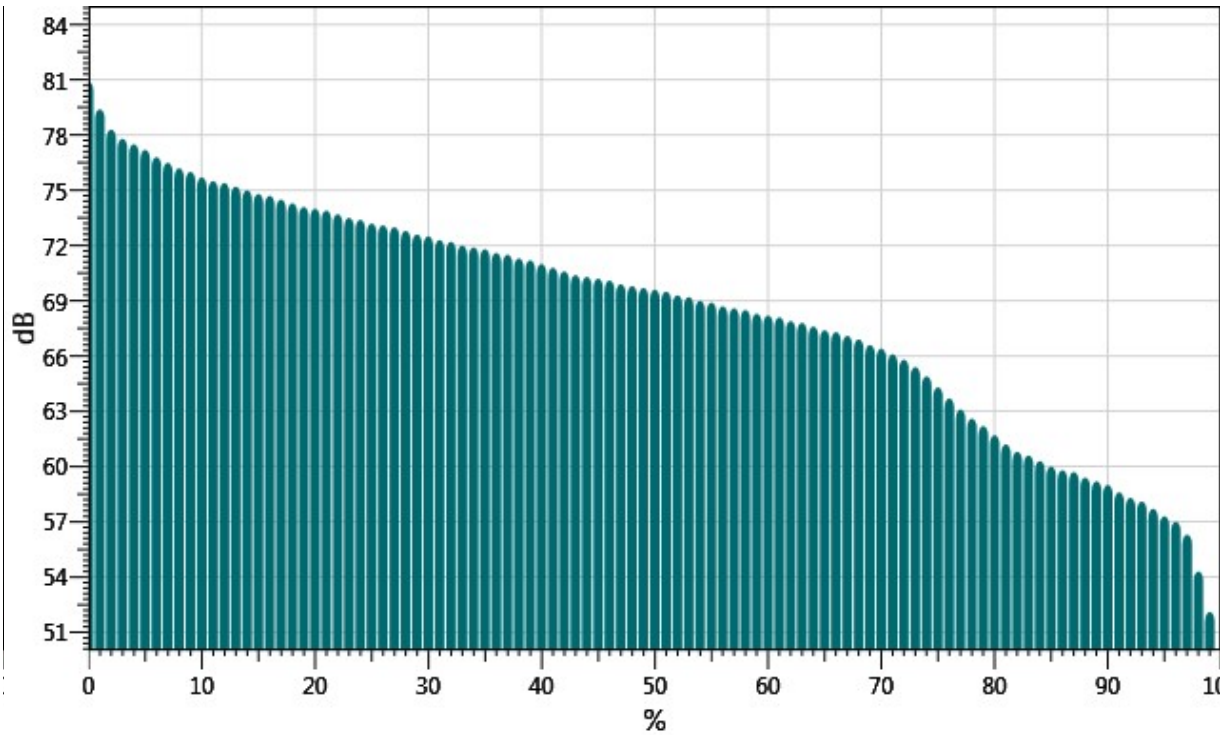
Statistics Chart

S056_BLH080004_25102016_110324: Statistics Chart



Exceedance Chart

S056_BLH080004_25102016_110324: Exceedance Chart



Statistics Table

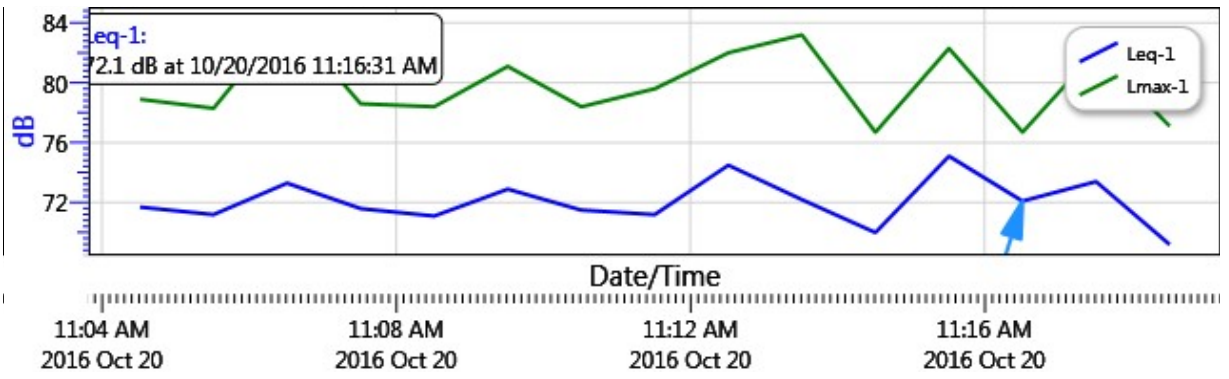
dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
52:	0.00	0.00	0.07	0.03	0.03	0.19	0.08	0.06	0.02	0.04	0.52
53:	0.13	0.08	0.05	0.02	0.02	0.02	0.02	0.04	0.01	0.03	0.41
54:	0.02	0.02	0.01	0.02	0.02	0.05	0.07	0.02	0.03	0.02	0.28
55:	0.02	0.02	0.01	0.03	0.02	0.03	0.06	0.02	0.04	0.03	0.28
56:	0.06	0.12	0.16	0.15	0.15	0.09	0.12	0.18	0.14	0.15	1.31
57:	0.16	0.24	0.22	0.35	0.34	0.26	0.25	0.27	0.26	0.21	2.55
58:	0.23	0.35	0.44	0.40	0.39	0.33	0.36	0.34	0.30	0.26	3.40
59:	0.24	0.31	0.48	0.53	0.35	0.41	0.39	0.54	0.71	0.60	4.56
60:	0.47	0.32	0.19	0.42	0.43	0.39	0.35	0.48	0.42	0.28	3.74
61:	0.26	0.25	0.26	0.22	0.23	0.25	0.20	0.21	0.27	0.22	2.37
62:	0.16	0.19	0.23	0.24	0.22	0.18	0.18	0.22	0.19	0.24	2.05
63:	0.22	0.22	0.18	0.19	0.17	0.17	0.17	0.15	0.14	0.15	1.76
64:	0.15	0.15	0.14	0.16	0.22	0.18	0.14	0.18	0.19	0.18	1.70
65:	0.20	0.16	0.16	0.19	0.21	0.23	0.21	0.23	0.30	0.32	2.21
66:	0.33	0.36	0.26	0.34	0.44	0.44	0.39	0.41	0.43	0.45	3.85
67:	0.49	0.46	0.48	0.54	0.63	0.66	0.53	0.51	0.56	0.70	5.56
68:	0.68	0.70	0.57	0.83	0.73	0.73	0.68	0.72	0.91	0.72	7.25
69:	0.68	0.75	0.57	0.55	0.69	0.93	0.96	0.88	0.93	0.74	7.67
70:	0.64	0.75	0.84	0.86	0.78	0.69	0.76	0.59	0.59	0.51	7.00
71:	0.48	0.51	0.49	0.55	0.75	0.73	0.76	0.59	0.59	0.79	6.25
72:	0.74	0.77	0.73	0.41	0.74	0.66	0.62	0.63	0.74	0.69	6.73
73:	0.57	0.67	0.57	0.77	0.69	0.69	0.65	0.58	0.69	0.62	6.51
74:	0.77	0.75	0.71	0.50	0.56	0.64	0.61	0.48	0.63	0.59	6.24
75:	0.54	0.43	0.65	0.39	0.61	0.62	0.63	0.55	0.50	0.36	5.28
76:	0.43	0.45	0.38	0.29	0.33	0.41	0.34	0.28	0.39	0.29	3.58
77:	0.33	0.29	0.32	0.26	0.28	0.36	0.33	0.32	0.28	0.24	3.01
78:	0.23	0.24	0.24	0.15	0.14	0.20	0.10	0.13	0.09	0.08	1.59
79:	0.07	0.07	0.06	0.07	0.09	0.09	0.10	0.09	0.09	0.07	0.78
80:	0.08	0.06	0.05	0.06	0.04	0.06	0.05	0.05	0.05	0.04	0.53
81:	0.07	0.07	0.06	0.04	0.05	0.04	0.05	0.07	0.09	0.11	0.64
82:	0.08	0.03	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.25
83:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.08
84:	0.01	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06

Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		80.9	79.4	78.3	77.8	77.5	77.2	76.8	76.5	76.2
10%:	76.0	75.7	75.5	75.4	75.2	75.0	74.8	74.7	74.5	74.3
20%:	74.1	74.0	73.9	73.7	73.5	73.4	73.2	73.1	73.0	72.8
30%:	72.6	72.5	72.3	72.2	72.0	71.9	71.8	71.6	71.5	71.3
40%:	71.2	71.0	70.8	70.6	70.4	70.3	70.2	70.1	69.9	69.8
50%:	69.7	69.6	69.5	69.3	69.2	69.0	68.9	68.7	68.6	68.5
60%:	68.3	68.2	68.1	67.9	67.8	67.6	67.4	67.3	67.1	66.9
70%:	66.6	66.4	66.1	65.8	65.4	64.9	64.3	63.7	63.1	62.6
80%:	62.2	61.7	61.2	60.8	60.6	60.3	60.0	59.8	59.7	59.4
90%:	59.2	59.0	58.6	58.3	58.1	57.7	57.3	57.0	56.3	54.3
100%:	52.1									

Logged Data Chart

S056_BLH080004_25102016_110324: Logged Data Chart



Session Report

10/25/2016

Information Panel

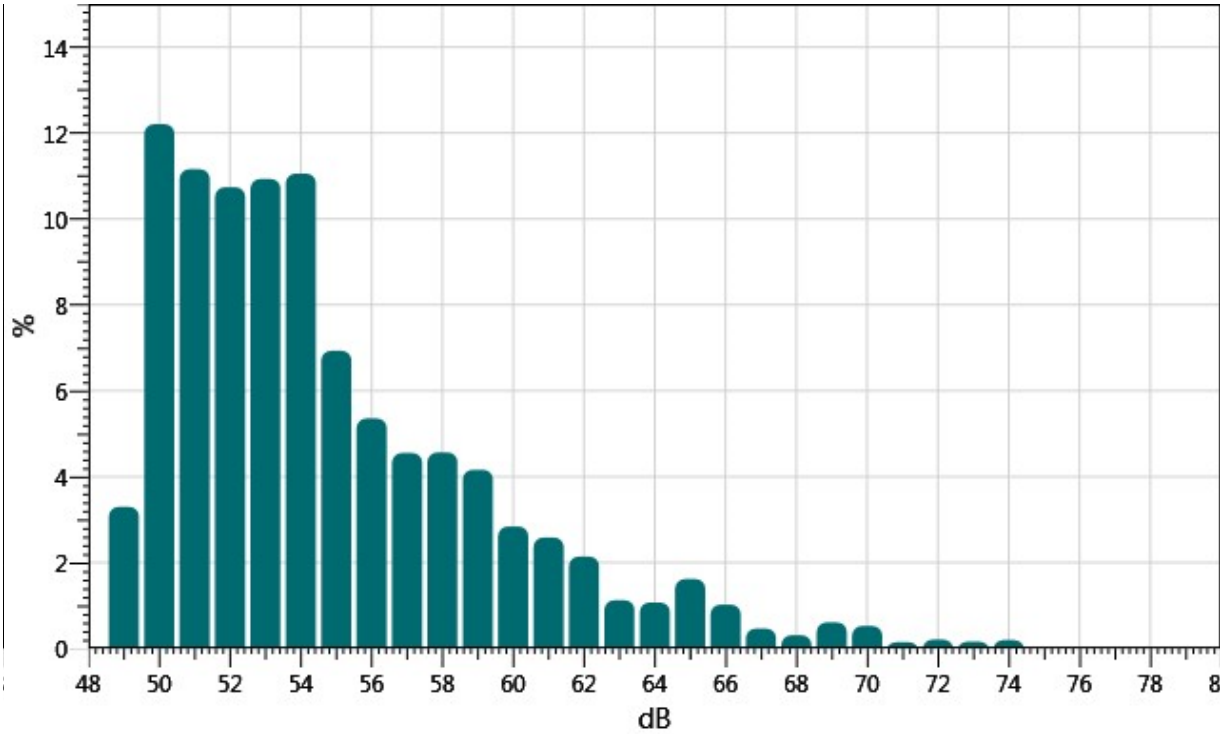
Name	S057_BLH080004_25102016_110324
Start Time	10/20/2016 11:27:36 AM
Stop Time	10/20/2016 11:42:36 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	59.1 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

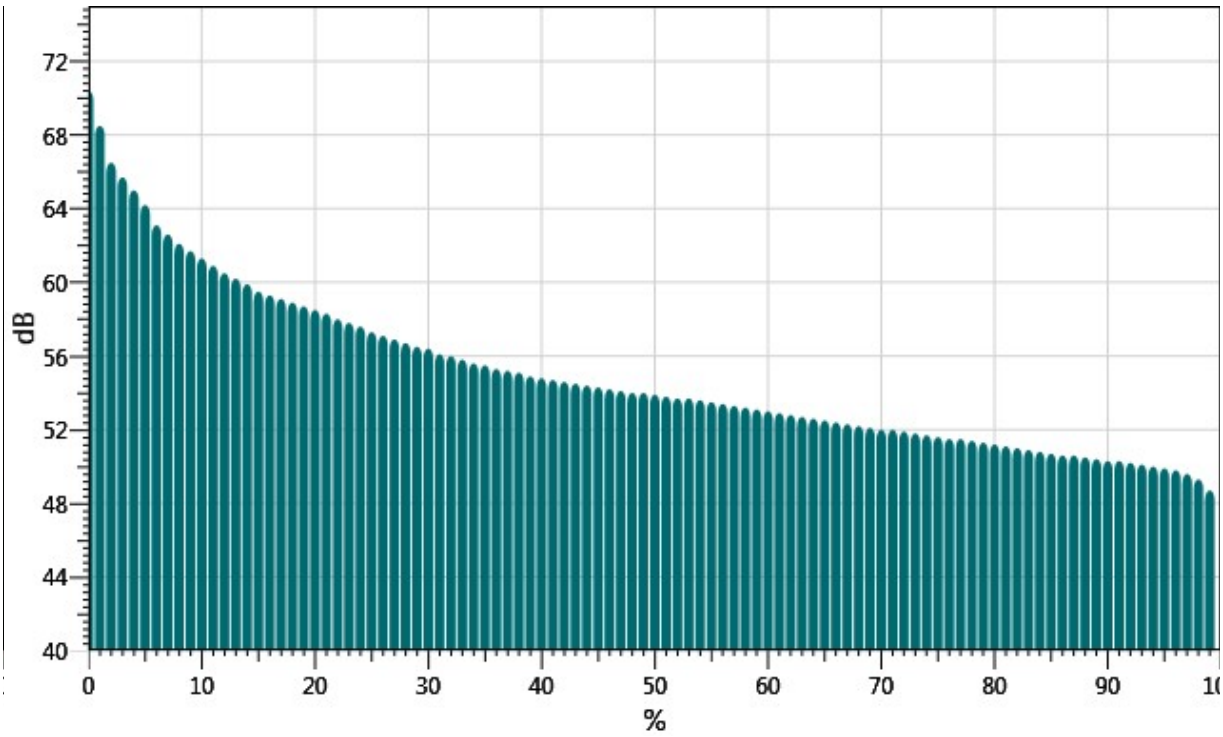
Statistics Chart

S057_BLH080004_25102016_110324: Statistics Chart



Exceedance Chart

S057_BLH080004_25102016_110324: Exceedance Chart



Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
48:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02
49:	0.10	0.32	0.22	0.24	0.23	0.21	0.49	0.57	0.41	0.52	3.30
50:	0.79	1.00	1.22	1.55	1.77	1.07	1.21	1.21	1.30	1.09	12.20
51:	1.11	1.16	0.78	1.27	1.11	0.97	1.09	1.16	1.19	1.32	11.16
52:	1.22	1.18	1.32	1.24	1.06	1.04	0.94	0.85	0.92	0.96	10.74
53:	0.98	1.01	1.04	1.00	0.94	1.05	1.03	1.28	1.32	1.29	10.93
54:	1.34	1.39	0.97	1.31	1.18	1.08	1.03	0.87	0.92	0.95	11.05
55:	0.83	0.68	0.74	0.74	0.69	0.62	0.63	0.70	0.64	0.65	6.93
56:	0.57	0.56	0.56	0.51	0.43	0.55	0.57	0.51	0.53	0.57	5.36
57:	0.60	0.52	0.37	0.44	0.43	0.38	0.44	0.41	0.51	0.47	4.55
58:	0.41	0.36	0.43	0.48	0.54	0.52	0.45	0.41	0.52	0.46	4.56
59:	0.45	0.55	0.57	0.48	0.43	0.44	0.31	0.34	0.29	0.31	4.16
60:	0.35	0.35	0.22	0.28	0.33	0.28	0.21	0.26	0.32	0.23	2.84
61:	0.22	0.25	0.28	0.26	0.27	0.27	0.25	0.27	0.26	0.26	2.59
62:	0.26	0.20	0.20	0.16	0.22	0.27	0.26	0.21	0.16	0.20	2.14
63:	0.16	0.21	0.10	0.11	0.09	0.08	0.09	0.09	0.07	0.11	1.12
64:	0.10	0.08	0.08	0.10	0.10	0.09	0.08	0.11	0.14	0.19	1.07
65:	0.13	0.15	0.16	0.16	0.15	0.16	0.13	0.12	0.19	0.27	1.62
66:	0.09	0.11	0.08	0.13	0.11	0.07	0.08	0.10	0.10	0.15	1.02
67:	0.09	0.05	0.07	0.08	0.07	0.03	0.02	0.02	0.02	0.02	0.47
68:	0.03	0.02	0.03	0.02	0.02	0.03	0.03	0.04	0.05	0.04	0.31
69:	0.04	0.05	0.04	0.06	0.05	0.14	0.06	0.07	0.05	0.05	0.61
70:	0.03	0.05	0.05	0.03	0.04	0.14	0.11	0.06	0.01	0.01	0.52
71:	0.02	0.02	0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.02	0.15
72:	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.05	0.03	0.03	0.21
73:	0.03	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.16
74:	0.01	0.01	0.03	0.07	0.08	0.00	0.00	0.00	0.00	0.00	0.20

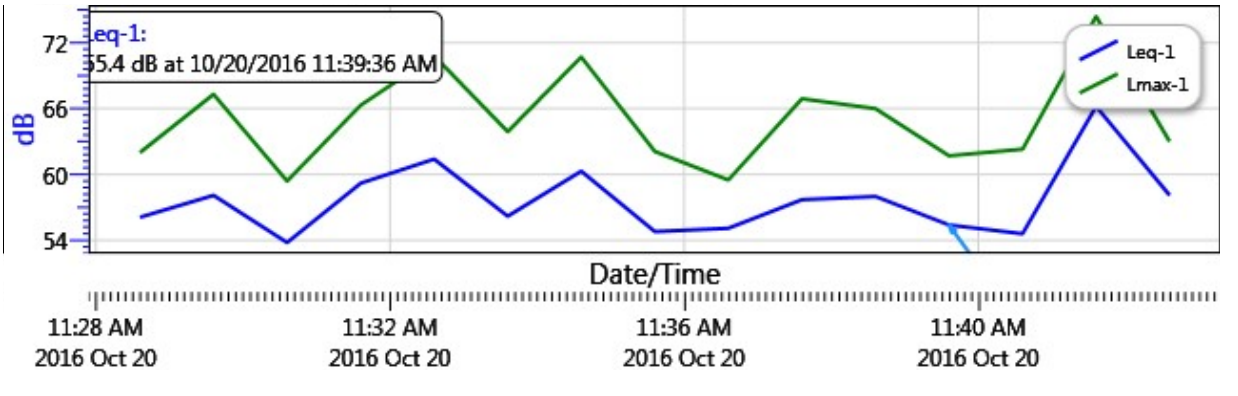
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		70.4	68.5	66.5	65.7	65.0	64.2	63.1	62.6	62.1
10%:	61.7	61.3	60.9	60.5	60.2	59.9	59.5	59.3	59.1	58.9
20%:	58.7	58.5	58.3	58.0	57.8	57.6	57.3	57.1	56.9	56.7
30%:	56.5	56.4	56.1	56.0	55.8	55.6	55.5	55.3	55.2	55.1

40%:	54.9	54.8	54.7	54.6	54.5	54.4	54.3	54.2	54.1	54.0
50%:	54.0	53.9	53.8	53.7	53.7	53.6	53.5	53.4	53.3	53.2
60%:	53.1	53.0	52.9	52.8	52.7	52.6	52.5	52.4	52.3	52.2
70%:	52.1	52.0	52.0	51.9	51.8	51.7	51.6	51.5	51.5	51.4
80%:	51.3	51.2	51.1	51.0	50.9	50.8	50.7	50.6	50.6	50.5
90%:	50.4	50.3	50.3	50.2	50.1	50.0	49.9	49.8	49.6	49.3
100%:	48.7									

Logged Data Chart

S057_BLH080004_25102016_110324: Logged Data Chart



Session Report

10/25/2016

Information Panel

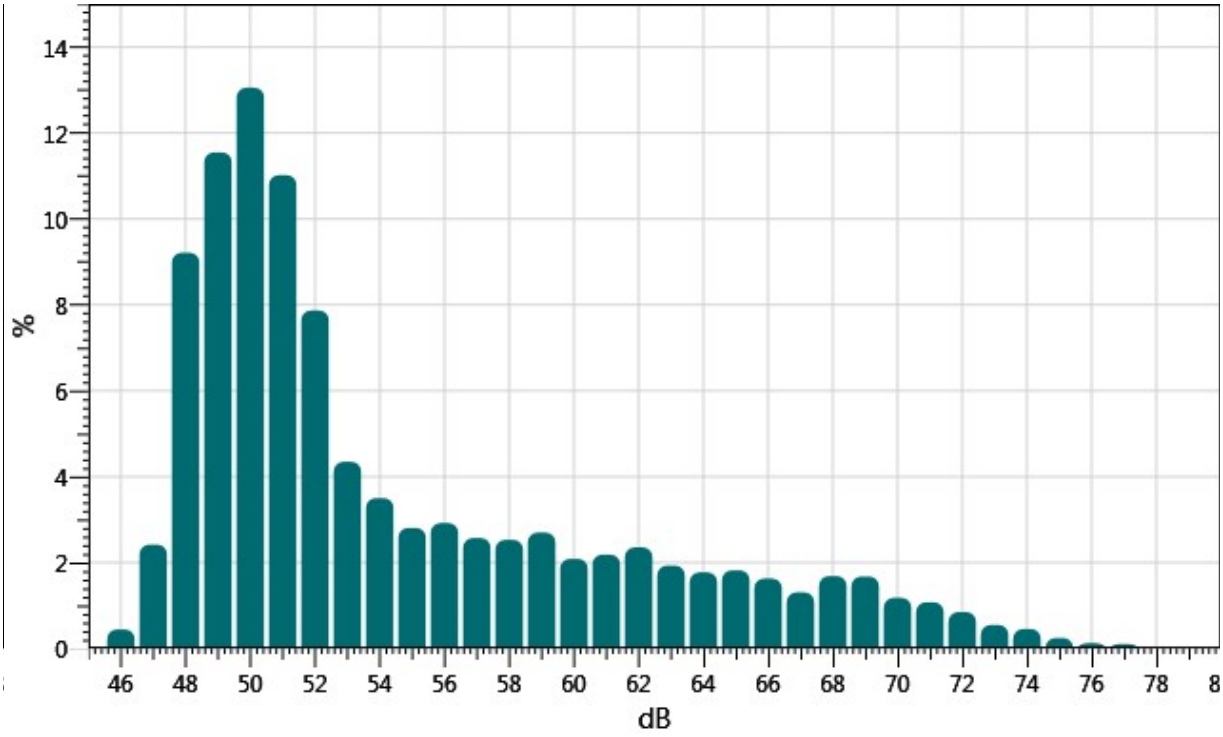
Name	S058_BLH080004_25102016_110325
Start Time	10/20/2016 11:46:32 AM
Stop Time	10/20/2016 12:01:32 PM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	62.2 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

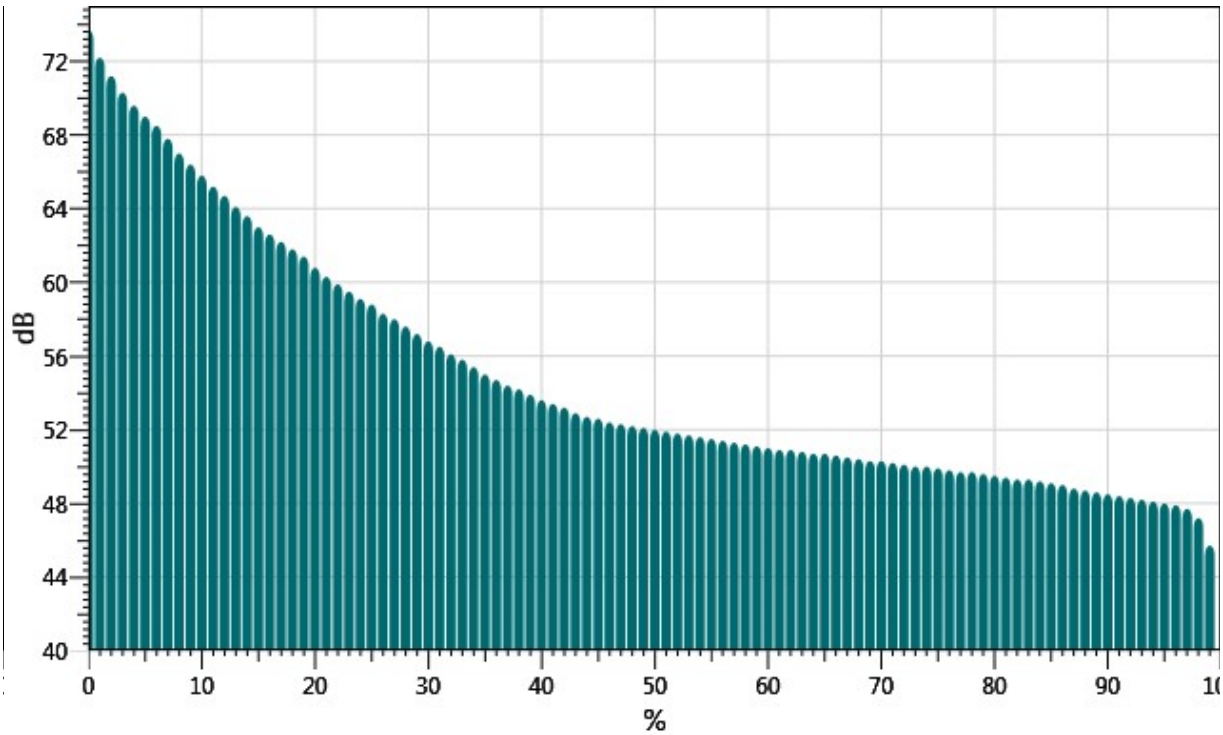
Statistics Chart

S058_BLH080004_25102016_110325: Statistics Chart



Exceedance Chart

S058_BLH080004_25102016_110325: Exceedance Chart



Statistics Table

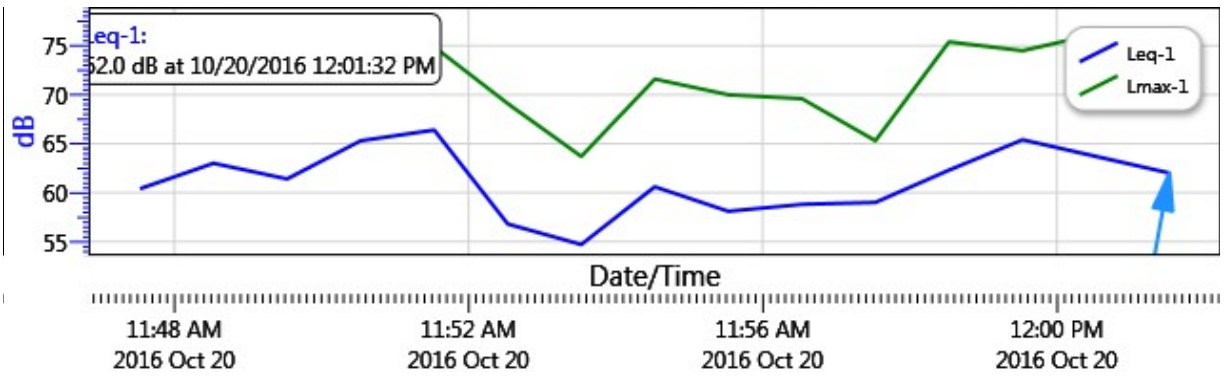
dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
45:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02
46:	0.02	0.03	0.04	0.02	0.01	0.02	0.08	0.06	0.06	0.12	0.44
47:	0.18	0.12	0.09	0.18	0.14	0.16	0.26	0.32	0.41	0.56	2.42
48:	0.74	0.94	0.63	0.92	1.05	0.95	0.98	1.06	1.07	0.88	9.21
49:	0.88	0.88	0.96	1.10	1.14	1.26	1.34	1.19	1.38	1.43	11.55
50:	1.26	1.15	1.35	1.19	1.43	1.36	1.29	1.28	1.30	1.44	13.05
51:	1.38	1.50	0.91	1.27	1.04	1.10	1.03	0.91	0.99	0.87	11.02
52:	0.87	0.88	1.15	0.98	0.86	0.70	0.69	0.69	0.58	0.47	7.87
53:	0.47	0.39	0.46	0.46	0.38	0.45	0.50	0.46	0.39	0.39	4.35
54:	0.40	0.41	0.25	0.38	0.39	0.31	0.32	0.35	0.34	0.35	3.50
55:	0.32	0.27	0.26	0.26	0.28	0.27	0.30	0.30	0.25	0.30	2.81
56:	0.36	0.32	0.27	0.26	0.30	0.25	0.26	0.28	0.32	0.30	2.92
57:	0.28	0.32	0.20	0.27	0.29	0.24	0.21	0.26	0.23	0.26	2.57
58:	0.26	0.25	0.26	0.26	0.25	0.22	0.23	0.19	0.26	0.35	2.53
59:	0.26	0.29	0.33	0.33	0.27	0.26	0.25	0.22	0.23	0.26	2.70
60:	0.31	0.25	0.14	0.20	0.20	0.19	0.18	0.22	0.21	0.20	2.09
61:	0.18	0.18	0.18	0.17	0.18	0.24	0.25	0.30	0.24	0.26	2.19
62:	0.28	0.24	0.23	0.23	0.21	0.22	0.21	0.26	0.24	0.24	2.35
63:	0.22	0.24	0.16	0.19	0.19	0.20	0.19	0.22	0.18	0.15	1.93
64:	0.15	0.15	0.20	0.18	0.18	0.18	0.19	0.19	0.17	0.20	1.77
65:	0.22	0.21	0.19	0.24	0.17	0.15	0.16	0.16	0.16	0.16	1.82
66:	0.18	0.18	0.13	0.18	0.16	0.15	0.15	0.20	0.15	0.15	1.63
67:	0.15	0.15	0.11	0.13	0.15	0.13	0.12	0.13	0.12	0.13	1.31
68:	0.13	0.14	0.13	0.19	0.18	0.13	0.15	0.23	0.19	0.21	1.69
69:	0.18	0.16	0.14	0.16	0.16	0.17	0.22	0.17	0.14	0.16	1.68
70:	0.14	0.11	0.11	0.13	0.13	0.13	0.12	0.11	0.09	0.12	1.18
71:	0.12	0.13	0.12	0.09	0.10	0.11	0.10	0.10	0.10	0.12	1.08
72:	0.12	0.09	0.09	0.05	0.09	0.09	0.08	0.09	0.08	0.07	0.85
73:	0.10	0.05	0.05	0.06	0.05	0.05	0.04	0.04	0.06	0.05	0.55
74:	0.05	0.05	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.46
75:	0.03	0.02	0.02	0.02	0.05	0.02	0.02	0.02	0.02	0.02	0.24
76:	0.02	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.13
77:	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.03	0.00	0.11

Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		73.7	72.2	71.2	70.3	69.6	69.0	68.5	67.8	67.0
10%:	66.4	65.8	65.2	64.7	64.1	63.6	63.0	62.6	62.2	61.8
20%:	61.4	60.8	60.3	59.9	59.5	59.1	58.8	58.3	58.0	57.6
30%:	57.2	56.8	56.5	56.1	55.8	55.4	55.0	54.7	54.4	54.2
40%:	53.9	53.6	53.4	53.2	52.9	52.7	52.6	52.4	52.3	52.2
50%:	52.1	52.0	51.9	51.8	51.7	51.6	51.5	51.4	51.3	51.2
60%:	51.1	51.0	50.9	50.9	50.8	50.7	50.7	50.6	50.5	50.4
70%:	50.3	50.3	50.2	50.1	50.0	50.0	49.9	49.8	49.7	49.7
80%:	49.6	49.5	49.4	49.3	49.3	49.2	49.1	49.0	48.8	48.7
90%:	48.6	48.5	48.4	48.3	48.2	48.1	48.0	47.9	47.7	47.2
100%:	45.7									

Logged Data Chart

S058_BLH080004_25102016_110325: Logged Data Chart



APPENDIX F

TRAFFIC MEMORANDUM

KOA CORPORATION
PLANNING & ENGINEERING

1100 Corporate Center Dr., Suite 201
Monterey Park, CA 91754
t: 323-260-4703 f: 323-260-4705
www.koacorporation.com

TRAFFIC MEMORANDUM

Date:	November 14, 2017
To:	William Meade, LAUSD Betsy Lindsay, UltraSystems
From:	Brian Marchetti, AICP
cc:	Michael Rogozen, UltraSystems Environmental
Subject:	North Hollywood High School Modernization Traffic Memo

The purpose of this Traffic Memorandum is to identify potential traffic-related impacts associated with the peak construction activities related to the modernization improvements of North Hollywood High School (proposed project), an existing 25.1-acre site located at 5231 Colfax Avenue, in the City of Los Angeles (City). Figure 1 illustrates the project site location and the project study area.

This project is a part of the Los Angeles Unified School District's (LAUSD's) comprehensive modernization project that seeks to improve and modernize aging existing schools in the District. The proposed modernization project includes the demolition of structures, construction of new buildings, and upgrading infrastructure systems to include modern functionalities. The proposed modernization project would not increase the existing number of students, nor would it add additional uses, and therefore would not generate new (permanent) traffic to the study area.

Construction is scheduled to begin in 2020 and be completed in 2022. As necessary, mitigation measures are identified that would offset or reduce significant but temporary construction-related impacts. The Lead Agency for the project is LAUSD, while the Los Angeles Department of Transportation (LADOT) is one of the responsible agencies that would have facilities affected by potential construction-related traffic impacts.

Project Background

The North Hollywood High School is comprised of 72 buildings, including 40 permanent structures and 32 portable structures resulting in 108 classrooms with the capacity to accommodate 2,700 students. The campus is bounded by Chandler Boulevard to the north, Magnolia Boulevard to the south, Colfax Avenue to the east, and single-family and multi-family residences to the west.

Construction related activities include demolition of existing buildings, construction of new buildings, and upgrades to campus infrastructure and facilities. Construction activities are anticipated to begin in January 2020 and be completed in January of 2022.

Analysis Methodology

This analysis focuses on the weekday AM (7:00 to 9:00 AM) peak period and the PM (4:00 to 6:00 PM) peak period. These periods represent the highest cumulative total traffic for the adjacent street system. The study intersections include all major intersections providing access to the proposed project and are the locations that are most likely to be impacted by the project. The study intersections include the following locations:

1. Morella Avenue-School Driveway/Magnolia Boulevard
2. Colfax Avenue/Magnolia Boulevard
3. Colfax Avenue/McCormick Street
4. Colfax Avenue/Chandler Boulevard

The following three scenarios were analyzed under this study:

- Existing Year without Project
- Construction Year 2020 without Project
- Construction Year 2020 with Project

The proposed project will require conformance with LAUSD's *Standard Conditions of Approval*[1] Standard Condition SC-T-4 requires that construction traffic be addressed, as large construction equipment will be required to use public roadways in the vicinity of North Hollywood High School. Under this requirement contractors must submit a construction worksite traffic control plan to local officials before construction begins.

SC-T-4 Prior to the start of the first Construction Phase the project applicant's contractor shall have an approved construction worksite traffic control plan on file with local City or County jurisdiction for review. Since North Hollywood Boulevard no longer falls under Caltrans jurisdiction, Caltrans does not need to be involved. Components of the construction worksite traffic control plan shall include, but not be limited to, the following:

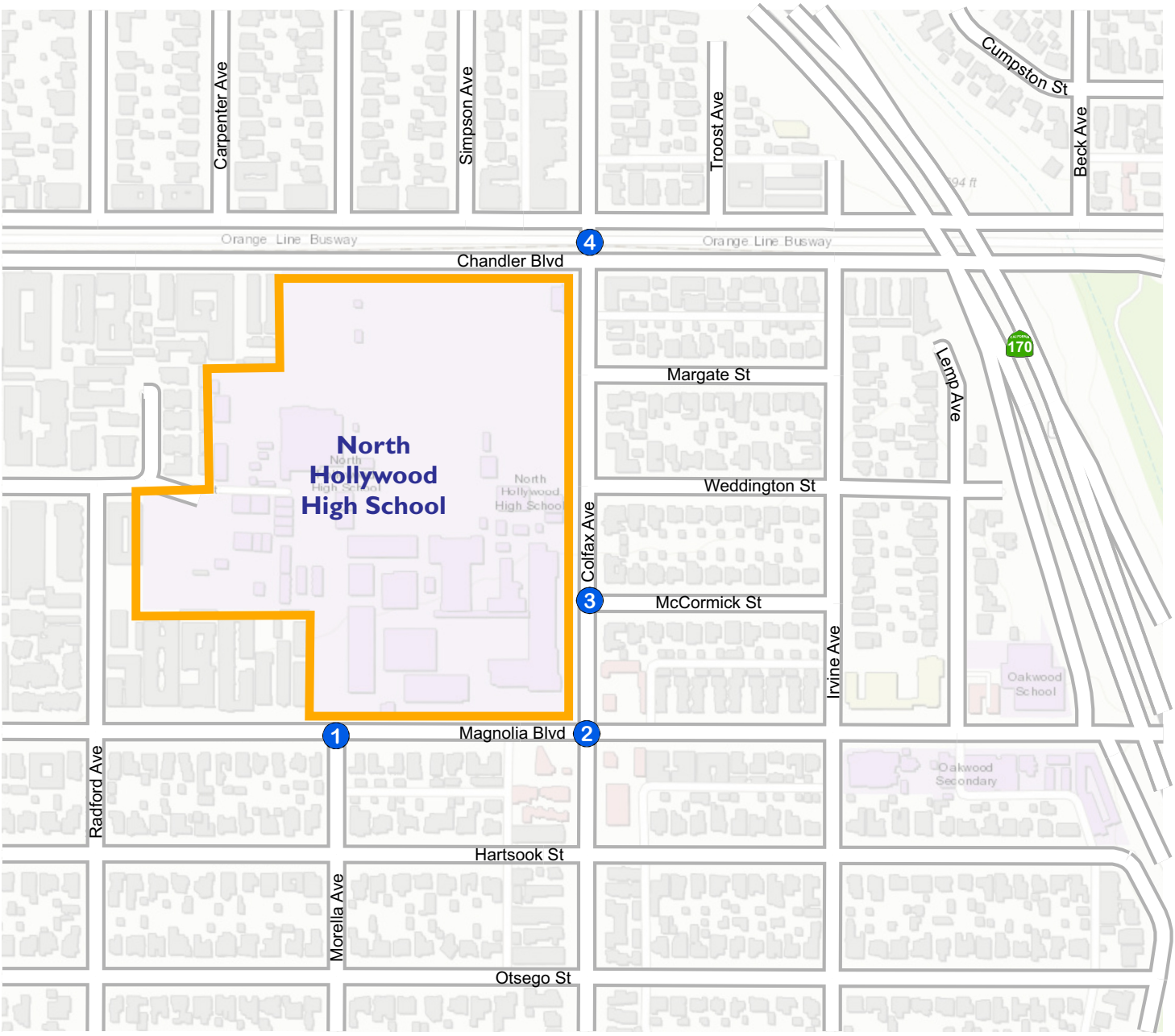
- Locations of haul routes
- Hours of operation
- Protective devices
- Warning signs
- Access to abutting properties
- LAUD shall encourage the contractor to limit construction-related trucks to arrive and leave the project site outside of the AM or PM peak commute hours.

With the implementation of SC-T-4, (temporary) construction-related traffic impacts to the study intersections, and vehicular and pedestrian access points would be less than significant.

[1]https://achieve.lausd.net/cms/lib/CA01000043/Centricity/domain/135/ceqa/E_LAUSD_Standard_Conditions.pdf

North Hollywood High School Access Analysis

Figure 1: Study Area



LEGEND

- Project Site
- Study Intersection

Feet
0 250 500

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Congestion Management Program Locations

The Los Angeles County Congestion Management Program (CMP) requires evaluation of all CMP arterial monitoring intersections where the project adds 50 or more new peak hour trips. The nearest CMP monitoring intersection is Ventura Boulevard/Laurel Canyon Boulevard, approximately three miles away from the project site. Due to the location of the intersection and its distance from the project, is it unlikely that 50 peak hour trips would be added to this location. Similarly, the CMP requires CMP freeway mainline monitoring locations to be evaluated when the project would add 150 or more trips at the monitoring location. The nearest CMP freeway monitoring station is located on the US-101 freeway at Coldwater Canyon Avenue. The project would not add 150 trips to this CMP freeway mainline monitoring station. Based on the trip generation and location, no CMP arterial intersection or freeway mainline monitoring stations are required to be included in the analysis.

LOS Methodology

Intersections

The operational characteristics of an intersection are determined by calculating the intersection's level of service (LOS). The intersection as a whole and its individual turning movements can be described alphabetically with a range of levels of service (A through F), with LOS A indicating free-flow traffic and LOS F indicating extreme congestion and long vehicle delays. At signalized and unsignalized intersections, LOS was calculated using the LADOT *Critical Movement Analysis* (CMA) method utilizing the intersection volume over capacity (V/C) ratio. Signalized intersections within the City of Los Angeles are controlled by the City's Automated Traffic Surveillance and Control System (ATSAC) and are further enhanced by the Adaptive Traffic Control System (ATCS). As such, LADOT allows for a 10 percent V/C adjustment to reproduce the benefits of these systems on the transportation network. LOS at intersections is measured based on the V/C ratio of the intersection's overall capacity. Table 1 shows the relationship between V/C ratio and LOS for intersections.

Table 1. Level of Service Criteria for Intersections using CMA Methodology

Level of Service	V/C Ratio	General Description
A	≤0.60	Free Flow
B	0.61 to ≤ 0.70	Stable Flow (slight delays)
C	0.71 to ≤ 0.80	Stable flow (acceptable delays)
D	0.81 to ≤ 0.90	Approaching unstable flow (tolerable delay, occasionally wait through more than one signal cycle before proceeding)
E	0.91 to ≤ 1.00	Unstable flow (intolerable delay)
F	>1.00	Forced flow (jammed)

Significance Criteria

LADOT has adopted the following significance criteria to assess whether the addition of project trips would cause a significant impact on study area intersections: A significant impact would occur if the project increases the V/C ratio at a study area intersection as shown below.

With-Project LOS	Project-Related Increase in V/C Ratio
LOS C	equal to or greater than 0.040
LOS D	equal to or greater than 0.020
LOS E, F	equal to or greater than 0.010

Mitigation measures would be required to return the CMA value back to the "without project" condition.

Project Site Circulation

The Project would create 50 new parking spaces, increasing the number of parking spaces on the campus from 192 spaces to 242 spaces. 37 parking spaces would be provided in a new parking lot to be located north of the new Gymnasium building; 43 parking spaces would be provided in a new parking lot, north of the new Administration/Classroom building in the northeast portion of the campus; four parking spaces would be provided in the parking area south of the agricultural areas; and the existing parking lot west of Frasher Hall (Classroom Building ID-2) would be expanded to provide 158 parking spaces.

At Project completion, campus access, traffic circulation, and drop-off and pick-up locations would remain the same as for the existing campus. Proposed improvements to vehicular access and parking would be designed to comply with Section 2.3, Vehicular Access and Parking, of the School Design Guide 2016.2 The School Design Guide contains general parking guidelines as well as guidelines relating to vehicular access and pedestrian safety, and security. Off-site improvements would include construction activities on the sidewalks located immediately adjacent to the campus for the repair, creation, extension, or modification of driveways, a possible curb extension, and existing sidewalks.

During the construction period, worker commuter vehicles, vendor vehicles and heavy duty trucks will access the Project site through the driveway on Magnolia Boulevard through the signalized intersection at Morella Avenue, and two temporary access points on Chandler Boulevard. The detailed arrangement varies by phasing.

Existing Conditions Summary

This section describes existing (without project) conditions within the identified study area. Characteristics are provided for the roadway network, peak hour traffic volumes, traffic operations, traffic safety, non-motorized facilities, and transit.

Street System

Characteristics of the existing street system in the proposed project vicinity are shown in Table 2. Geometry and signal controls at the study area intersections are shown in Figure 2.

Table 2. Study Area Existing Street System Summary

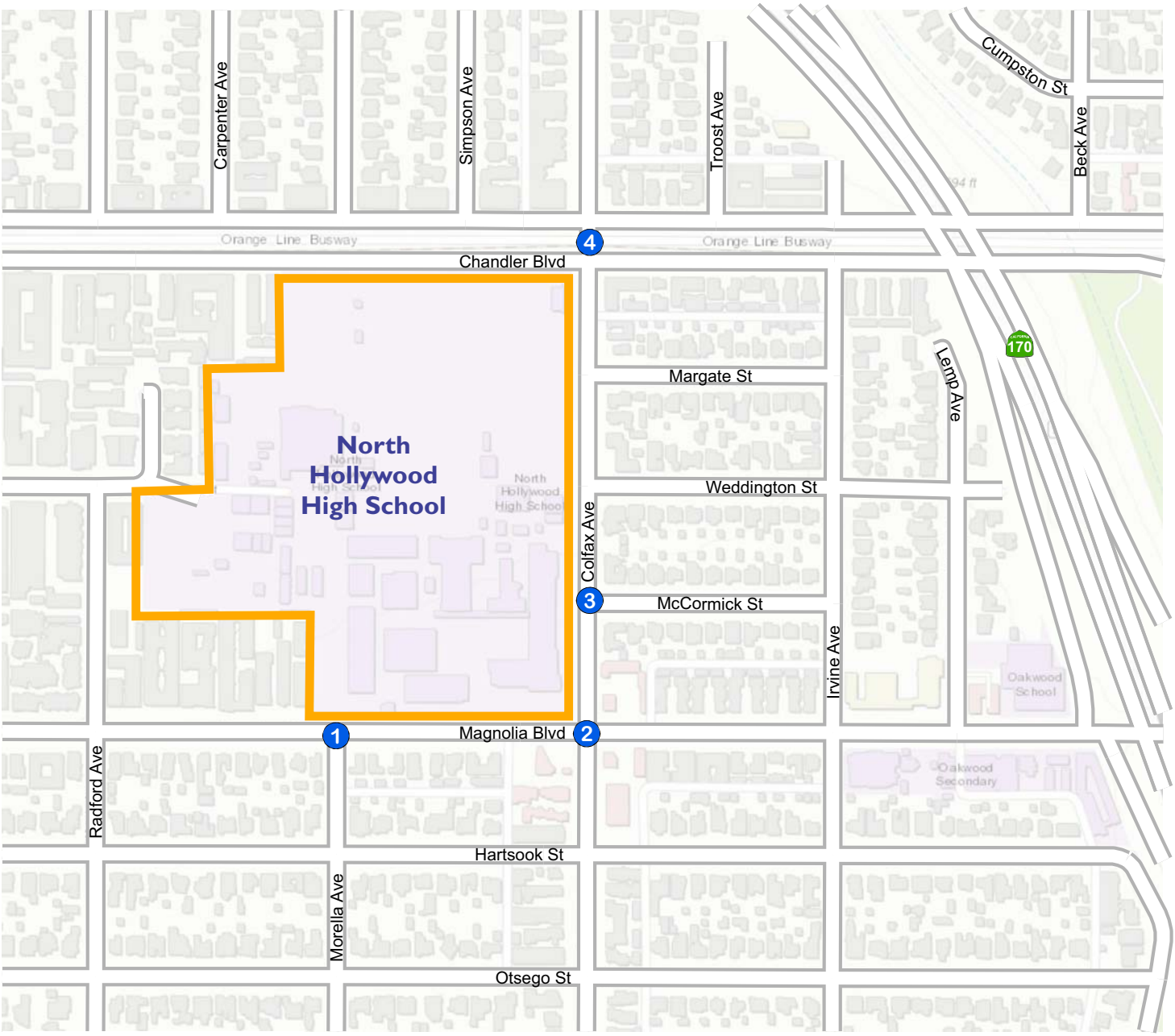
Roadway	Street Classification[1]	Posted Speed Limit (MPH)	Number of Travel Lanes	Parking	Sidewalks	Bicycle Lanes
Chandler Boulevard	Boulevard II	35	4	Yes	Yes	Yes
Magnolia Boulevard	Avenue II	35	2-4	Yes	Yes	No
Colfax Avenue	Avenue II	35	2-4	On some segments	Yes	Yes
Morella Avenue	Local/Other Streets	25	2	On some segments	On some segments	No
McCormick Street	Local/Other Streets	25	2	Yes	Yes	No

MPH = miles per hour
[1] Classification Information from City of Los Angeles Mobility Plan 2035

[2] http://www.laschools.org/new-site/asset-management/school-design-guide

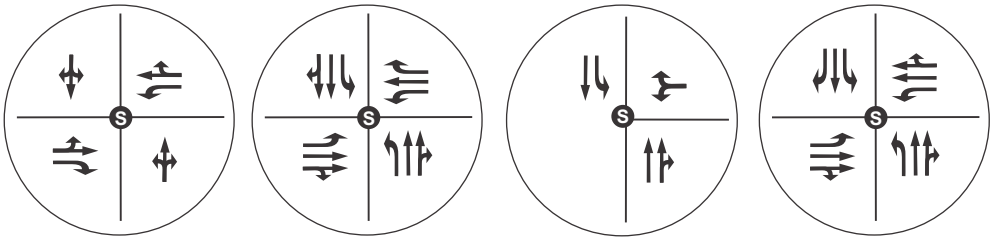
North Hollywood High School Access Analysis

Figure 2: Intersection Geometry



LEGEND

- Project Site
- Study Intersection
- Signalized Intersection
- Intersection Lane Configuration



0 250 500 Feet

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Transit service in the project study area is provided by the Los Angeles County Metropolitan Transportation Authority (Metro). The project site is served by Metro Routes 156, 183 and 656, with stops along Magnolia Boulevard and Chandler Boulevard.

The bus transit service varies in service frequency, with most routes providing service every day, with 30-minute trip headways during the weekday and 30 to 60-minute trip headways on the weekends and holidays. Regional Bus Rapid Transit on the Metro Orange Line is accessible through the nearest station at Laurel Canyon Boulevard/Chandler Boulevard, located approximately one-half of a mile from the project site.

Traffic Volumes

Traffic counts were collected in October 2016 during a typical weekday for all study intersections and analyzed with passenger car equivalency (PCE) factors when applicable. A one percent annual growth rate was applied to project the counts to year 2017 volumes, which were used to evaluate existing traffic conditions. The following roadway segments were counted in October 2016, and their average daily traffic (ADT) counts are as follows:

- Magnolia Boulevard, from Radford Avenue to Morella Avenue: 22,900 ADT
- Colfax Avenue, from McCormick Street to Chandler Boulevard: 15,000 ADT

However, since the project-related daily construction traffic volume share on these roadways is relatively low (one percent or less) and largely focused along Magnolia Boulevard, the addition of 296 PCE daily volumes will not have any impact on the existing average daily traffic volumes along these segments.

The traffic counts are provided in Appendix A.

Intersection Operations

LOS analyses were prepared for the existing conditions per LADOT requirements and are shown in Table 3. LADOT has designated the Critical Movement Analysis (CMA) spreadsheet as the desired tool. Detailed CMA LOS worksheets are provided in Appendix B.

As shown in the table, all of the study intersections currently operate at LOS D or better during the weekday AM and PM peak hours under Existing conditions.

Table 3. Existing Without-Project Weekday Peak Hour Intersection LOS

	AM Peak		PM Peak	
Intersection	**V/C[1]**	**LOS[2]**	**V/C[1]**	**LOS[2]**
1. Morella Avenue-School Driveway/Magnolia Boulevard	0.612	B	0.585	A
2. Colfax Avenue/Magnolia Boulevard	0.687	B	0.853	D
3. Colfax Avenue/McCormick Street	0.504	A	0.309	A
4. Colfax Avenue/Chandler Boulevard	0.691	B	0.482	A

[1] Level of Service, based on LADOT CMA methodology

[2] Volume-to-capacity ratio

Construction Year with Project Summary

This section documents project-generated traffic impacts during the peak construction phase on the study area roadway network. The additional traffic generated by the construction activities would be temporary, and would not last beyond the construction period. The proposed project would not increase the existing number of student seats, nor would it add additional uses to the school campus, and therefore would not contribute new (permanent) traffic to the study area.

Trip Generation

Project vehicle trip generation during the busiest phase of the construction period (June to September 2020) was analyzed. Trip generation for the peak construction phase was defined by data from the California Emissions Estimator Model (CalEEMod),[3] which was used in the separate air quality analysis to calculate air pollutant emissions during construction.[4]

For purposes of this analysis, it was assumed that half of the construction worker trips would arrive and depart the Project site during the AM and PM Peak hours.

There would be 120 vendor delivery trips per day. Half of the vendor delivery truck trips were assumed to arrive and depart the project site during the AM and PM peak hours. Among the 30 trips during the AM peak hour, it was assumed that two thirds will be inbound trips and one third will be outbound trips. Among the 30 trips during the PM peak hour, it was assumed that two thirds will be outbound trips and one third will be inbound trips.

Vendor truck trips were adjusted with a passenger-car equivalency (PCE) factor of 2.0. The peak construction activity trip generation estimates are shown in Table 4.

[3] California Emissions Estimator Model. User's Guide, Version 2016.3.2. Prepared by BREEZE Software for the California Air Pollution Control Officers Association, in collaboration with South Coast Air Quality Management District and the California Air Districts. September 2016.

[4] Air Quality Report for the Ulysses S. Grant High School Comprehensive Modernization Project. Prepared by UltraSystems Environmental Inc., Irvine, CA for the Los Angeles Unified School District, Los Angeles, CA. November 2017.

Table 4. Project Peak Construction Activity Trip Generation Estimates

			AM Peak Hour			PM Peak Hour		
Land Use	**Units**	**Daily**	**In**	**Out**	**Total**	**In**	**Out**	**Total**
Trip Rates								
Project Trip Generation [1]								
Construction Crew (Max)		334	83	0	83	0	83	83
Vendor Trips		120	20	10	30	10	20	30
Total Trip Generation		**454**	**103**	**10**	**113**	**10**	**103**	**113**
Project Trip Generation in PCE [2]								
Construction Crew (Max)		334	83	0	83	0	83	83
Vendor Trucks (in PCE, assuming 2.0 PCE)		240	40	20	60	20	40	60
Total Trip Generation (in PCE)		**574**	**123**	**20**	**143**	**20**	**123**	**143**

[1] Data provided by UltraSystems Environmental.

[2] All truck trips were converted using a 2.0 for all other trucks passenger car equivalence (PCE) factor as noted in Equation 18-6 of the HCM 2010.

As shown in Table 4, the peak construction activity of the project would generate approximately 574 daily PCE trips, including 143 AM peak hour trips (123 inbound and 20 outbound), and 143 PM peak hour trips (20 inbound and 123 outbound).

Trip Distribution and Assignment

Project construction phase trips were distributed to the study area intersections using logical travel paths between the project and regional travel routes, including freeways.

Cumulative Projects

The year 2020 was selected as construction analysis year. In order to acknowledge regional traffic growth that would affect operations at the study intersections, an ambient/background traffic growth rate was applied. The future traffic forecasts include an ambient growth rate of one percent.

A list of related projects in the area was obtained from LADOT development review staff. Table 5 summarizes the trip generation for the area planned/cumulative projects.

Table 5. Trip Generation for Cumulative Projects

Land Use		Units	Daily	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total
Trip Rates									
Residential Condominium/Townhouse[1]		DU	5.81	0.07	0.37	0.44	0.35	0.17	0.52
Shopping Center[2]		TSF	42.70	0.60	0.36	0.96	1.78	1.93	3.71
High-Turnover (Sit Down) Restaurant[3]		TSF	127.15	5.95	4.86	10.81	5.91	3.94	9.85
Project Trip Generation									
1. 4725 N Radford Ave - Apartments	21	DU	122	2	8	9	7	4	11
2. 5401 N Lankershim Blvd - Mixed Use Aparments	127	DU	738	9	46	56	44	22	66
Retail	127.270	TSF	5434	76	46	122	227	246	472
Retail Passby (14% AM/Daily, 28% PM) [4]			-761	-11	-6	-17	-63	-69	-132
Net			5411	75	86	161	207	199	406
3. 11433 W Albers St - Mixed Use Apartments	59	DU	343	4	22	26	21	10	31
Retail	41.048	TSF	1753	24	15	39	73	79	152
Retail Passby (17% AM/Daily, 34% PM) [4]			-298	-4	-3	-7	-25	-27	-52
Net			1798	25	34	59	69	62	131
4. 11700 W Magnolia Blvd - Mixed Use Apartments	19	DU	110	1	7	8	7	3	10
Retail	1.575	TSF	67	1	1	2	3	3	6
Retail Passby (33% AM/Daily, 66% PM) [4]			-22	0	0	0	-2	-2	-4
Net			155	2	7	9	8	4	12
5. 11443 W Riverside Dr - Apartments	29	DU	168	2	11	13	10	5	15
6. 5532 N Fulcher Ave - Apartments	29	DU	168	2	11	13	10	5	15
7. 11102 W Magnolia Blvd - Restaurant	2.875	TSF	366	17	14	31	17	11	28
8. 11301 W Camarillo St - Mixed Use Apartments	60	DU	349	4	22	26	21	10	31
Retail	2.826	TSF	121	2	1	3	5	5	10
Retail Passby (33% AM/Daily, 66% PM) [4]			-40	-1	0	-1	-3	-4	-7
Net			429	6	23	28	23	12	35
9. 12341 W Chandler Blvd - Condos	23	DU	134	2	8	10	8	4	12
10. 11460 W Killion St - Apartments	18	DU	105	1	7	8	6	3	9
Total Trip Generation			8857	133	208	341	365	309	675

DU = Dwelling Units
TSF = Thousand Square Feet

[1] Trip rates from the Institute of Transportation Engineers, *Trip Generation, 9th Edition,* 2012. Land Use Code 230 - Residential Condominium/Townhouse.

[2] Trip rates from the Institute of Transportation Engineers, *Trip Generation, 9th Edition,* 2012. Land Use Code 820 Shopping Center.

[3] Trip rates from the Institute of Transportation Engineers, *Trip Generation, 9th Edition,* 2012. Land Use Code 932 High-Turnover (Sit Down) Restaurant.

[4] ITE Trip Generation does not provide daily and AM peak hour pass-by percentages. Daily and AM pass-by percentages were assumed to be one-half of the PM pass-by percentage.

Construction Year with Project Traffic Volumes

Construction Year with-Project (peak construction phase) traffic volumes were determined by adding the project trips to the Construction Year without-Project traffic volumes.

Intersection Operations

An intersection operations analysis was conducted for the study area to evaluate the Construction Year with-Project (peak construction phase) weekday AM and PM peak hour conditions with the project.

Table 6 provides a comparison between the Construction Year without and with-Project conditions for the weekday AM and PM peak hours. Detailed LOS worksheets are included in Appendix B.

Table 6. Traffic Impact Analysis Summary

	Opening Year				Opening Year plus Project				V/C Change		Impact	
	AM Peak		PM Peak		AM Peak		PM Peak		AM	PM	AM	PM
Intersection	V/C[1]	LOS[2]	V/C[1]	LOS[2]	V/C[1]	LOS[2]	V/C[1]	LOS[2]				
1. Morella Avenue-School Driveway/Magnolia Boulevard	0.6	B	0.58	A	0.654	B	0.625	B	0.05	0.05	No	No
2. Colfax Avenue/Magnolia Boulevard	0.68	B	0.87	D	0.729	C	0.896	D	0.04	0.03	Yes	Yes
3. Colfax Avenue/McCormick Street	0.5	A	0.3	A	0.517	A	0.331	A	0.02	0.03	No	No
4. Colfax Avenue/Chandler Boulevard	0.69	B	0.48	A	0.708	C	0.489	A	0.02	0.01	No	No

[1]Level of Service, based on LADOT CMA methodology

[2]Volume-to-capacity ratio

As shown in the table, all of the study intersections are forecast to continue to operate at LOS D or better during the AM and PM peak hours in the Construction Year plus Project conditions scenario.

However, the construction activity would cause a significant traffic impact at the intersection of Colfax Avenue and Magnolia Boulevard during both peak hours. During the AM peak hour, the project-added V/C increase is more than 0.040 V/C (at LOS C). During the PM peak hour, the V/C ratio will increase by more than 0.020 V/C (at LOS D),

The Project will not cause any significant traffic impact on any of the other three study intersections. Recommended mitigation measures are discussed in the section below.

Mitigation Measure

To mitigate the significant traffic impact at the intersection of Colfax Avenue and Magnolia Boulevard, KOA recommends including travel demand management measures in the project Worksite Traffic Control Plan (WTCP).

These measures should include the requirement that all construction employees be on-site before 7:00 AM and depart the site before 4:00 PM. This restriction will avoid a peak hour overlap of construction activity with the peak period of commute traffic, and will fully avoid the creation of any significant traffic impacts.

Pedestrian Access and Vehicle Circulation

Construction traffic will predominantly flow from the existing driveway on Magnolia Boulevard, towards the center of the campus via the existing parking lot. Additional access will be provided along Chandler Boulevard.

Pedestrian access to the school during the construction phase would be minimally altered. Any modifications to parking lots and campus entrances/exits would be designed per the requirements of LAUSD. Modifications to the parking lots will be required and across the various phases, the configuration of the campus parking lots and other circulation areas will be modified to allow for access and laydown areas. Campus vehicle traffic flows and campus pedestrian circulation areas will be separated from construction traffic and detours and alternate access for each will be provided as necessary.

During construction, should any pedestrian access be temporarily changed, the LAUSD contractor will be required to comply with LAUSD's *Standard Conditions of Approval* reference #SC-T-4 for large construction equipment utilizing public roadways and access to LAUSD campuses. LAUSD will require contractors to submit a construction Worksite Traffic Control Plan (WTCP) prior to the start of construction.

The WTCP would potentially include restrictions on hauling/delivery truck access during times of school travel to avoid conflicts with pedestrians, defined haul routes to and from the nearest freeway access points, and designation of truck queuing/loading areas.

The LAUSD *Standard Conditions of Approval* reference #SC-T-4 is as follows:

SC-T-4 Prior to the start of the (peak) first Construction Phase the project applicant's contractor shall have an approved construction worksite traffic control plan on file with local City or County jurisdiction for review. Since North Hollywood Boulevard no longer falls under Caltrans jurisdiction, Caltrans does not need to be involved. Components of the construction worksite traffic control plan shall include, but not be limited to, the following:

- Locations of haul routes
- Hours of operation
- Protective devices
- Warning signs
- Access to abutting properties
- LAUD shall encourage the contractor to limit construction-related trucks to arrive and leave the project site outside of the AM or PM peak commute hours.

With the implementation of SC-T-4, (temporary) construction-related traffic impacts to the study area intersections, and vehicular and pedestrian access points would be less than significant.

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APPENDIX A – TRAFFIC COUNTS

INTERSECTION TURNING MOVEMENT COUNTS

T816

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Oct 26, 16

LOCATION: North Hollywood
NORTH & SOUTH: Morella
EAST & WEST: Magnolia

PROJECT #: SC1112
LOCATION #: 1
CONTROL: SIGNAL

NOTES:
EB queue

AM / PM / MD / OTHER / OTHER

N ▲ | ◄ W | E ► | S ▼

Add U-Turns to Left Turns

		NORTHBOUND (Morella)			SOUTHBOUND (Morella)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 0	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	1	2	0	1	2	148	1	9	113	8	285
	7:15 AM	5	0	5	1	0	2	5	203	10	8	165	9	413
	7:30 AM	14	2	7	2	1	5	7	198	14	12	216	20	498
	7:45 AM	23	2	19	0	1	5	6	197	14	22	209	8	506
	8:00 AM	14	1	9	0	0	2	6	218	8	7	191	14	470
	8:15 AM	9	0	10	2	1	0	0	218	2	3	177	1	423
	8:30 AM	0	0	4	1	0	0	0	196	7	4	155	2	369
	8:45 AM	2	0	3	0	0	1	1	216	4	4	141	1	373
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	67	5	58	8	3	16	27	1,594	60	69	1,367	63	3,337
	APPROACH %	52%	4%	45%	30%	11%	59%	2%	95%	4%	5%	91%	4%	
	APP/DEPART	130	/	95	27	/	129	1,681	/	1,663	1,499	/	1,450	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	60	5	45	4	3	12	19	831	38	44	793	43	1,897
	APPROACH %	55%	5%	41%	21%	16%	63%	2%	94%	4%	5%	90%	5%	
	PEAK HR FACTOR		0.625			0.594			0.957			0.887		0.937
	APP/DEPART	110	/	67	19	/	85	888	/	880	880	/	865	0
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		3:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
X	X	X	X	
0	0	0	3	3
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	3	3
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

Morella (NORTH SIDE)

Magnolia (WEST SIDE) — (EAST SIDE) **Magnolia**

(SOUTH SIDE) **Morella**

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS					SCHOOL AGE PED				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	1	2	0	3	0	1	2	0	3	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	3	13	0	16	0	2	4	0	6	0	0	0	0	0	0	1	9	0	10
	7:30 AM	0	4	39	0	43	0	3	5	0	8	0	0	1	0	1	0	1	33	0	34
	7:45 AM	0	12	93	0	105	0	5	2	0	7	0	0	0	0	0	0	7	91	0	98
	8:00 AM	0	7	24	0	31	0	0	1	0	1	0	2	0	0	2	0	5	23	0	28
	8:15 AM	0	1	1	0	2	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1
	8:30 AM	0	1	1	0	2	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	30	173	0	203	0	14	15	0	29	0	2	1	0	3	0	14	157	0	171
PM	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

City Of Los Angeles
Department Of Transportation
MANUAL TRAFFIC COUNT SUMMARY

STREET:
North / Sounth: Morella

East/West: Magnolia

Day: WEDNESDAY Date: October 26, 2016 Weather: Sunny

Hours:

School Da: Yes District: I/S CODE:

	N/B	S/B	E/B	W/B
DUAL-WHEELED	1	1	61	52
BIKES	1	0	2	0
BUSES	0	0	8	13

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	44	7:45:00 AM	8	7:30:00 AM	232	8:00:00 AM	248	7:30:00 AM
PM PK 15 MIN	0	5:45:00 PM	8	7:30:00 AM	232	8:00:00 AM	248	7:30:00 AM
AM PK HOUR	110	7:30:00 AM	20	7:00:00 AM	888	7:30:00 AM	881	7:15:00 AM
PM PK HOUR	0	5:45:00 PM	0	5:45:00 PM	0	5:45:00 PM	0	5:45:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	42	4	32	78
8-9	25	1	26	52
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	67	5	58	130

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	5	2	13	20
8-9	3	2	3	8
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	8	4	16	28

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
98	11	9	0	0
60	3	5	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
158	14	14	0	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	20	746	39	805
8-9	7	1595	21	1623
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	27	2341	60	2428

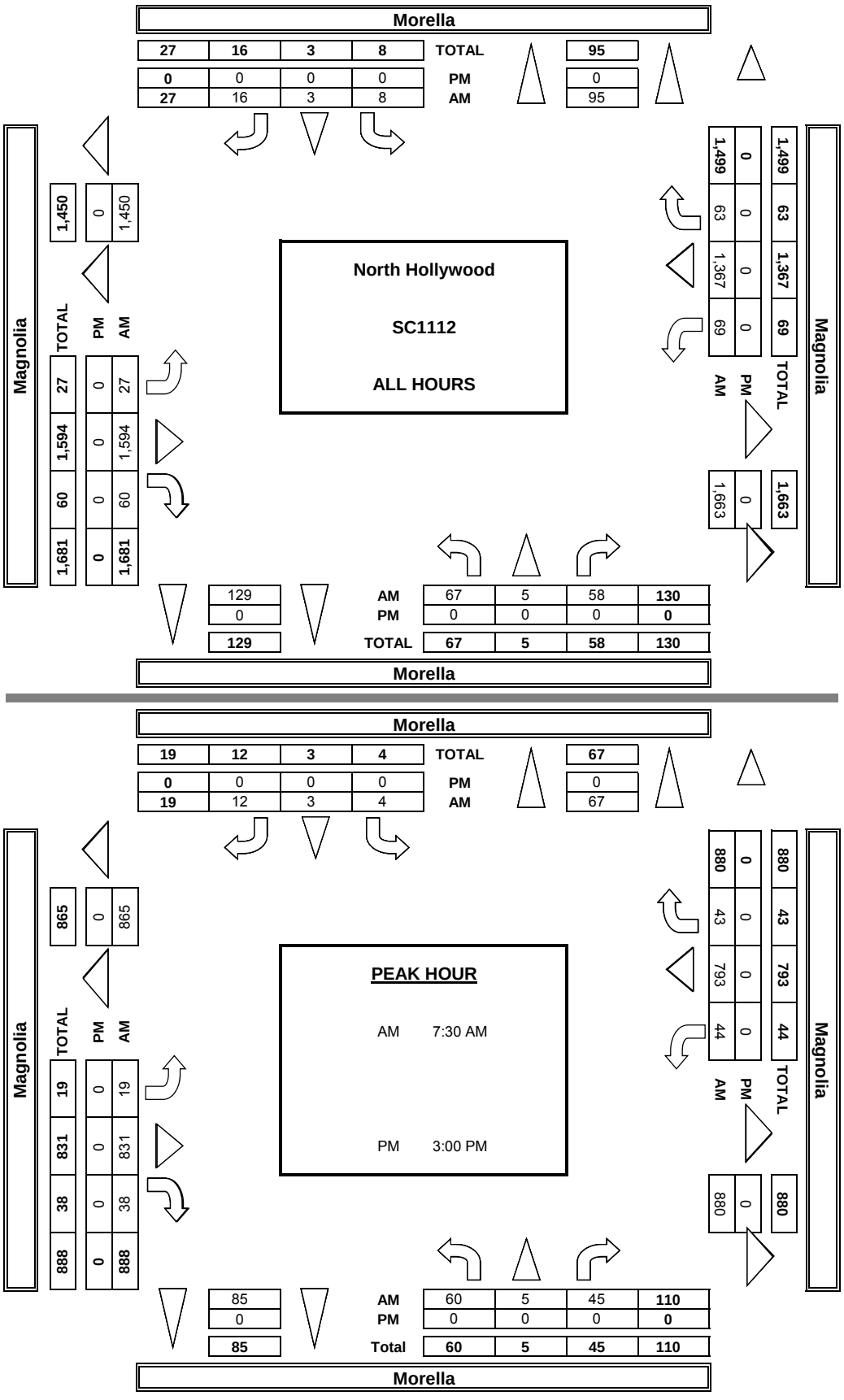
WESTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	51	703	45	799
8-9	18	664	18	700
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	69	1367	63	1499

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
1604	0	0	13	133
2323	0	0	2	24
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
3927	0	0	15	157

AimTD LLC

TURNING MOVEMENT COUNTS



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Morella	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

	NOTES:												
PCE	Class	1	2	3	4	5	6			AM		▲ N	
Adjusted	Factor	1	1.5	2	3	2	2			PM			
										MD	◄ W		E ►
										OTHER		S	
										OTHER		▼	

	NORTHBOUND (Morella)			SOUTHBOUND (Morella)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 0	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
7:00 AM	0	0	1	2	0	1	2	152	1	10	121	8	298					0
7:15 AM	5	0	5	1	0	2	5	208	10	9	168	10	422					0
7:30 AM	14	2	8	2	1	6	7	204	14	12	220	20	509					0
7:45 AM	23	2	19	0	1	5	6	200	14	22	210	8	510					0
8:00 AM	14	1	9	0	0	2	6	220	8	8	200	14	482					0
8:15 AM	9	0	10	2	1	0	0	223	2	3	180	1	431					0
8:30 AM	0	0	4	1	0	0	0	201	9	4	160	2	380					0
8:45 AM	2	0	3	0	0	1	1	224	4	4	146	1	386					0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
VOLUMES	67	5	59	8	3	17	27	1,631	62	72	1,403	64	3,416	0	0	0	0	0
APPROACH %	51%	4%	45%	29%	11%	60%	2%	95%	4%	5%	91%	4%						
APP/DEPART	131	/	96	28	/	137	1,720	/	1,698	1,538	/	1,486	0					
BEGIN PEAK HR		7:30 AM																
VOLUMES	60	5	46	4	3	13	19	847	38	45	809	43	1,931					
APPROACH %	54%	5%	41%	21%	15%	64%	2%	94%	4%	5%	90%	5%						
PEAK HR FACTOR		0.628			0.574			0.965			0.890		0.947					
APP/DEPART	111	/	67	20	/	86	904	/	896	897	/	882	0					
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		5:45 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

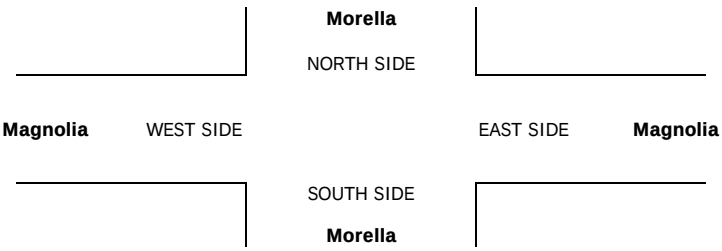
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Morella	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND (Morella)			SOUTHBOUND (Morella)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 0	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM																		
7:00 AM	0	0	1	2	0	1	2	141	1	8	103	8	267	0	0	0	3	3
7:15 AM	5	0	5	1	0	2	5	193	10	7	160	8	396	0	0	0	0	0
7:30 AM	14	2	6	2	1	4	7	189	14	12	209	20	480	0	0	0	0	0
7:45 AM	23	2	19	0	1	5	6	191	14	22	208	8	499	0	0	0	0	0
8:00 AM	14	1	9	0	0	2	6	214	8	6	175	14	449	0	0	0	0	0
8:15 AM	9	0	10	2	1	0	0	209	2	3	172	1	409	0	0	0	0	0
8:30 AM	0	0	4	1	0	0	0	187	5	4	147	2	350	0	0	0	0	0
8:45 AM	2	0	3	0	0	1	1	203	4	4	132	1	351	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	67	5	57	8	3	15	27	1,527	58	66	1,306	62	3,201	0	0	0	3	3
APPROACH %	52%	4%	44%	31%	12%	58%	2%	95%	4%	5%	91%	4%						
APP/DEPART	129	/	94	26	/	124	1,612	/	1,595	1,434	/	1,388	0					
BEGIN PEAK HR		7:30 AM																
VOLUMES	60	5	44	4	3	11	19	803	38	43	764	43	1,837					
APPROACH %	55%	5%	40%	22%	17%	61%	2%	93%	4%	5%	90%	5%						
PEAK HR FACTOR		0.619			0.643			0.943			0.882		0.920					
APP/DEPART	109	/	67	18	/	84	860	/	851	850	/	835	0					
PM																		
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



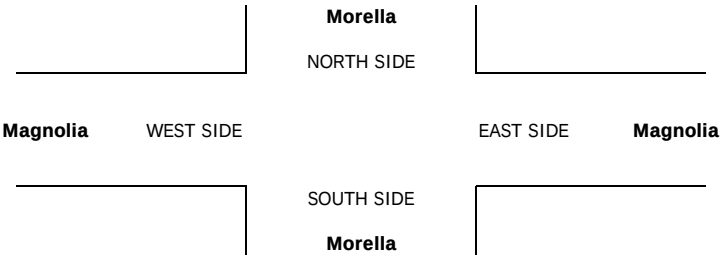
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Morella	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 2:	NOTES:	AM		▲ N	
2-AXLE		PM			
WORK		MD	◄ W		E ►
VEHICLES/		OTHER		S	
TRUCKS		OTHER		▼	

		NORTHBOUND Morella			SOUTHBOUND Morella			EASTBOUND Magnolia			WESTBOUND Magnolia				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 0	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	6	0	0	5	0	11	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	10	0	0	5	1	16	0	0	0	0	0
	7:30 AM	0	0	1	0	0	1	0	7	0	0	6	0	15	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	6	0	0	1	0	7	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	4	0	0	15	0	19	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	8	0	0	4	0	12	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	9	1	0	7	0	17	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	10	0	0	8	0	18	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	1	0	0	1	0	60	1	0	51	1	115	0	0	0	0	0
	APPROACH %	0%	0%	100%	0%	0%	100%	0%	98%	2%	0%	98%	2%						
	APP/DEPART	1	/	1	1	/	1	61	/	61	52	/	52	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	0	0	0	0	31	1	0	34	0	66					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	97%	3%	0%	100%	0%						
	PEAK HR FACTOR		0.000			0.000			0.800			0.567		0.868					
	APP/DEPART	0	/	0	0	/	1	32	/	31	34	/	34	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

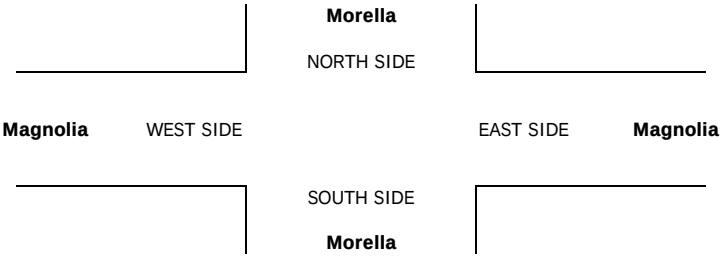
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Morella	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Morella			SOUTHBOUND Morella			EASTBOUND Magnolia			WESTBOUND Magnolia				U-TURNS				
LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 0	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM																		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		7:00 AM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM																		
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Morella	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

	NORTHBOUND (Morella)			SOUTHBOUND (Morella)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 0	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM																		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		7:00 AM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM																		
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					

Morella

NORTH SIDE

Magnolia WEST SIDE EAST SIDE **Magnolia**

SOUTH SIDE

Morella

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

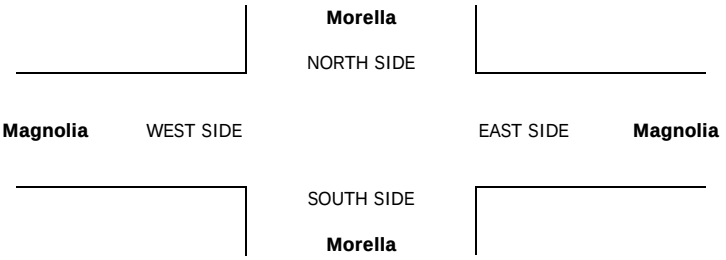
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Morella	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Morella			SOUTHBOUND Morella			EASTBOUND Magnolia			WESTBOUND Magnolia				U-TURNS				
LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 0	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM																		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		7:00 AM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM																		
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



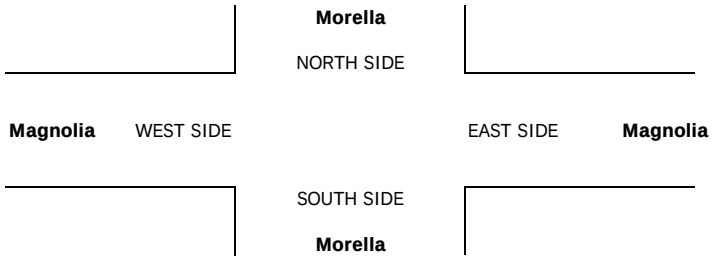
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Morella	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 6:	NOTES:	AM / PM / MD / OTHER / OTHER
BUSES		▲ N / ◄ W / E ► / S ▼

		NORTHBOUND (Morella)			SOUTHBOUND (Morella)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 0	SR 0	EL 0	ET 1	ER 0	WL 1	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	1	0	1	5	0	7	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	2	0	0	1	0	3	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	1	0	0	1	0	2	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	3	0	0	1	0	4	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	7	1	3	10	0	21	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	88%	13%	23%	77%	0%						
	APP/DEPART	0	/	0	0	/	4	8	/	7	13	/	10	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	0	0	0	0	0	0	0	3	0	2	6	0	11					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	25%	75%	0%						
	PEAK HR FACTOR		0.000			0.000			0.375			0.333		0.393					
	APP/DEPART	0	/	0	0	/	2	3	/	3	8	/	6	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

T816

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
Wed, Oct 26, 16	NORTH & SOUTH:	Morella	LOCATION #:	1
	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

Add U-Turns to Left Turns

		NORTHBOUND (Morella)			SOUTHBOUND (Morella)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)			
	LANES:	NL 1	NT 3	NR 0	SL 1	ST 3	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	4	0	8	4	0	1	1	184	4	4	138	1	349
	2:45 PM	2	0	11	1	0	0	1	175	4	8	189	4	395
	3:00 PM	1	1	2	6	0	9	4	194	4	6	156	7	390
	3:15 PM	18	3	5	9	0	13	3	170	13	5	196	9	444
	VOLUMES	25	4	26	20	0	23	9	723	25	23	679	21	1,578
	APPROACH %	45%	7%	47%	47%	0%	53%	1%	96%	3%	3%	94%	3%	
	APP/DEPART	55	/	34	43	/	43	757	/	774	723	/	727	0
	BEGIN PEAK HR		2:30 PM											
	VOLUMES	25	4	26	20	0	23	9	723	25	23	679	21	1,578
	APPROACH %	45%	7%	47%	47%	0%	53%	1%	96%	3%	3%	94%	3%	
	PEAK HR FACTOR		0.529			0.489			0.937			0.861		0.889
	APP/DEPART	55	/	34	43	/	43	757	/	774	723	/	727	0
PM	03:30 PM	6	1	8	6	3	8	5	191	8	16	187	6	445
	3:45 PM	2	0	9	7	0	2	0	175	3	15	217	4	434
	4:00 PM	2	1	7	9	1	3	0	164	2	8	195	11	403
	4:15 PM	2	0	1	3	0	4	1	199	3	9	193	6	421
	4:30 PM	2	3	6	4	1	6	2	182	1	9	192	0	408
	4:45 PM	2	2	2	4	0	8	1	187	0	3	206	7	422
	5:00 PM	2	0	5	1	1	7	1	187	4	5	199	7	419
	5:15 PM	2	0	6	2	0	8	2	211	2	4	208	8	453
	5:30 PM	4	0	6	4	0	6	2	209	1	8	232	10	482
	5:45 PM	0	1	3	3	0	7	3	198	4	7	232	17	475
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	24	8	53	43	6	59	17	1,903	28	84	2,061	76	4,362
	APPROACH %	28%	9%	62%	40%	6%	55%	1%	98%	1%	4%	93%	3%	
	APP/DEPART	85	/	101	108	/	114	1,948	/	2,003	2,221	/	2,144	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	8	1	20	10	1	28	8	805	11	24	871	42	1,829
	APPROACH %	28%	3%	69%	26%	3%	72%	1%	98%	1%	3%	93%	4%	
	PEAK HR FACTOR		0.725			0.975			0.958			0.915		0.949
	APP/DEPART	29	/	51	39	/	36	824	/	835	937	/	907	0

U-TURNS

NB	SB	EB	WB	TTL
X	X	X	X	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	3	3
0	0	0	2	2
0	0	0	0	0
0	0	0	5	5
0	0	0	1	1
0	0	0	0	0
0	0	0	1	1
0	0	0	0	0
0	0	0	2	2
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	4	4



	ALL PED AND BIKE				
	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
12:30 PM	0	0	0	0	0
12:45 PM	0	0	0	0	0
1:00 PM	0	0	0	0	0
1:15 PM	0	0	0	0	0
1:30 PM	0	0	0	0	0
PM 1:45 PM	0	0	0	0	0
PM 2:00 PM	0	0	0	0	0
PM 2:15 PM	0	0	0	0	0
PM 2:30 PM	0	2	5	0	7
PM 2:45 PM	1	2	3	0	6
PM 3:00 PM	0	1	2	1	4
PM 3:15 PM	0	58	98	1	157
TOTAL	1	63	108	2	174
3:30 PM	2	20	20	0	42
PM 3:45 PM	1	2	5	0	8
PM 4:00 PM	0	1	1	0	2
PM 4:15 PM	0	1	0	0	1
PM 4:30 PM	0	0	10	0	10
PM 4:45 PM	1	4	3	0	8
PM 5:00 PM	1	5	7	0	13
PM 5:15 PM	0	2	2	0	4
PM 5:30 PM	0	4	2	0	6
PM 5:45 PM	0	2	2	0	4
PM 6:00 PM	0	0	0	0	0
PM 6:15 PM	0	0	0	0	0
TOTAL	5	41	52	0	98

	PEDESTRIAN CROSSINGS				
	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
12:30 PM	0	0	0	0	0
12:45 PM	0	0	0	0	0
1:00 PM	0	0	0	0	0
1:15 PM	0	0	0	0	0
1:30 PM	0	0	0	0	0
PM 1:45 PM	0	0	0	0	0
PM 2:00 PM	0	0	0	0	0
PM 2:15 PM	0	0	0	0	0
PM 2:30 PM	0	2	1	0	3
PM 2:45 PM	0	2	1	0	3
PM 3:00 PM	0	0	2	0	2
PM 3:15 PM	0	8	4	0	12
TOTAL	0	12	8	0	20
3:30 PM	0	4	3	0	7
PM 3:45 PM	0	1	1	0	2
PM 4:00 PM	0	1	0	0	1
PM 4:15 PM	0	1	0	0	1
PM 4:30 PM	0	0	2	0	2
PM 4:45 PM	0	2	0	0	2
PM 5:00 PM	0	4	3	0	7
PM 5:15 PM	0	1	0	0	1
PM 5:30 PM	0	3	1	0	4
PM 5:45 PM	0	0	2	0	2
PM 6:00 PM	0	0	0	0	0
PM 6:15 PM	0	0	0	0	0
TOTAL	0	17	12	0	29

	BICYCLE CROSSINGS				
	NS	SS	ES	WS	TOTAL
12:30 PM	0	0	0	0	0
12:45 PM	0	0	0	0	0
1:00 PM	0	0	0	0	0
1:15 PM	0	0	0	0	0
1:30 PM	0	0	0	0	0
PM 1:45 PM	0	0	0	0	0
PM 2:00 PM	0	0	0	0	0
PM 2:15 PM	0	0	0	0	0
PM 2:30 PM	0	0	0	0	0
PM 2:45 PM	1	0	0	0	1
PM 3:00 PM	0	1	0	1	2
PM 3:15 PM	0	0	0	1	1
TOTAL	1	1	0	2	4
3:30 PM	2	0	0	0	2
PM 3:45 PM	1	0	0	0	1
PM 4:00 PM	0	0	0	0	0
PM 4:15 PM	0	0	0	0	0
PM 4:30 PM	0	0	0	0	0
PM 4:45 PM	1	2	0	0	3
PM 5:00 PM	1	0	0	0	1
PM 5:15 PM	0	0	0	0	0
PM 5:30 PM	0	1	0	0	1
PM 5:45 PM	0	2	0	0	2
PM 6:00 PM	0	0	0	0	0
PM 6:15 PM	0	0	0	0	0
TOTAL	5	5	0	0	10

	SCHOOL AGE PED				
	NS	SS	ES	WS	TOTAL
12:30 PM	0	0	0	0	0
12:45 PM	0	0	0	0	0
1:00 PM	0	0	0	0	0
1:15 PM	0	0	0	0	0
1:30 PM	0	0	0	0	0
PM 1:45 PM	0	0	0	0	0
PM 2:00 PM	0	0	0	0	0
PM 2:15 PM	0	0	0	0	0
PM 2:30 PM	0	0	4	0	4
PM 2:45 PM	0	0	2	0	2
PM 3:00 PM	0	0	0	0	0
PM 3:15 PM	0	50	94	0	144
TOTAL	0	50	100	0	150
3:30 PM	0	16	17	0	33
PM 3:45 PM	0	1	4	0	5
PM 4:00 PM	0	0	1	0	1
PM 4:15 PM	0	0	0	0	0
PM 4:30 PM	0	0	8	0	8
PM 4:45 PM	0	0	3	0	3
PM 5:00 PM	0	1	4	0	5
PM 5:15 PM	0	1	2	0	3
PM 5:30 PM	0	0	1	0	1
PM 5:45 PM	0	0	0	0	0
PM 6:00 PM	0	0	0	0	0
PM 6:15 PM	0	0	0	0	0
TOTAL	0	19	40	0	59

City Of Los Angeles
Department Of Transportation
MANUAL TRAFFIC COUNT SUMMARY

STREET:
North / Sounth: Morella

East/West: Magnolia

Day: WEDNESDAY Date: October 26, 2016 Weather: Sunny

Hours:

School Day: Yes District: I/S CODE:

	N/B	S/B	E/B	W/B
DUAL-WHEELED	7	4	63	70
BIKES	0	2	6	6
BUSES	0	0	11	20

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
PM 1 PK 15 MIN	26	3:15:00 PM	22	3:15:00 PM	202	3:00:00 PM	210	3:15:00 PM
PM 2 PK 15 MIN	15	#########	22	3:15:00 PM	204	3:00:00 PM	210	3:15:00 PM
PM 1 PK HOUR	55	2:30:00 PM	43	2:30:00 PM	757	2:30:00 PM	723	2:30:00 PM
PM 2 PK HOUR	39	3:30:00 PM	46	3:30:00 PM	824	5:00:00 PM	937	5:00:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	0	0	0
14:30-15:30	25	4	26	55
15:30-16:30	12	2	25	39
16:30-17:30	8	5	19	32
17:30-18:30	4	1	9	14
TOTAL	49	12	79	140

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	0	0	0
14:30-15:30	20	0	23	43
15:30-16:30	25	4	17	46
16:30-17:30	11	2	29	42
17:30-18:30	7	0	13	20
TOTAL	63	6	82	151

TOTAL / XING S/L / XING N/L

N-S	Ped	Sch	Ped	Sch
0	0	0	0	0
0	0	0	0	0
98	12	50	0	0
85	7	17	0	0
74	7	2	0	0
34	3	0	0	0
291	29	69	0	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	1	0	1
14:30-15:30	9	723	25	757
15:30-16:30	6	729	16	751
16:30-17:30	6	767	7	780
17:30-18:30	5	407	5	417
TOTAL	26	2627	53	2706

WESTBOUND Approach

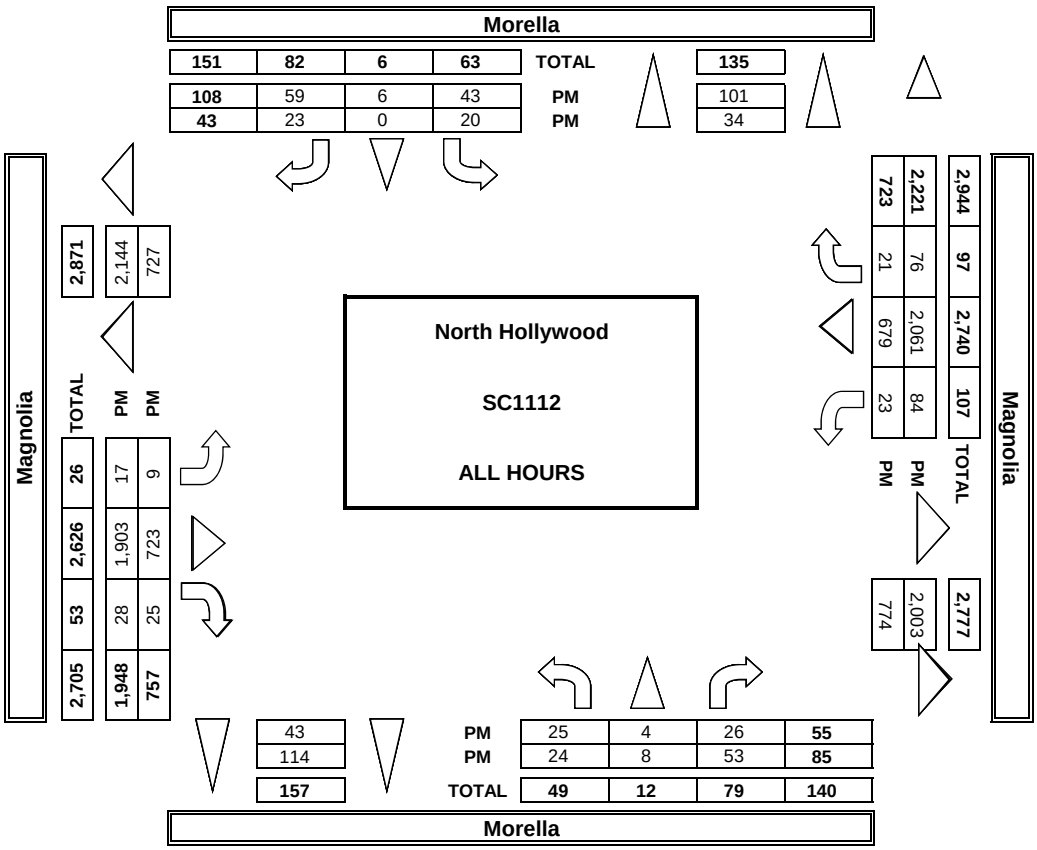
Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	0	0	0
14:30-15:30	23	679	21	723
15:30-16:30	48	792	27	867
16:30-17:30	21	805	22	848
17:30-18:30	15	464	27	506
TOTAL	107	2740	97	2944

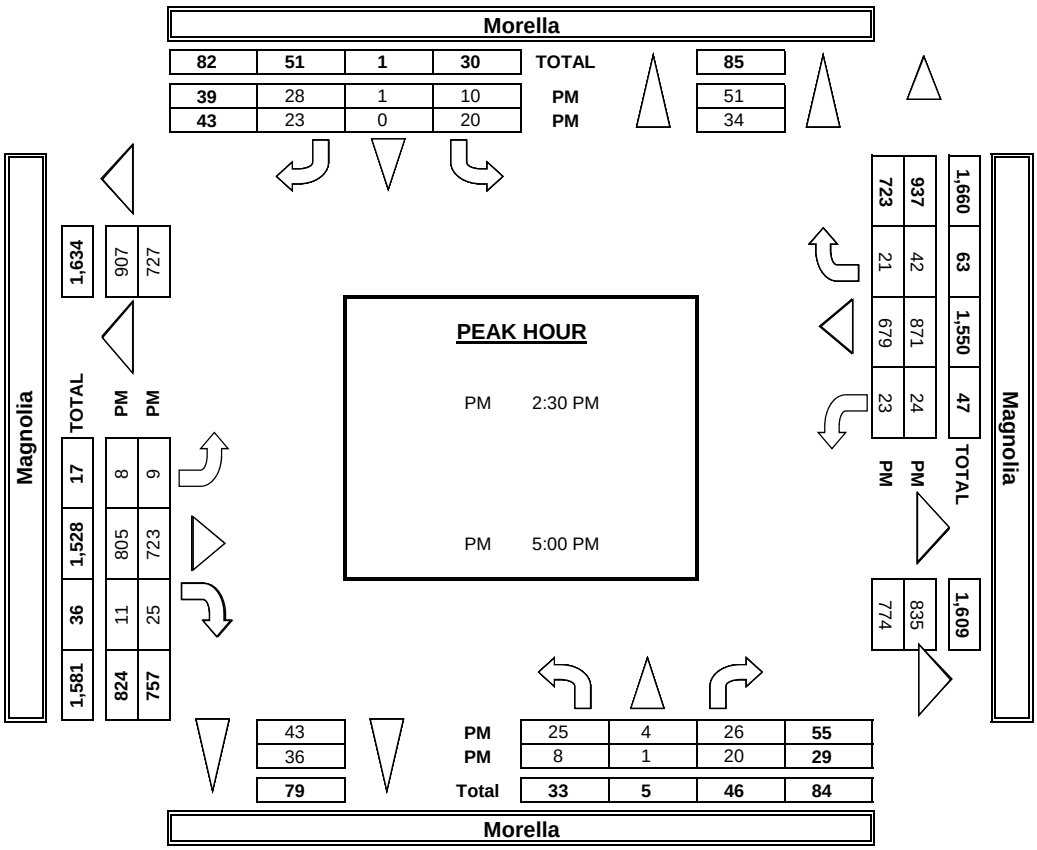
TOTAL / XING W/L / XING E/L

E-W	Ped	Sch	Ped	Sch
0	0	0	0	0
1	0	0	0	0
1480	0	0	8	100
1618	0	0	4	22
1628	0	0	5	17
923	0	0	3	1
5650	0	0	20	140

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:					
10/26/16	LOCATION:	North Hollywood	PROJECT #:	SC1112	
WEDNESDAY	NORTH & SOUTH:	Morella	LOCATION #:	1	
	EAST & WEST:	Magnolia	CONTROL:	SIGNAL	

NOTES:

PCE Adjusted	1	2	3	4	5	6		
Class	1	2	3	4	5	6		
Factor	1	1.5	2	3	2	2		

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND (Morella)			SOUTHBOUND (Morella)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
LANES:	NL 1	NT 3	NR 0	SL 1	ST 3	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
PM 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
2:30 PM	5	0	8	4	0	1	1	189	6	4	141	1	360					0
2:45 PM	2	0	11	1	0	0	1	178	4	8	193	4	401					0
3:00 PM	1	1	2	6	0	9	4	196	4	6	161	8	397					0
3:15 PM	20	3	5	10	0	13	3	171	13	5	200	9	451					0
VOLUMES	28	4	26	21	0	23	9	734	27	23	694	22	1,609	0	0	0	0	0
APPROACH %	48%	7%	45%	47%	0%	53%	1%	95%	4%	3%	94%	3%						
APP/DEPART	58	/	35	44	/	50	770	/	780	738	/	744	0					
BEGIN PEAK HR		2:30 PM																
VOLUMES	28	4	26	21	0	23	9	734	27	23	694	22	1,609					
APPROACH %	48%	7%	45%	47%	0%	53%	1%	95%	4%	3%	94%	3%						
PEAK HR FACTOR		0.513			0.483			0.943			0.864		0.892					
APP/DEPART	58	/	35	44	/	50	770	/	780	738	/	744	0					
PM 03:30 PM	6	1	8	6	3	8	5	196	8	16	192	7	455					0
3:45 PM	3	0	9	7	0	2	0	178	3	15	225	4	445					0
4:00 PM	2	1	7	9	1	4	0	166	2	8	198	12	409					0
4:15 PM	2	0	1	3	0	5	1	203	3	11	198	6	432					0
4:30 PM	3	3	6	4	1	6	2	185	1	11	194	0	416					0
4:45 PM	2	2	2	4	0	8	1	188	0	3	209	8	427					0
5:00 PM	2	0	5	1	1	7	1	192	4	5	202	7	427					0
5:15 PM	2	0	6	3	0	8	2	214	2	4	210	8	459					0
5:30 PM	4	0	6	4	0	6	2	212	1	8	234	10	487					0
5:45 PM	0	1	3	3	0	7	3	200	4	7	235	18	481					0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
VOLUMES	25	8	53	44	6	60	17	1,933	28	88	2,095	79	4,435	0	0	0	0	0
APPROACH %	29%	9%	62%	40%	5%	55%	1%	98%	1%	4%	93%	3%						
APP/DEPART	86	/	104	110	/	122	1,978	/	2,030	2,261	/	2,180	0					
BEGIN PEAK HR		5:00 PM																
VOLUMES	8	1	20	11	1	28	8	818	11	24	880	43	1,852					
APPROACH %	28%	3%	69%	27%	3%	71%	1%	98%	1%	3%	93%	4%						
PEAK HR FACTOR		0.725			0.940			0.960			0.912		0.952					
APP/DEPART	29	/	52	40	/	36	837	/	849	947	/	916	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

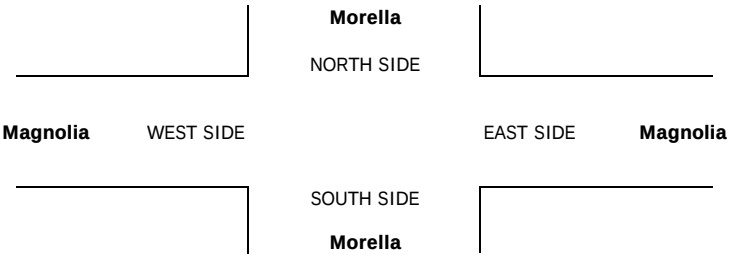
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Morella	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Morella			SOUTHBOUND Morella			EASTBOUND Magnolia			WESTBOUND Magnolia				U-TURNS				
LANES:	NL 1	NT 3	NR 0	SL 1	ST 3	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
PM 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	3	0	8	4	0	1	1	175	1	4	133	1	331	0	0	0	0	0
2:45 PM	2	0	11	1	0	0	1	170	4	8	183	4	384	0	0	0	3	3
3:00 PM	1	1	2	6	0	9	4	190	4	6	147	6	376	0	0	0	2	2
3:15 PM	14	3	5	8	0	13	3	168	13	5	190	9	431	0	0	0	0	0
VOLUMES	20	4	26	19	0	23	9	703	22	23	653	20	1,522	0	0	0	5	5
APPROACH %	40%	8%	52%	45%	0%	55%	1%	96%	3%	3%	94%	3%						
APP/DEPART	50	/	33	42	/	40	734	/	753	696	/	696	0					
BEGIN PEAK HR		2:30 PM																
VOLUMES	20	4	26	19	0	23	9	703	22	18	653	20	1,522					
APPROACH %	40%	8%	52%	45%	0%	55%	1%	96%	3%	3%	94%	3%						
PEAK HR FACTOR		0.568			0.500			0.927			0.853		0.883					
APP/DEPART	50	/	33	42	/	40	734	/	753	696	/	696	0					
PM 03:30 PM	6	1	8	6	3	8	5	183	8	16	180	5	429	0	0	0	1	1
3:45 PM	1	0	9	7	0	2	0	171	3	15	205	4	417	0	0	0	0	0
4:00 PM	2	1	7	9	1	2	0	161	2	8	190	10	393	0	0	0	0	0
4:15 PM	2	0	1	3	0	3	1	192	3	7	186	6	404	0	0	0	1	1
4:30 PM	1	3	6	4	1	6	2	178	1	7	188	0	397	0	0	0	0	0
4:45 PM	2	2	2	4	0	8	1	186	0	3	201	5	414	0	0	0	2	2
5:00 PM	2	0	5	1	1	7	1	178	4	5	194	7	405	0	0	0	0	0
5:15 PM	2	0	6	1	0	8	2	205	2	4	206	8	444	0	0	0	0	0
5:30 PM	4	0	6	4	0	6	2	203	1	8	229	10	473	0	0	0	0	0
5:45 PM	0	1	3	3	0	7	3	195	4	7	228	16	467	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	22	8	53	42	6	57	17	1,852	28	80	2,007	71	4,243	0	0	0	4	4
APPROACH %	27%	10%	64%	40%	6%	54%	1%	98%	1%	4%	93%	3%						
APP/DEPART	83	/	96	105	/	110	1,897	/	1,951	2,158	/	2,086	0					
BEGIN PEAK HR		5:00 PM																
VOLUMES	8	1	20	9	1	28	8	781	11	24	857	41	1,789					
APPROACH %	28%	3%	69%	24%	3%	74%	1%	98%	1%	3%	93%	4%						
PEAK HR FACTOR		0.725			0.950			0.957			0.918		0.946					
APP/DEPART	29	/	50	38	/	36	800	/	810	922	/	893	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

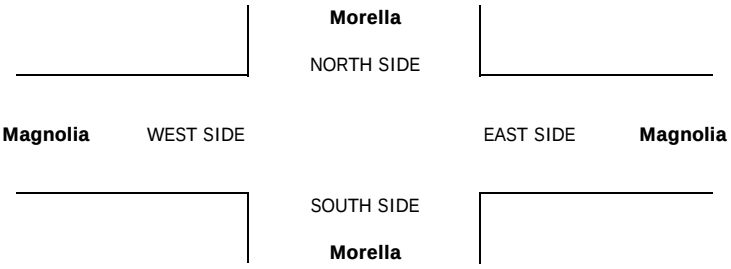
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Morella	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Morella)			SOUTHBOUND (Morella)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
	LANES:	NL 1	NT 3	NR 0	SL 1	ST 3	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	1	0	0	0	0	0	0	8	2	0	4	0	15	0	0	0	0	0
	2:45 PM	0	0	0	0	0	0	0	5	0	0	5	0	10	0	0	0	0	0
	3:00 PM	0	0	0	0	0	0	0	4	0	0	9	1	14	0	0	0	0	0
	3:15 PM	4	0	0	1	0	0	0	2	0	0	5	0	12	0	0	0	0	0
	VOLUMES	5	0	0	1	0	0	0	19	2	0	23	1	51	0	0	0	0	0
	APPROACH %	100%	0%	0%	100%	0%	0%	0%	90%	10%	0%	96%	4%						
	APP/DEPART	5	/	1	1	/	2	21	/	20	24	/	28	0					
	BEGIN PEAK HR		2:30 PM																
	VOLUMES	5	0	0	1	0	0	0	19	2	0	23	1	51					
	APPROACH %	100%	0%	0%	100%	0%	0%	0%	90%	10%	0%	96%	4%						
	PEAK HR FACTOR		0.313			0.250			0.525			0.600		0.850					
	APP/DEPART	5	/	1	1	/	2	21	/	20	24	/	28	0					
PM	03:30 PM	0	0	0	0	0	0	0	7	0	0	4	1	12	0	0	0	0	0
	3:45 PM	1	0	0	0	0	0	0	2	0	0	9	0	12	0	0	0	0	0
	4:00 PM	0	0	0	0	0	1	0	2	0	0	5	1	9	0	0	0	0	0
	4:15 PM	0	0	0	0	0	1	0	6	0	0	5	0	12	0	0	0	0	0
	4:30 PM	1	0	0	0	0	0	0	2	0	0	4	0	7	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	1	0	0	4	2	7	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	8	0	0	5	0	13	0	0	0	0	0
	5:15 PM	0	0	0	1	0	0	0	6	0	0	0	0	7	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	6	0	0	3	0	9	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	2	0	0	2	1	5	0	0	0	0	0
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	2	0	0	1	0	2	0	42	0	0	41	5	93	0	0	0	0	0
	APPROACH %	100%	0%	0%	33%	0%	67%	0%	100%	0%	0%	89%	11%						
	APP/DEPART	2	/	5	3	/	0	42	/	43	46	/	45	0					
	BEGIN PEAK HR		3:30 PM																
	VOLUMES	1	0	0	0	0	2	0	17	0	0	23	2	45					
	APPROACH %	100%	0%	0%	0%	0%	100%	0%	100%	0%	0%	92%	8%						
	PEAK HR FACTOR		0.250			0.500			0.607			0.694		0.938					
	APP/DEPART	1	/	2	2	/	0	17	/	17	25	/	26	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Morella	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND (Morella)			SOUTHBOUND (Morella)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
	LANES:	NL 1	NT 3	NR 0	SL 1	ST 3	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		12:30 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM	03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:30 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					

Morella

NORTH SIDE

Magnolia WEST SIDE EAST SIDE **Magnolia**

SOUTH SIDE

Morella

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

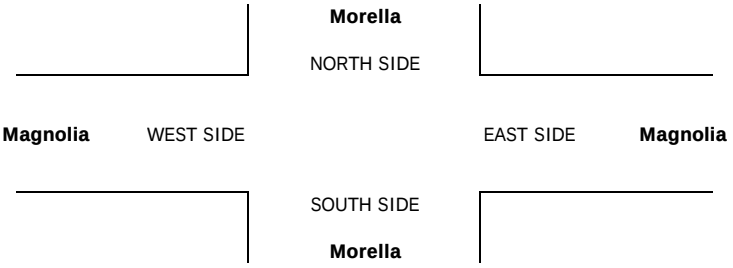
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Morella	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Morella			SOUTHBOUND Morella			EASTBOUND Magnolia			WESTBOUND Magnolia				U-TURNS				
LANES:	NL 1	NT 3	NR 0	SL 1	ST 3	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
PM 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		12:30 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM 03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:30 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

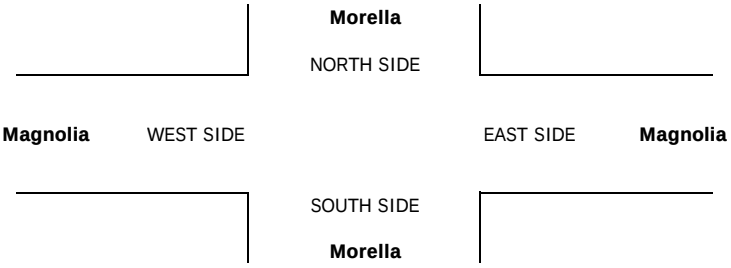
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Morella	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Morella			SOUTHBOUND Morella			EASTBOUND Magnolia			WESTBOUND Magnolia				U-TURNS				
LANES:	NL 1	NT 3	NR 0	SL 1	ST 3	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
PM 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		12:30 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM 03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:30 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



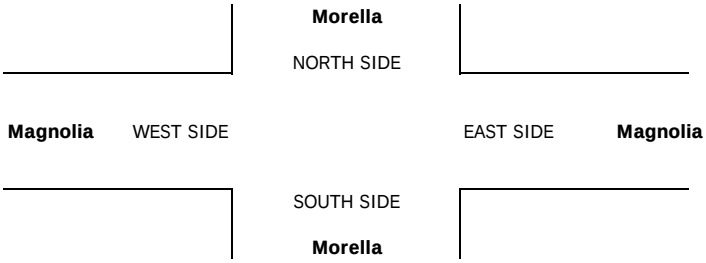
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Morella	LOCATION #:	1
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 6:	NOTES:	AM / PM / MD / OTHER / OTHER	▲ N ◄ W E ► S ▼
BUSES			

		NORTHBOUND (Morella)			SOUTHBOUND (Morella)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
	LANES:	NL 1	NT 3	NR 0	SL 1	ST 3	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB	SB	EB	WB	TTL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	0	0	0	0	0	0	0	1	1	0	1	0	3	0	0	0	0	0
	2:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	1	1	0	3	0	5	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	50%	50%	0%	100%	0%						
	APP/DEPART	0	/	0	0	/	1	2	/	1	3	/	3	0					
	BEGIN PEAK HR		2:30 PM																
	VOLUMES	0	0	0	0	0	0	0	1	1	0	3	0	5					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	50%	50%	0%	100%	0%						
	PEAK HR FACTOR		0.000			0.000			0.250			0.750		0.417					
	APP/DEPART	0	/	0	0	/	1	2	/	1	3	/	3	0					
PM	03:30 PM	0	0	0	0	0	0	0	1	0	0	3	0	4	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	2	0	0	3	0	5	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	1	0	2	2	0	5	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	2	0	2	0	0	4	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	1	0	0	2	0	3	0	0	0	0	0
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	9	0	4	13	0	26	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	24%	76%	0%						
	APP/DEPART	0	/	0	0	/	4	9	/	9	17	/	13	0					
	BEGIN PEAK HR		3:30 PM																
	VOLUMES	0	0	0	0	0	0	0	6	0	4	5	0	15					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	44%	56%	0%						
	PEAK HR FACTOR		0.000			0.000			0.750			0.563		0.750					
	APP/DEPART	0	/	0	0	/	4	6	/	6	9	/	5	0					



INTERSECTION TURNING MOVEMENT COUNTS

T816

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Oct 26, 16

LOCATION: North Hollywood
NORTH & SOUTH: Colfax
EAST & WEST: Magnolia

PROJECT #: SC1112
LOCATION #: 2
CONTROL: SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

Add U-Turns to Left Turns

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)			
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL
AM	7:00 AM	7	27	25	44	116	20	9	126	18	25	103	8	528
	7:15 AM	14	49	23	40	120	47	13	164	25	35	123	19	672
	7:30 AM	21	85	36	27	103	48	6	173	28	22	175	26	750
	7:45 AM	19	94	67	31	110	62	8	180	31	31	172	31	836
	8:00 AM	18	98	52	35	124	34	9	195	24	21	159	10	779
	8:15 AM	11	67	68	41	141	10	17	202	19	24	158	14	772
	8:30 AM	11	52	32	45	132	9	5	187	12	29	144	8	666
	8:45 AM	15	69	34	32	151	15	11	197	12	25	116	9	686
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	116	541	337	295	997	245	78	1,424	169	212	1,150	125	5,689
	APPROACH %	12%	54%	34%	19%	65%	16%	5%	85%	10%	14%	77%	8%	
	APP/DEPART	994	/	744	1,537	/	1,378	1,671	/	2,056	1,487	/	1,511	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	69	344	223	134	478	154	40	750	102	98	664	81	3,137
	APPROACH %	11%	54%	35%	17%	62%	20%	4%	84%	11%	12%	79%	10%	
	PEAK HR FACTOR		0.883			0.943			0.937			0.901		0.938
	APP/DEPART	636	/	465	766	/	678	892	/	1,107	843	/	887	0
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		3:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS					
	NB	SB	EB	WB	TTL
	X	X	X	X	
AM	0	0	0	0	0
PM	0	0	0	0	0



	ALL PED AND BIKE				
	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
AM 7:00 AM	2	3	6	3	14
7:15 AM	0	25	39	44	108
7:30 AM	104	50	89	85	328
7:45 AM	84	60	73	54	271
8:00 AM	12	9	19	14	54
8:15 AM	13	2	16	2	33
8:30 AM	11	2	17	11	41
8:45 AM	4	3	8	6	21
9:00 AM	0	0	0	0	0
9:15 AM	0	0	0	0	0
9:30 AM	0	0	0	0	0
9:45 AM	0	0	0	0	0
TOTAL	230	154	267	219	870
PM 3:00 PM	0	0	0	0	0
3:15 PM	0	0	0	0	0
3:30 PM	0	0	0	0	0
3:45 PM	0	0	0	0	0
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL	0	0	0	0	0

	PEDESTRIAN CROSSINGS				
	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
AM 7:00 AM	0	1	2	3	6
7:15 AM	0	5	4	7	16
7:30 AM	24	15	20	26	85
7:45 AM	31	26	23	32	112
8:00 AM	7	5	10	13	35
8:15 AM	11	2	8	2	23
8:30 AM	6	1	13	7	27
8:45 AM	2	2	4	4	12
9:00 AM	0	0	0	0	0
9:15 AM	0	0	0	0	0
9:30 AM	0	0	0	0	0
9:45 AM	0	0	0	0	0
TOTAL	81	57	84	94	316
PM 3:00 PM	0	0	0	0	0
3:15 PM	0	0	0	0	0
3:30 PM	0	0	0	0	0
3:45 PM	0	0	0	0	0
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL	0	0	0	0	0

	BICYCLE CROSSINGS				
	NS	SS	ES	WS	TOTAL
AM 7:00 AM	0	0	0	0	0
7:15 AM	0	0	2	1	3
7:30 AM	2	0	1	2	5
7:45 AM	0	0	1	1	2
8:00 AM	0	2	1	0	3
8:15 AM	0	0	1	0	1
8:30 AM	0	1	1	4	6
8:45 AM	0	0	1	1	2
9:00 AM	0	0	0	0	0
9:15 AM	0	0	0	0	0
9:30 AM	0	0	0	0	0
9:45 AM	0	0	0	0	0
TOTAL	2	3	8	9	22
PM 3:00 PM	0	0	0	0	0
3:15 PM	0	0	0	0	0
3:30 PM	0	0	0	0	0
3:45 PM	0	0	0	0	0
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL	0	0	0	0	0

	SCHOOL AGE PED				
	NS	SS	ES	WS	TOTAL
AM 7:00 AM	2	2	4	0	8
7:15 AM	0	20	33	36	89
7:30 AM	78	35	68	57	238
7:45 AM	53	34	49	21	157
8:00 AM	5	2	8	1	16
8:15 AM	2	0	7	0	9
8:30 AM	5	0	3	0	8
8:45 AM	2	1	3	1	7
9:00 AM	0	0	0	0	0
9:15 AM	0	0	0	0	0
9:30 AM	0	0	0	0	0
9:45 AM	0	0	0	0	0
TOTAL	147	94	175	116	532
PM 3:00 PM	0	0	0	0	0
3:15 PM	0	0	0	0	0
3:30 PM	0	0	0	0	0
3:45 PM	0	0	0	0	0
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL	0	0	0	0	0

City Of Los Angeles
Department Of Transportation
MANUAL TRAFFIC COUNT SUMMARY

STREET:
North / Sounth: Colfax

East/West: Magnolia

Day: WEDNESDAY Date: October 26, 2016 Weather: Sunny

Hours:

School Da: Yes District: I/S CODE:

	N/B	S/B	E/B	W/B
DUAL-WHEELED	25	83	62	52
BIKES	8	9	3	2
BUSES	3	25	7	16

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	180	7:45:00 AM	207	7:15:00 AM	238	8:15:00 AM	234	7:45:00 AM
PM PK 15 MIN	0	5:45:00 PM	203	7:15:00 AM	238	8:15:00 AM	234	7:45:00 AM
AM PK HOUR	636	7:30:00 AM	781	7:15:00 AM	892	7:30:00 AM	843	7:30:00 AM
PM PK HOUR	0	5:45:00 PM	0	5:45:00 PM	0	5:45:00 PM	0	5:45:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	61	255	151	467
8-9	55	286	186	527
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	116	541	337	994

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	142	449	177	768
8-9	152	658	68	878
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	294	1107	245	1646

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
1235	47	91	55	133
1405	10	3	26	14
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
2640	57	94	81	147

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	36	643	102	781
8-9	42	1426	67	1535
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	78	2069	169	2316

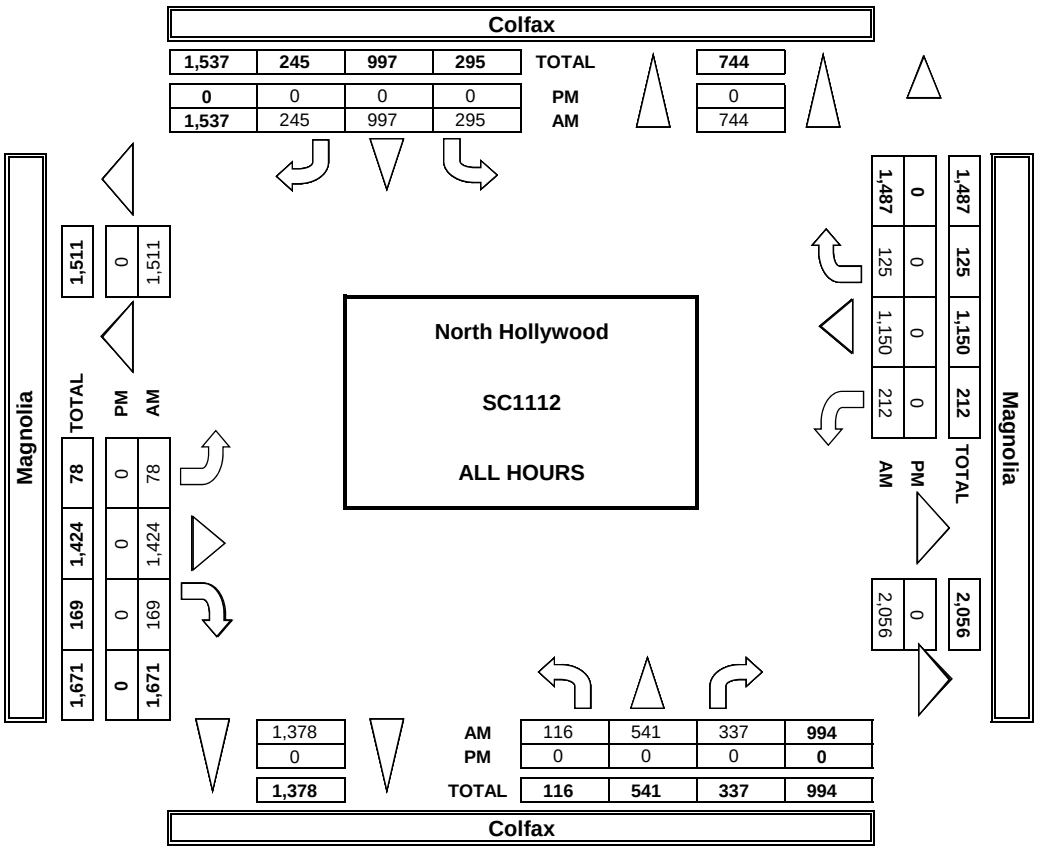
WESTBOUND Approach

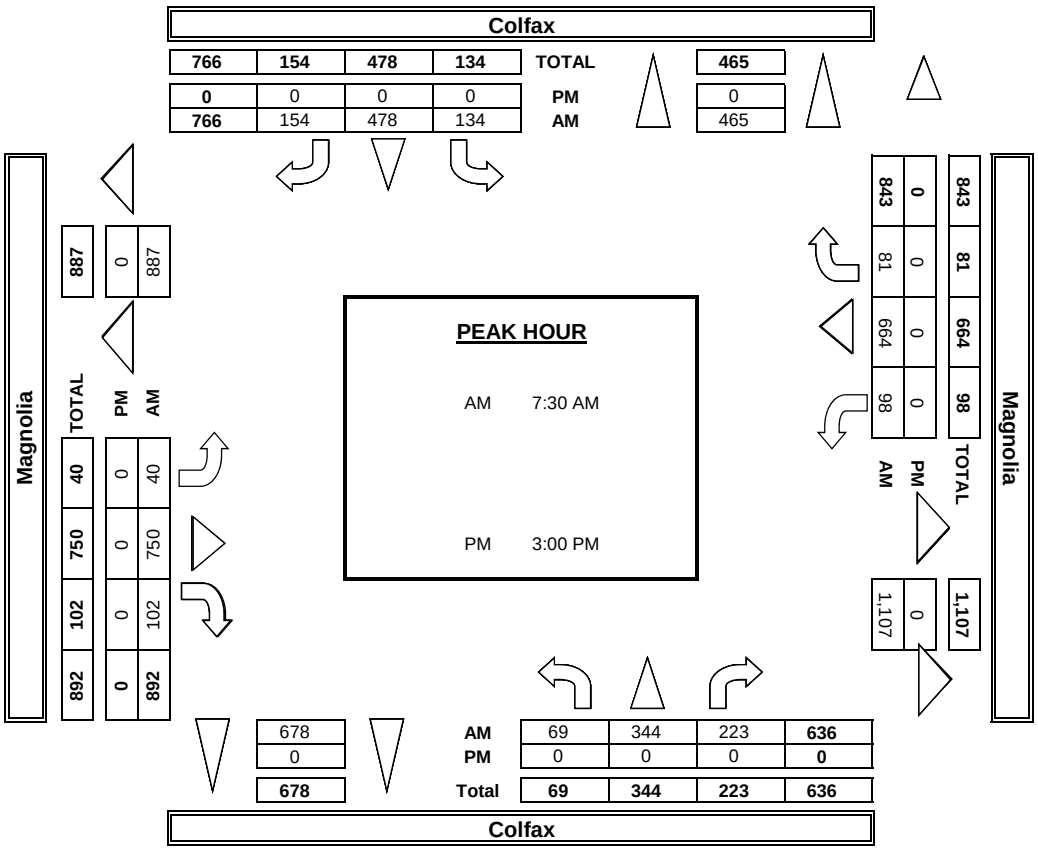
Hours	Lt	Th	Rt	Total
7-8	113	573	84	770
8-9	99	577	41	717
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	212	1150	125	1487

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
1551	68	114	49	154
2252	26	2	35	21
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
3803	94	116	84	175

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

NOTES:

PCE Adjusted								
Class	1	2	3	4	5	6		
Factor	1	1.5	2	3	2	2		

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM 7:00 AM	7	27	26	46	121	20	9	131	19	26	111	8	550					0
7:15 AM	15	49	23	42	125	48	14	168	25	37	127	20	689					0
7:30 AM	22	87	39	33	107	49	6	178	28	25	178	26	776					0
7:45 AM	20	94	69	32	113	62	8	184	33	32	172	32	848					0
8:00 AM	20	99	52	37	132	35	9	199	24	21	167	11	803					0
8:15 AM	11	68	69	43	158	12	17	207	20	25	161	15	803					0
8:30 AM	11	53	32	48	140	9	5	195	12	30	149	9	691					0
8:45 AM	16	72	36	35	158	15	11	206	13	27	122	10	720					0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
VOLUMES	120	548	345	313	1,052	248	79	1,466	173	222	1,185	129	5,878	0	0	0	0	0
APPROACH %	12%	54%	34%	19%	65%	15%	5%	85%	10%	14%	77%	8%						
APP/DEPART	1,013	/	755	1,613	/	1,447	1,718	/	2,124	1,535	/	1,553	0					
BEGIN PEAK HR		7:30 AM																
VOLUMES	72	348	228	144	509	157	40	767	105	103	677	83	3,229					
APPROACH %	11%	54%	35%	18%	63%	19%	4%	84%	11%	12%	79%	10%						
PEAK HR FACTOR		0.889			0.953			0.938			0.915		0.952					
APP/DEPART	648	/	470	809	/	716	912	/	1,139	862	/	905	0					
PM 03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		5:45 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND Magnolia			WESTBOUND Magnolia				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	7	27	24	42	106	20	9	120	17	23	93	8	496	0	0	0	0	0
	7:15 AM	13	49	23	38	114	46	12	156	25	33	118	18	645	0	0	0	0	0
	7:30 AM	19	82	34	21	96	47	6	166	28	19	172	26	716	0	0	0	0	0
	7:45 AM	18	94	65	30	105	62	8	174	30	29	172	30	817	0	0	0	0	0
	8:00 AM	16	96	52	32	113	33	9	190	24	21	146	9	741	0	0	0	0	0
	8:15 AM	11	66	67	39	121	8	17	194	18	23	154	13	731	0	0	0	0	0
	8:30 AM	11	51	32	43	119	9	5	178	12	28	139	7	634	0	0	0	0	0
	8:45 AM	14	64	31	30	140	15	11	182	11	24	106	8	636	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	109	529	328	275	914	240	77	1,360	165	200	1,100	119	5,416	0	0	0	0	0
	APPROACH %	11%	55%	34%	19%	64%	17%	5%	85%	10%	14%	78%	8%						
	APP/DEPART	966	/	725	1,429	/	1,279	1,602	/	1,963	1,419	/	1,449	0					
	BEGIN PEAK HR		7:30 AM																
	VOLUMES	64	338	218	122	435	150	40	724	100	92	644	78	3,005					
	APPROACH %	10%	55%	35%	17%	62%	21%	5%	84%	12%	11%	79%	10%						
	PEAK HR FACTOR		0.876			0.897			0.943			0.881		0.920					
	APP/DEPART	620	/	456	707	/	627	864	/	1,064	814	/	858	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					

Colfax

NORTH SIDE

Magnolia WEST SIDE EAST SIDE **Magnolia**

SOUTH SIDE

Colfax

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

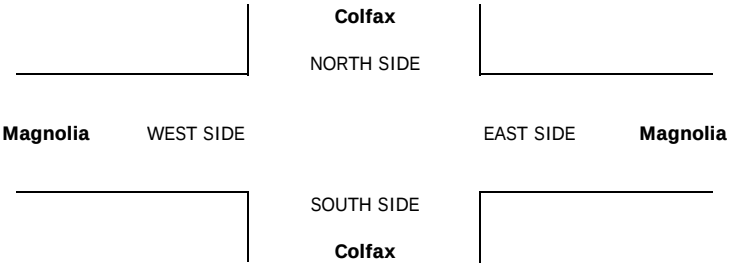
CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	1	10	0	0	3	1	2	4	0	21	0	0	0	0	0
	7:15 AM	1	0	0	1	3	1	1	8	0	1	3	1	20	0	0	0	0	0
	7:30 AM	2	2	1	0	7	1	0	4	0	1	1	0	19	0	0	0	0	0
	7:45 AM	1	0	1	1	5	0	0	5	0	2	0	1	16	0	0	0	0	0
	8:00 AM	1	2	0	3	7	1	0	4	0	0	11	1	30	0	0	0	0	0
	8:15 AM	0	1	0	1	10	1	0	7	1	0	3	1	25	0	0	0	0	0
	8:30 AM	0	1	0	1	10	0	0	5	0	1	3	0	21	0	0	0	0	0
	8:45 AM	1	4	2	1	8	0	0	12	0	0	8	1	37	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	6	10	4	9	60	4	1	48	2	7	33	5	189	0	0	0	0	0
	APPROACH %	30%	50%	20%	12%	82%	5%	2%	94%	4%	16%	73%	11%						
	APP/DEPART	20	/	16	73	/	69	51	/	61	45	/	43	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	2	8	2	6	35	2	0	28	1	1	25	3	113					
	APPROACH %	17%	67%	17%	14%	81%	5%	0%	97%	3%	3%	86%	10%						
	PEAK HR FACTOR		0.429			0.896			0.604			0.604		0.764					
	APP/DEPART	12	/	11	43	/	37	29	/	36	29	/	29	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

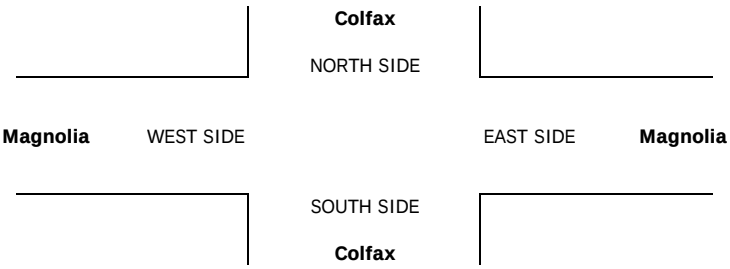
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	2	0	0	1	0	3	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	7:30 AM	0	1	0	0	0	0	0	1	0	0	1	0	3	0	0	0	0	0
	7:45 AM	0	0	1	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	8:15 AM	0	0	0	0	1	1	0	0	0	0	0	0	2	0	0	0	0	0
	8:30 AM	0	0	0	0	1	0	0	3	0	0	0	0	4	0	0	0	0	0
	8:45 AM	0	1	1	0	3	0	0	1	0	0	1	0	7	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	2	2	0	5	1	0	8	0	0	5	0	23	0	0	0	0	0
	APPROACH %	0%	50%	50%	0%	83%	17%	0%	100%	0%	0%	100%	0%						
	APP/DEPART	4	/	2	6	/	5	8	/	10	5	/	6	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	1	1	0	5	1	0	4	0	0	2	0	14					
	APPROACH %	0%	50%	50%	0%	83%	17%	0%	100%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.250			0.500			0.333			0.500		0.500					
	APP/DEPART	2	/	1	6	/	5	4	/	5	2	/	3	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

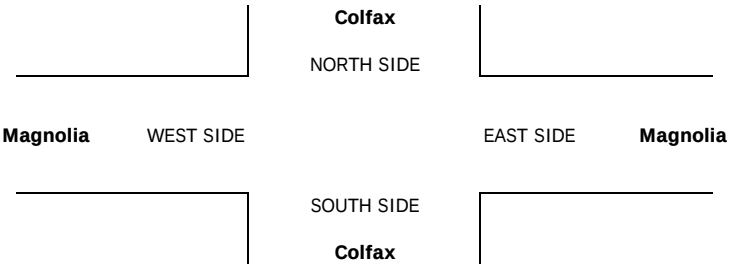
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND Magnolia			WESTBOUND Magnolia				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM																		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
8:15 AM	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0
8:30 AM	0	0	0	1	0	0	0	1	0	0	1	0	3	0	0	0	0	0
8:45 AM	0	0	0	1	0	0	0	0	0	1	0	0	2	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	1	2	2	0	0	2	1	1	1	0	10	0	0	0	0	0
APPROACH %	0%	0%	100%	50%	50%	0%	0%	67%	33%	50%	50%	0%						
APP/DEPART	1	/	0	4	/	4	3	/	5	2	/	1	0					
BEGIN PEAK HR		8:00 AM																
VOLUMES	0	0	0	2	2	0	0	2	0	1	1	0	8					
APPROACH %	0%	0%	0%	50%	50%	0%	0%	100%	0%	50%	50%	0%						
PEAK HR FACTOR		0.000			0.500			0.500			0.500		0.667					
APP/DEPART	0	/	0	4	/	3	2	/	4	2	/	1	0					
PM																		
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

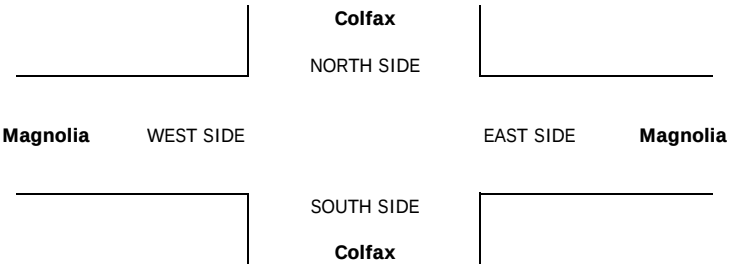
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



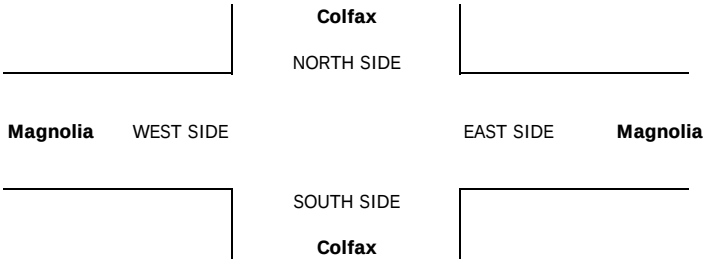
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 6:	NOTES:	AM / PM / MD / OTHER / OTHER
BUSES		▲ N ◄ W E ► S ▼

	NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND Magnolia			WESTBOUND Magnolia				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
AM 7:00 AM	0	0	1	1	0	0	0	1	0	0	5	0	8	0	0	0	0	0
7:15 AM	0	0	0	1	3	0	0	0	0	1	1	0	6	0	0	0	0	0
7:30 AM	0	0	0	6	0	0	0	2	0	2	1	0	11	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	1	0	0	0	4	0	0	0	0	0	1	0	6	0	0	0	0	0
8:15 AM	0	0	1	1	7	0	0	1	0	1	1	0	12	0	0	0	0	0
8:30 AM	0	0	0	0	2	0	0	0	0	0	1	1	4	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	2	1	0	1	0	4	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	1	0	2	9	16	0	0	6	1	4	11	1	51	0	0	0	0	0
APPROACH %	33%	0%	67%	36%	64%	0%	0%	86%	14%	25%	69%	6%						
APP/DEPART	3	/	1	25	/	21	7	/	17	16	/	12	0					
BEGIN PEAK HR		7:30 AM																
VOLUMES	1	0	1	7	11	0	0	3	0	3	3	0	29					
APPROACH %	50%	0%	50%	39%	61%	0%	0%	100%	0%	50%	50%	0%						
PEAK HR FACTOR		0.500			0.563			0.375			0.500		0.604					
APP/DEPART	2	/	0	18	/	14	3	/	11	6	/	4	0					
PM 03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

T816

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Oct 26, 16

LOCATION: North Hollywood
NORTH & SOUTH: Colfax
EAST & WEST: Magnolia

PROJECT #: SC1112
LOCATION #: 2
CONTROL: SIGNAL

NOTES:

AM PM MD OTHER OTHER — ▲ N ◄ W E ► S ▼

Add U-Turns to Left Turns

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)			
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	16	74	42	19	61	10	8	155	17	26	118	11	557
	2:45 PM	23	84	43	13	74	19	12	155	20	23	156	15	637
	3:00 PM	21	93	45	18	72	20	16	175	22	34	135	29	680
	3:15 PM	20	94	60	31	64	35	6	156	16	18	158	32	690
	VOLUMES	80	345	190	81	271	84	42	641	75	101	567	87	2,564
	APPROACH %	13%	56%	31%	19%	62%	19%	6%	85%	10%	13%	75%	12%	
	APP/DEPART	615	/	474	436	/	447	758	/	912	755	/	731	0
	BEGIN PEAK HR		2:30 PM											
	VOLUMES	80	345	190	81	271	84	42	641	75	101	567	87	2,564
	APPROACH %	13%	56%	31%	19%	62%	19%	6%	85%	10%	13%	75%	12%	
	PEAK HR FACTOR		0.884			0.838			0.890			0.907		0.929
	APP/DEPART	615	/	474	436	/	447	758	/	912	755	/	731	0
PM	03:30 PM	21	84	57	28	71	34	18	180	13	25	143	24	698
	3:45 PM	23	106	51	25	76	21	14	175	16	32	186	22	747
	4:00 PM	24	114	50	22	85	21	14	147	19	28	168	20	712
	4:15 PM	22	114	61	18	53	18	14	188	11	31	167	26	723
	4:30 PM	20	122	65	22	63	17	16	160	10	21	156	29	701
	4:45 PM	19	122	57	16	78	17	6	181	18	24	178	14	730
	5:00 PM	18	117	65	19	64	15	9	169	14	29	184	21	724
	5:15 PM	31	132	56	21	89	29	18	182	12	31	174	30	805
	5:30 PM	24	125	57	21	109	22	20	181	19	33	188	28	827
	5:45 PM	38	116	40	18	98	24	16	161	30	25	191	25	782
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	240	1,152	559	210	786	218	145	1,724	162	279	1,735	239	7,449
	APPROACH %	12%	59%	29%	17%	65%	18%	7%	85%	8%	12%	77%	11%	
	APP/DEPART	1,951	/	1,536	1,214	/	1,227	2,031	/	2,493	2,253	/	2,193	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	111	490	218	79	360	90	63	693	75	118	737	104	3,138
	APPROACH %	14%	60%	27%	15%	68%	17%	8%	83%	9%	12%	77%	11%	
	PEAK HR FACTOR		0.935			0.870			0.944			0.963		0.949
	APP/DEPART	819	/	657	529	/	553	831	/	990	959	/	938	0

U-TURNS

NB	SB	EB	WB	TTL
X	X	X	X	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

Colfax

NORTH SIDE

Magnolia WEST SIDE EAST SIDE **Magnolia**

SOUTH SIDE

Colfax

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS					SCHOOL AGE PED				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL	NS	SS	ES	WS	TOTAL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	5	16	7	10	38	5	10	6	7	28	0	0	1	2	3	0	6	0	1	7
	2:45 PM	6	2	5	1	14	4	2	5	1	12	1	0	0	0	1	1	0	0	0	1
	3:00 PM	11	5	8	7	31	7	3	3	2	15	0	0	1	0	1	4	2	4	5	15
	3:15 PM	163	108	123	161	555	22	13	11	12	58	0	2	4	2	8	141	93	108	147	489
	TOTAL	185	131	143	179	638	38	28	25	22	113	1	2	6	4	13	146	101	112	153	512
PM	3:30 PM	90	75	110	85	360	2	3	9	6	20	2	0	2	2	6	86	72	99	77	334
	3:45 PM	60	36	38	35	169	27	7	13	10	57	0	1	1	0	2	33	28	24	25	110
	4:00 PM	21	13	20	11	65	14	11	12	8	45	0	1	0	0	1	7	1	8	3	19
	4:15 PM	22	8	14	9	53	11	6	7	5	29	0	0	1	1	2	11	2	6	3	22
	4:30 PM	19	9	21	11	60	14	3	11	6	34	0	0	1	1	2	5	6	9	4	24
	4:45 PM	19	17	31	21	88	11	10	20	17	58	0	2	2	1	5	8	5	9	3	25
	5:00 PM	30	19	40	16	105	14	12	10	7	43	2	1	0	4	7	14	6	30	5	55
	5:15 PM	20	5	19	6	50	10	4	12	5	31	0	0	0	0	0	10	1	7	1	19
	5:30 PM	27	13	38	13	91	9	4	23	6	42	0	0	0	0	0	18	9	15	7	49
	5:45 PM	18	15	21	13	67	9	4	5	8	26	1	3	6	1	11	8	8	10	4	30
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	326	210	352	220	1,108	121	64	122	78	385	5	8	13	10	36	200	138	217	132	687

City Of Los Angeles
Department Of Transportation
MANUAL TRAFFIC COUNT SUMMARY

STREET:
North / Sounth: Colfax

East/West: Magnolia

Day: WEDNESDAY Date: October 26, 2016 Weather: Sunny

Hours:

School Day: Yes District: I/S CODE:

	N/B	S/B	E/B	W/B
DUAL-WHEELED	97	48	69	79
BIKES	19	14	10	6
BUSES	10	21	10	18

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
PM 1 PK 15 MIN	174	3:15:00 PM	130	3:15:00 PM	213	3:00:00 PM	208	3:15:00 PM
PM 2 PK 15 MIN	219	5:15:00 PM	133	3:15:00 PM	213	3:00:00 PM	208	3:15:00 PM
PM 1 PK HOUR	615	2:30:00 PM	436	2:30:00 PM	758	2:30:00 PM	755	2:30:00 PM
PM 2 PK HOUR	824	4:30:00 PM	529	5:00:00 PM	831	5:00:00 PM	959	5:00:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	0	0	0
14:30-15:30	80	345	190	615
15:30-16:30	90	418	219	727
16:30-17:30	79	493	243	815
17:30-18:30	62	241	97	400
TOTAL	311	1497	749	2557

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	0	0	0
14:30-15:30	81	271	84	436
15:30-16:30	93	285	94	472
16:30-17:30	78	294	78	450
17:30-18:30	39	207	46	292
TOTAL	291	1057	302	1650

TOTAL / XING S/L / XING N/L

Hours	N-S	Ped	Sch	Ped	Sch
12:30-13:30	0	0	0	0	0
13:30-14:30	0	0	0	0	0
14:30-15:30	1051	28	101	38	146
15:30-16:30	1199	27	103	54	137
16:30-17:30	1265	29	18	49	37
17:30-18:30	692	8	17	18	26
TOTAL	4207	92	239	159	346

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	2	0	2
14:30-15:30	42	641	75	758
15:30-16:30	60	690	59	809
16:30-17:30	49	692	54	795
17:30-18:30	36	342	49	427
TOTAL	187	2367	237	2791

WESTBOUND Approach

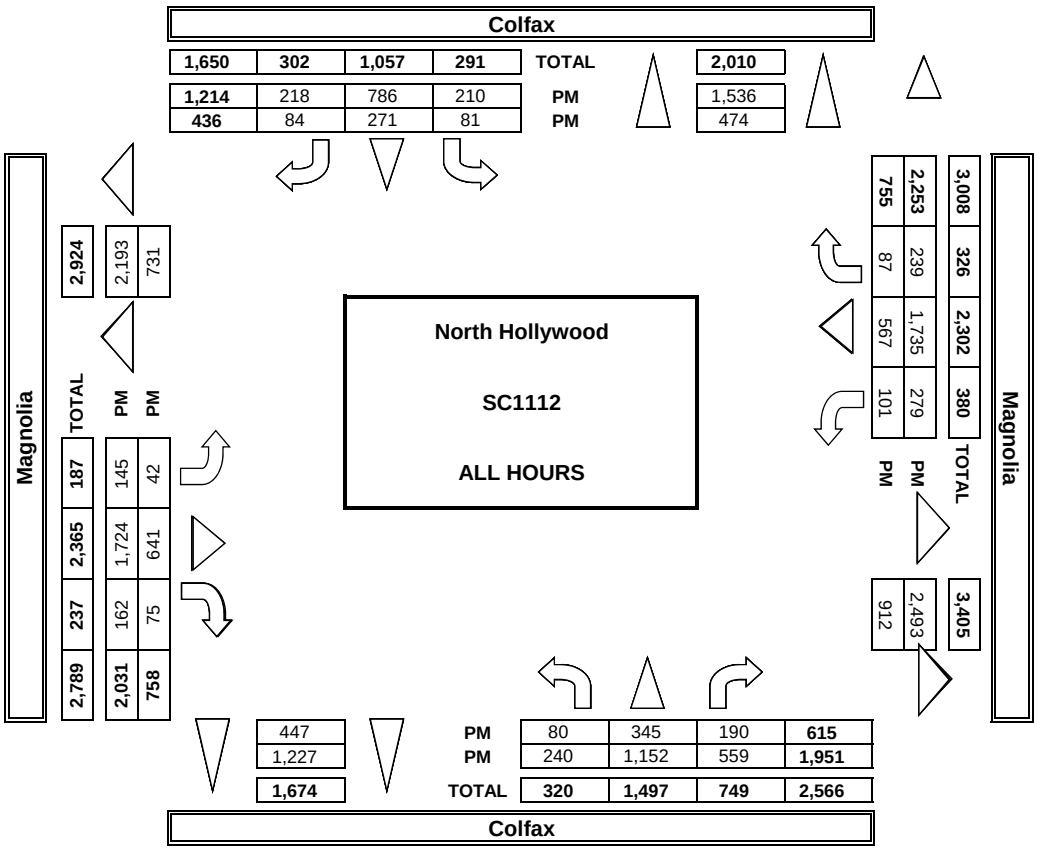
Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	0	0	0
14:30-15:30	101	567	87	755
15:30-16:30	116	664	92	872
16:30-17:30	105	692	94	891
17:30-18:30	58	379	53	490
TOTAL	380	2302	326	3008

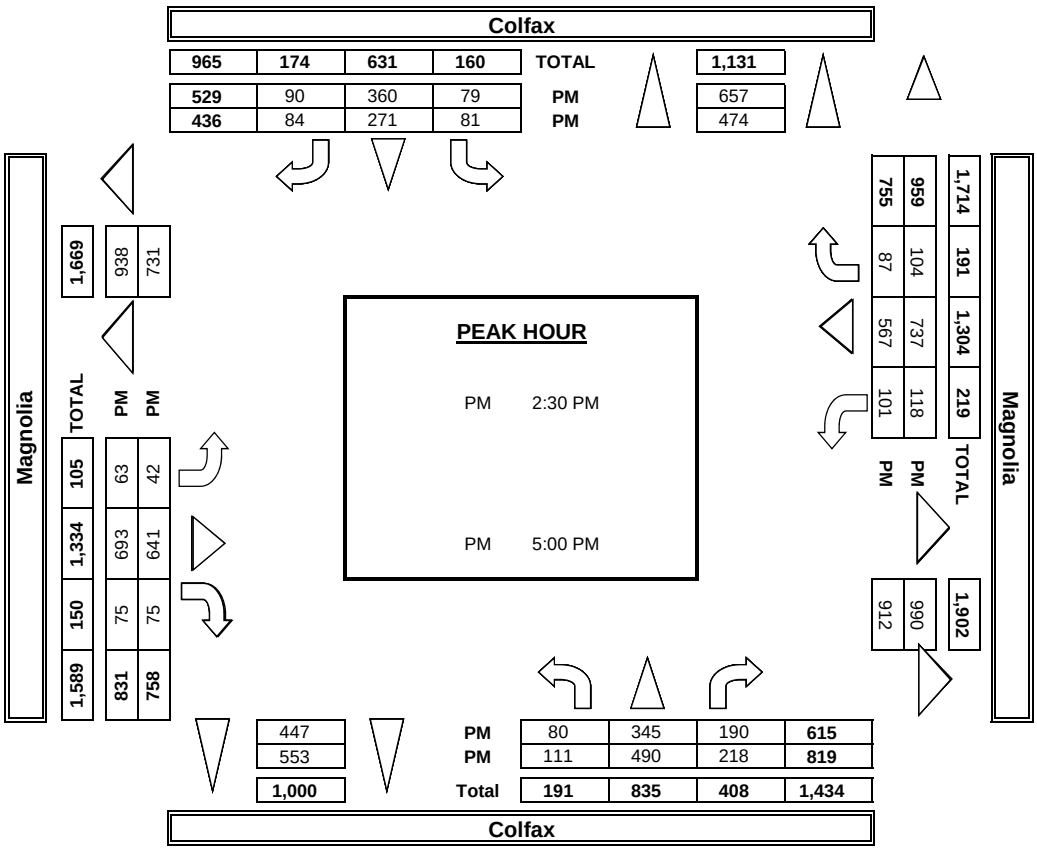
TOTAL / XING W/L / XING E/L

Hours	E-W	Ped	Sch	Ped	Sch
12:30-13:30	0	0	0	0	0
13:30-14:30	2	0	0	0	0
14:30-15:30	1513	22	153	25	112
15:30-16:30	1681	29	108	41	137
16:30-17:30	1686	35	13	53	55
17:30-18:30	917	14	11	28	25
TOTAL	5799	100	285	147	329

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:					
10/26/16	LOCATION:	North Hollywood	PROJECT #:	SC1112	
WEDNESDAY	NORTH & SOUTH:	Colfax	LOCATION #:	2	
	EAST & WEST:	Magnolia	CONTROL:	SIGNAL	

	NOTES:											
PCE	Class	1	2	3	4	5	6			AM		▲ N
Adjusted	Factor	1	1.5	2	3	2	2			PM		
										MD	◄ W	E ►
										OTHER		S
										OTHER		▼

		NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND Magnolia			WESTBOUND Magnolia				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	2:30 PM	17	77	43	20	64	11	8	160	18	27	120	12	574					0
	2:45 PM	23	85	45	14	76	20	12	158	20	26	160	16	653					0
	3:00 PM	22	97	46	20	74	21	16	177	22	34	138	29	694					0
	3:15 PM	20	97	62	33	67	36	7	157	16	18	161	34	706					0
	VOLUMES	82	355	196	86	279	87	43	652	76	105	578	90	2,626	0	0	0	0	0
	APPROACH %	13%	56%	31%	19%	62%	19%	6%	85%	10%	14%	75%	12%						
	APP/DEPART	632	/	488	452	/	460	770	/	933	772	/	746	0					
	BEGIN PEAK HR		2:30 PM																
	VOLUMES	82	355	196	86	279	87	43	652	76	105	578	90	2,626					
	APPROACH %	13%	56%	31%	19%	62%	19%	6%	85%	10%	14%	75%	12%						
	PEAK HR FACTOR		0.885			0.833			0.895			0.910		0.930					
	APP/DEPART	632	/	488	452	/	460	770	/	933	772	/	746	0					
PM	03:30 PM	22	86	57	35	72	37	19	186	13	26	145	25	720					0
	3:45 PM	23	111	52	27	76	21	14	180	16	32	194	23	768					0
	4:00 PM	25	116	51	23	89	21	14	152	19	28	171	21	729					0
	4:15 PM	23	119	67	19	54	19	14	193	12	31	172	27	749					0
	4:30 PM	20	125	69	23	65	17	16	164	10	22	160	31	720					0
	4:45 PM	19	127	61	17	80	18	6	182	18	24	181	14	746					0
	5:00 PM	18	119	66	20	65	16	9	174	14	29	186	23	738					0
	5:15 PM	31	134	57	22	90	29	18	186	12	32	176	30	815					0
	5:30 PM	25	127	57	21	110	22	21	182	20	33	190	28	833					0
	5:45 PM	38	117	40	18	99	24	16	163	30	26	195	26	791					0
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	VOLUMES	243	1,178	575	223	797	224	146	1,761	163	282	1,768	248	7,605	0	0	0	0	0
	APPROACH %	12%	59%	29%	18%	64%	18%	7%	85%	8%	12%	77%	11%						
	APP/DEPART	1,996	/	1,572	1,244	/	1,242	2,070	/	2,559	2,297	/	2,234	0					
	BEGIN PEAK HR		5:00 PM																
	VOLUMES	112	496	220	81	363	91	64	705	76	120	746	107	3,176					
	APPROACH %	13%	60%	27%	15%	68%	17%	8%	84%	9%	12%	77%	11%						
	PEAK HR FACTOR		0.935			0.875			0.950			0.970		0.953					
	APP/DEPART	827	/	666	534	/	558	844	/	1,005	972	/	948	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

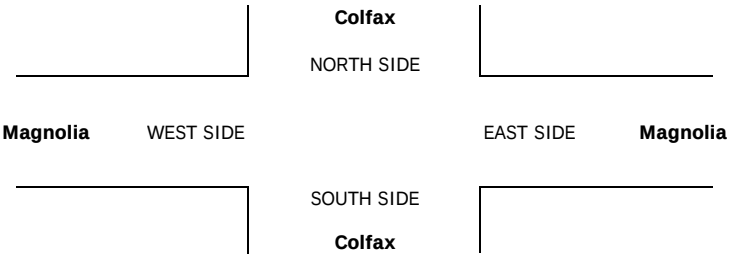
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
PM 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	15	68	40	18	56	9	8	147	16	24	115	10	526	0	0	0	0	0
2:45 PM	23	82	41	12	71	18	12	149	20	18	149	14	609	0	0	0	0	0
3:00 PM	20	87	43	16	69	18	16	171	22	34	130	29	655	0	0	0	0	0
3:15 PM	20	90	57	29	60	34	4	154	16	18	154	30	666	0	0	0	0	0
VOLUMES	78	327	181	75	256	79	40	621	74	94	548	83	2,456	0	0	0	0	0
APPROACH %	13%	56%	31%	18%	62%	19%	5%	84%	10%	13%	76%	11%						
APP/DEPART	586	/	450	410	/	424	735	/	877	725	/	705	0					
BEGIN PEAK HR		2:30 PM																
VOLUMES	78	327	181	75	256	79	40	621	74	94	548	83	2,456					
APPROACH %	13%	56%	31%	18%	62%	19%	5%	84%	10%	13%	76%	11%						
PEAK HR FACTOR		0.877			0.833			0.879			0.897		0.922					
APP/DEPART	586	/	450	410	/	424	735	/	877	725	/	705	0					
PM 03:30 PM	20	80	57	21	70	31	17	171	13	24	140	22	666	0	0	0	0	0
3:45 PM	23	98	50	23	76	21	14	169	16	32	175	20	717	0	0	0	0	0
4:00 PM	22	111	49	21	79	21	14	140	19	28	163	18	685	0	0	0	0	0
4:15 PM	21	107	51	17	51	17	14	180	10	31	159	24	682	0	0	0	0	0
4:30 PM	20	117	59	21	59	17	16	156	10	20	151	27	673	0	0	0	0	0
4:45 PM	19	114	51	15	75	15	6	179	18	24	173	14	703	0	0	0	0	0
5:00 PM	18	113	63	17	63	14	9	162	14	29	181	20	703	0	0	0	0	0
5:15 PM	31	129	55	20	88	29	18	178	12	29	172	30	791	0	0	0	0	0
5:30 PM	23	122	57	21	108	22	19	179	18	33	186	28	816	0	0	0	0	0
5:45 PM	38	115	40	18	97	24	16	158	30	24	185	24	769	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	235	1,106	532	194	766	211	143	1,672	160	274	1,685	227	7,205	0	0	0	0	0
APPROACH %	13%	59%	28%	17%	65%	18%	7%	85%	8%	13%	77%	10%						
APP/DEPART	1,873	/	1,476	1,171	/	1,200	1,975	/	2,398	2,186	/	2,131	0					
BEGIN PEAK HR		5:00 PM																
VOLUMES	110	479	215	76	356	89	62	677	74	115	724	102	3,079					
APPROACH %	14%	60%	27%	15%	68%	17%	8%	83%	9%	12%	77%	11%						
PEAK HR FACTOR		0.935			0.863			0.941			0.952		0.943					
APP/DEPART	804	/	643	521	/	545	813	/	968	941	/	923	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
PM 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	6	2	1	5	1	0	7	1	2	3	1	29	0	0	0	0	0
2:45 PM	0	2	1	1	3	1	0	6	0	4	6	1	25	0	0	0	0	0
3:00 PM	1	5	2	1	3	2	0	4	0	0	5	0	23	0	0	0	0	0
3:15 PM	0	3	2	0	3	0	2	2	0	0	3	1	16	0	0	0	0	0
VOLUMES	1	16	7	3	14	4	2	19	1	6	17	3	93	0	0	0	0	0
APPROACH %	4%	67%	29%	14%	67%	19%	9%	86%	5%	23%	65%	12%						
APP/DEPART	24	/	21	21	/	21	22	/	29	26	/	22	0					
BEGIN PEAK HR		2:30 PM																
VOLUMES	1	16	7	3	14	4	2	19	1	6	17	3	93					
APPROACH %	4%	67%	29%	14%	67%	19%	9%	86%	5%	23%	65%	12%						
PEAK HR FACTOR		0.750			0.750			0.688			0.591		0.802					
APP/DEPART	24	/	21	21	/	21	22	/	29	26	/	22	0					
PM 03:30 PM	1	4	0	1	1	0	1	6	0	1	3	2	20	0	0	0	0	0
3:45 PM	0	6	1	0	0	0	0	5	0	0	7	2	21	0	0	0	0	0
4:00 PM	2	2	1	1	5	0	0	4	0	0	4	2	21	0	0	0	0	0
4:15 PM	1	5	8	0	2	0	0	6	1	0	6	2	31	0	0	0	0	0
4:30 PM	0	5	4	1	4	0	0	1	0	1	3	0	19	0	0	0	0	0
4:45 PM	0	7	5	0	3	2	0	2	0	0	4	0	23	0	0	0	0	0
5:00 PM	0	4	2	2	1	1	0	4	0	0	3	0	17	0	0	0	0	0
5:15 PM	0	3	1	1	1	0	0	3	0	2	0	0	11	0	0	0	0	0
5:30 PM	1	3	0	0	1	0	1	2	1	0	1	0	10	0	0	0	0	0
5:45 PM	0	1	0	0	0	0	0	2	0	1	4	1	9	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	5	40	22	6	18	3	2	35	2	5	35	9	182	0	0	0	0	0
APPROACH %	7%	60%	33%	22%	67%	11%	5%	90%	5%	10%	71%	18%						
APP/DEPART	67	/	51	27	/	25	39	/	63	49	/	43	0					
BEGIN PEAK HR		4:00 PM																
VOLUMES	3	19	18	2	14	2	0	13	1	1	17	4	94					
APPROACH %	8%	48%	45%	11%	78%	11%	0%	93%	7%	5%	77%	18%						
PEAK HR FACTOR		0.714			0.750			0.500			0.688		0.758					
APP/DEPART	40	/	23	18	/	16	14	/	33	22	/	22	0					

Colfax

NORTH SIDE

Magnolia WEST SIDE EAST SIDE **Magnolia**

SOUTH SIDE

Colfax

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	3:15 PM	0	1	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0
	VOLUMES	0	2	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%						
	APP/DEPART	2	/	2	0	/	0	0	/	0	1	/	1	0					
	BEGIN PEAK HR		2:30 PM																
	VOLUMES	0	2	0	0	0	0	0	0	0	0	1	0	3					
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.500			0.000			0.000			0.250		0.375					
	APP/DEPART	2	/	2	0	/	0	0	/	0	1	/	1	0					
PM	03:30 PM	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
	3:45 PM	0	2	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	2	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	4	0	0	0	0	0	6	0	0	2	0	12	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	APP/DEPART	4	/	4	0	/	0	6	/	6	2	/	2	0					
	BEGIN PEAK HR		3:30 PM																
	VOLUMES	0	4	0	0	0	0	0	3	0	0	1	0	8					
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.500			0.000			0.375			0.250		0.667					
	APP/DEPART	4	/	4	0	/	0	3	/	3	1	/	1	0					

Colfax

NORTH SIDE

Magnolia WEST SIDE EAST SIDE **Magnolia**

SOUTH SIDE

Colfax

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

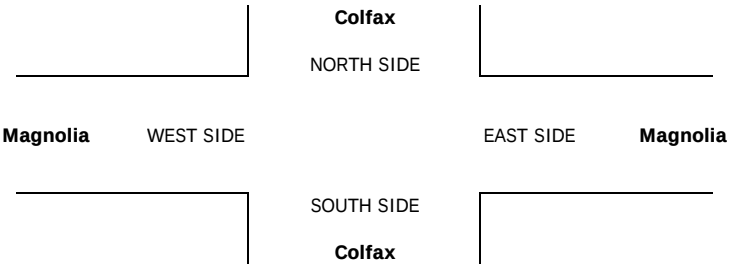
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND Magnolia			WESTBOUND Magnolia				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
PM 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		12:30 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM 03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	2	0	0	0	1	3	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%						
APP/DEPART	0	/	1	0	/	0	2	/	2	1	/	0	0					
BEGIN PEAK HR		4:30 PM																
VOLUMES	0	0	0	0	0	0	0	1	0	0	0	1	2					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	100%						
PEAK HR FACTOR		0.000			0.000			0.250			0.250		0.500					
APP/DEPART	0	/	1	0	/	0	1	/	1	1	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

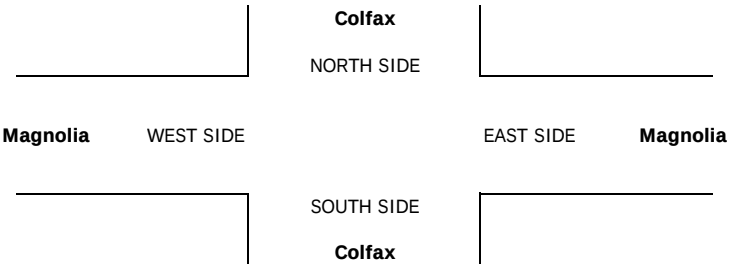
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND Magnolia			WESTBOUND Magnolia				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		12:30 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM	03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:30 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



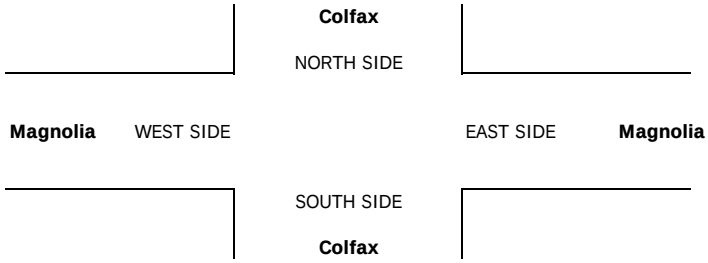
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	2
WEDNESDAY	EAST & WEST:	Magnolia	CONTROL:	SIGNAL

CLASS 6:	NOTES:	AM / PM / MD / OTHER / OTHER
BUSES		▲ N ◄ W E ► S ▼

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Magnolia)			WESTBOUND (Magnolia)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 2	ER 0	WL 1	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	1	0	0	0	0	0	0	1	0	0	0	0	2	0	0	0	0	0
	2:45 PM	0	0	1	0	0	0	0	0	0	1	1	0	3	0	0	0	0	0
	3:00 PM	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	3:15 PM	0	0	1	2	1	1	0	0	0	0	0	1	6	0	0	0	0	0
	VOLUMES	1	0	2	3	1	1	0	1	0	1	1	1	12	0	0	0	0	0
	APPROACH %	33%	0%	67%	60%	20%	20%	0%	100%	0%	33%	33%	33%						
	APP/DEPART	3	/	1	5	/	2	1	/	6	3	/	3	0					
	BEGIN PEAK HR		2:30 PM																
	VOLUMES	1	0	2	3	1	1	0	1	0	1	1	1	12					
	APPROACH %	33%	0%	67%	60%	20%	20%	0%	100%	0%	33%	33%	33%						
	PEAK HR FACTOR		0.750			0.313			0.250			0.375		0.500					
	APP/DEPART	3	/	1	5	/	2	1	/	6	3	/	3	0					
PM	03:30 PM	0	0	0	6	0	3	0	1	0	0	0	0	10	0	0	0	0	0
	3:45 PM	0	0	0	2	0	0	0	0	0	0	3	0	5	0	0	0	0	0
	4:00 PM	0	1	0	0	1	0	0	3	0	0	1	0	6	0	0	0	0	0
	4:15 PM	0	0	2	1	0	1	0	1	0	0	2	0	7	0	0	0	0	0
	4:30 PM	0	0	2	0	0	0	0	2	0	0	2	2	8	0	0	0	0	0
	4:45 PM	0	1	1	1	0	0	0	0	0	0	1	0	4	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	1	0	0	1	0	0	2	0	4	0	0	0	0	0
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	2	5	10	2	4	0	9	0	0	13	2	47	0	0	0	0	0
	APPROACH %	0%	29%	71%	63%	13%	25%	0%	100%	0%	0%	87%	13%						
	APP/DEPART	7	/	4	16	/	2	9	/	24	15	/	17	0					
	BEGIN PEAK HR		3:30 PM																
	VOLUMES	0	1	2	9	1	4	0	5	0	0	6	0	28					
	APPROACH %	0%	33%	67%	64%	7%	29%	0%	100%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.375			0.389			0.417			0.500		0.700					
	APP/DEPART	3	/	1	14	/	1	5	/	16	6	/	10	0					



INTERSECTION TURNING MOVEMENT COUNTS

T816

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Oct 26, 16

LOCATION: North Hollywood
NORTH & SOUTH: Colfax
EAST & WEST: McCormick

PROJECT #: SC1112
LOCATION #: 3
CONTROL: SIGNAL

NOTES:
SB queue

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

Add U-Turns to Left Turns

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (McCormick)			WESTBOUND (McCormick)				U-TURNS				
	LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL	NB X	SB X	EB X	WB X	TTL
AM	7:00 AM	0	38	0	8	176	0	0	0	0	4	0	4	230	0	2	0	0	2
	7:15 AM	0	71	12	13	198	0	0	0	0	5	0	14	313	0	3	0	0	3
	7:30 AM	0	108	11	13	176	0	0	0	0	13	0	21	342	0	0	0	0	0
	7:45 AM	0	126	19	23	178	0	0	0	0	19	0	35	400	0	1	0	0	1
	8:00 AM	0	113	9	21	178	0	0	0	0	4	0	10	335	0	2	0	0	2
	8:15 AM	0	85	9	5	185	0	0	0	0	3	0	4	291	0	1	0	0	1
	8:30 AM	0	53	8	3	180	0	0	0	0	2	0	3	249	0	0	0	0	0
	8:45 AM	0	81	9	1	202	0	0	0	0	1	0	2	296	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	675	77	87	1,473	0	0	0	0	51	0	93	2,456	0	9	0	0	9
	APPROACH %	0%	90%	10%	6%	94%	0%	0%	0%	0%	35%	0%	65%						
	APP/DEPART	752	/	777	1,560	/	1,524	0	/	155	144	/	0	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	418	51	70	730	0	0	0	0	41	0	80	1,390					
	APPROACH %	0%	89%	11%	9%	91%	0%	0%	0%	0%	34%	0%	66%						
	PEAK HR FACTOR		0.809			0.948			0.000			0.560		0.869					
	APP/DEPART	469	/	504	800	/	771	0	/	115	121	/	0	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					

Colfax
NORTH SIDE

McCormick — WEST SIDE — EAST SIDE — McCormick

SOUTH SIDE
Colfax

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS					SCHOOL AGE PED				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	0	31	9	0	40	0	0	4	0	4	0	0	0	0	0	0	31	5	0	36
	7:15 AM	0	64	31	1	96	0	2	4	0	6	0	0	1	1	2	0	62	26	0	88
	7:30 AM	0	116	42	2	160	0	3	6	0	9	0	0	1	2	3	0	113	35	0	148
	7:45 AM	0	200	52	1	253	0	6	9	0	15	0	0	2	1	3	0	194	41	0	235
	8:00 AM	0	42	18	0	60	0	1	4	0	5	0	0	1	0	1	0	41	13	0	54
	8:15 AM	2	13	10	0	25	1	4	7	0	12	0	0	2	0	2	1	9	1	0	11
	8:30 AM	0	10	6	4	20	0	2	4	0	6	0	0	1	4	5	0	8	1	0	9
	8:45 AM	0	27	16	1	44	0	15	13	0	28	0	0	1	1	2	0	12	2	0	14
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	2	503	184	9	698	1	33	51	0	85	0	0	9	9	18	1	470	124	0	595
PM	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

City Of Los Angeles
Department Of Transportation
MANUAL TRAFFIC COUNT SUMMARY

STREET:
North / Sounth: Colfax

East/West: McCormick

Day: WEDNESDAY Date: October 26, 2016 Weather: Sunny

Hours:

School Da: Yes District: I/S CODE:

	N/B	S/B	E/B	W/B
DUAL-WHEELED	20	82	0	1
BIKES	9	9	0	0
BUSES	1	27	0	0

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	145	7:45:00 AM	211	7:15:00 AM	0	9:45:00 AM	54	7:45:00 AM
PM PK 15 MIN	0	5:45:00 PM	203	7:15:00 AM	0	9:45:00 AM	54	7:45:00 AM
AM PK HOUR	480	7:30:00 AM	800	7:15:00 AM	0	9:45:00 AM	121	7:15:00 AM
PM PK HOUR	0	5:45:00 PM	0	5:45:00 PM	0	5:45:00 PM	0	5:45:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	343	42	385
8-9	0	332	35	367
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	0	675	77	752

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	57	728	0	785
8-9	52	923	0	975
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	109	1651	0	1760

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
1170	11	400	0	0
1342	22	70	1	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
2512	33	470	1	1

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	0	0	0	0
8-9	0	0	0	0
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	0	0	0	0

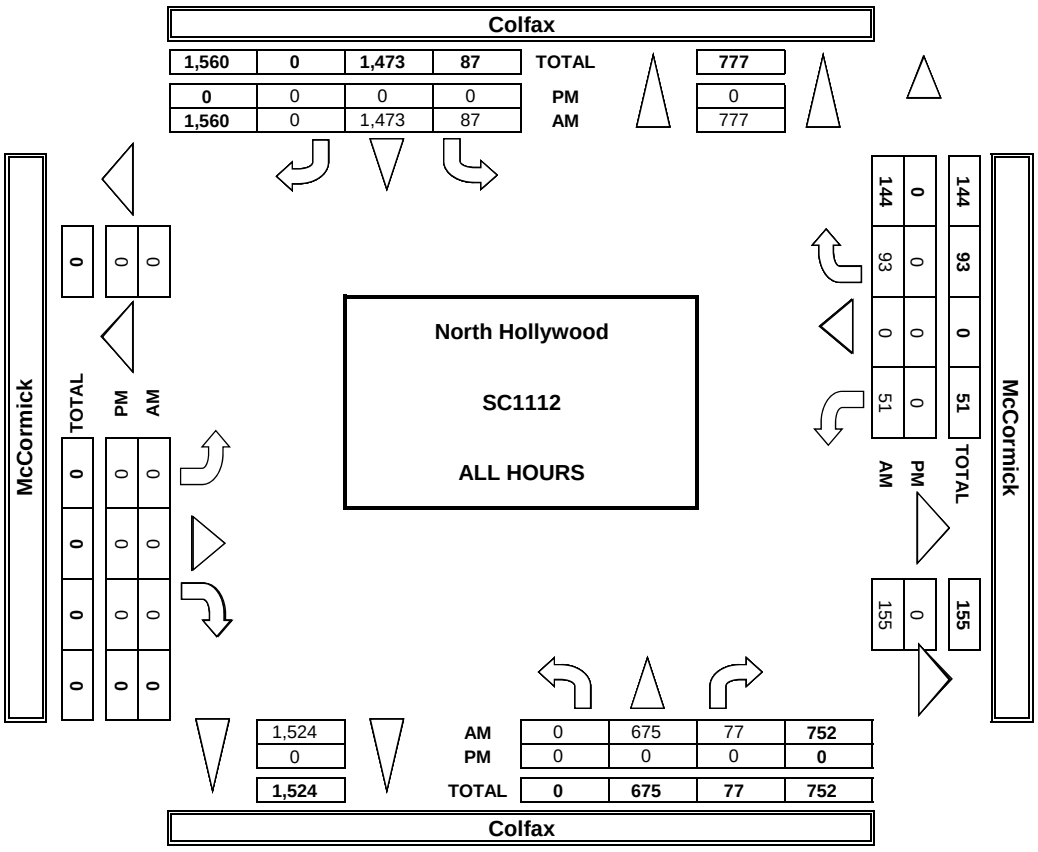
WESTBOUND Approach

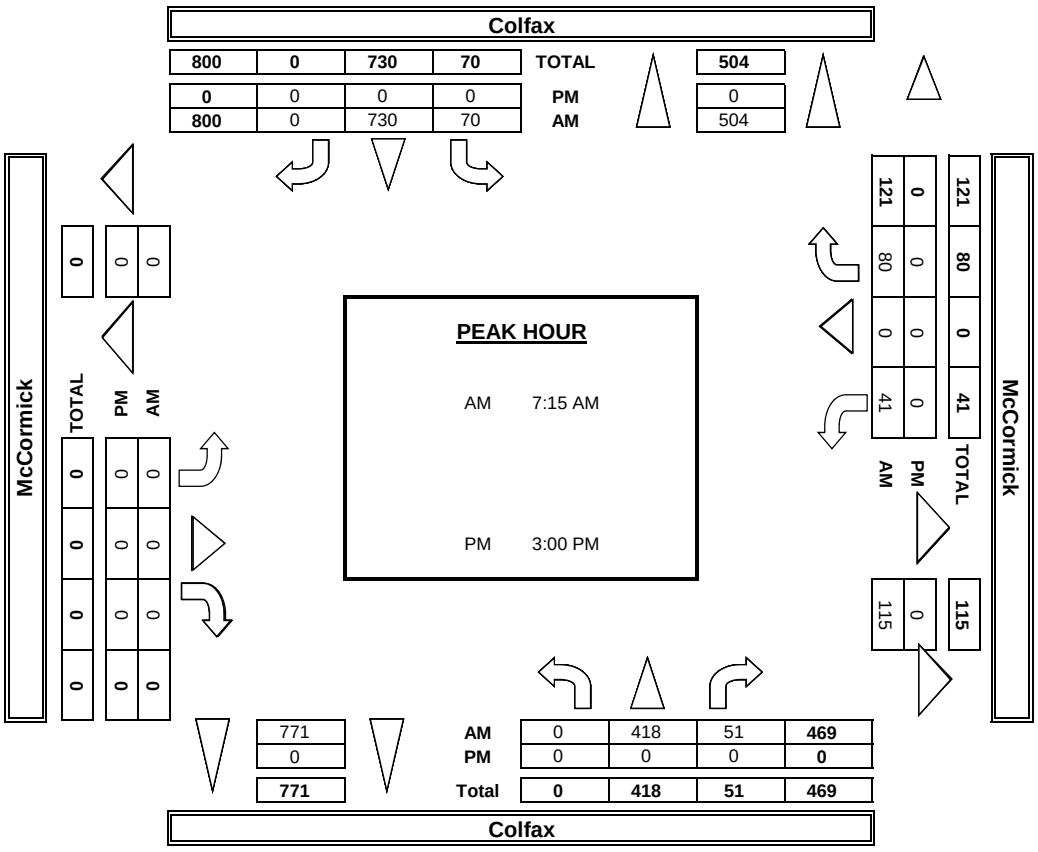
Hours	Lt	Th	Rt	Total
7-8	41	0	74	115
8-9	10	0	19	29
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	51	0	93	144

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
115	0	0	23	107
29	0	0	28	17
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
144	0	0	51	124

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	3
WEDNESDAY	EAST & WEST:	McCormick	CONTROL:	SIGNAL

NOTES:

PCE Adjusted	Class	1	2	3	4	5	6		
	Factor	1	1.5	2	3	2	2		

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (McCormick)			WESTBOUND (McCormick)				U-TURNS				
	LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	38	0	8	182	0	0	0	0	4	0	4	236					0
	7:15 AM	0	72	13	13	205	0	0	0	0	5	0	14	322					0
	7:30 AM	0	110	11	13	186	0	0	0	0	13	0	21	354					0
	7:45 AM	0	127	19	23	181	0	0	0	0	19	0	35	403					0
	8:00 AM	0	114	9	21	188	0	0	0	0	4	0	10	346					0
	8:15 AM	0	86	9	5	201	0	0	0	0	4	0	4	309					0
	8:30 AM	0	54	8	3	188	0	0	0	0	2	0	3	258					0
	8:45 AM	0	86	9	1	211	0	0	0	0	1	0	2	310					0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	VOLUMES	0	686	78	87	1,541	0	0	0	0	52	0	93	2,536	0	0	0	0	0
	APPROACH %	0%	90%	10%	5%	95%	0%	0%	0%	0%	36%	0%	64%						
	APP/DEPART	763	/	779	1,628	/	1,593	0	/	165	145	/	0	0					
	BEGIN PEAK HR		7:15 AM																
	VOLUMES	0	423	52	70	760	0	0	0	0	41	0	80	1,425					
	APPROACH %	0%	89%	11%	8%	92%	0%	0%	0%	0%	34%	0%	66%						
	PEAK HR FACTOR		0.814			0.951			0.000			0.560		0.884					
	APP/DEPART	474	/	503	830	/	801	0	/	122	121	/	0	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		5:45 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					

Colfax

NORTH SIDE

McCormick WEST SIDE EAST SIDE **McCormick**

SOUTH SIDE

Colfax

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	3
WEDNESDAY	EAST & WEST:	McCormick	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND McCormick			WESTBOUND McCormick				U-TURNS				
LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
AM																		
7:00 AM	0	38	0	8	166	0	0	0	0	4	0	4	220	0	2	0	0	2
7:15 AM	0	69	11	13	188	0	0	0	0	5	0	14	300	0	3	0	0	3
7:30 AM	0	104	11	13	162	0	0	0	0	13	0	21	324	0	0	0	0	0
7:45 AM	0	125	19	23	173	0	0	0	0	19	0	35	394	0	1	0	0	1
8:00 AM	0	111	9	21	162	0	0	0	0	4	0	10	317	0	2	0	0	2
8:15 AM	0	83	9	5	162	0	0	0	0	2	0	4	265	0	1	0	0	1
8:30 AM	0	52	8	3	166	0	0	0	0	2	0	3	234	0	0	0	0	0
8:45 AM	0	73	9	1	185	0	0	0	0	1	0	2	271	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	655	76	87	1,364	0	0	0	0	50	0	93	2,325	0	9	0	0	9
APPROACH %	0%	90%	10%	6%	94%	0%	0%	0%	0%	35%	0%	65%						
APP/DEPART	731	/	757	1,451	/	1,414	0	/	154	143	/	0	0					
BEGIN PEAK HR		7:15 AM																
VOLUMES	0	409	50	64	685	0	0	0	0	41	0	80	1,335					
APPROACH %	0%	89%	11%	8%	91%	0%	0%	0%	0%	34%	0%	66%						
PEAK HR FACTOR		0.797			0.939			0.000			0.560		0.847					
APP/DEPART	459	/	495	755	/	726	0	/	114	121	/	0	0					
PM																		
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					

Colfax

NORTH SIDE

McCormick WEST SIDE EAST SIDE **McCormick**

SOUTH SIDE

Colfax

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

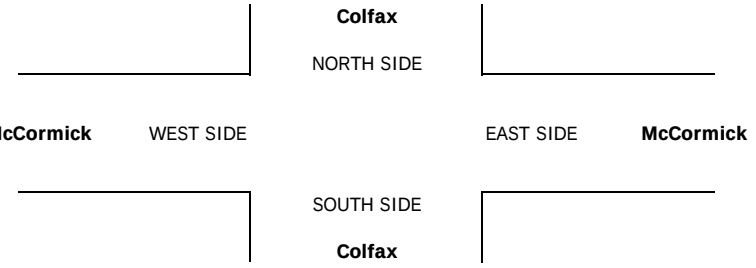
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	3
WEDNESDAY	EAST & WEST:	McCormick	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND McCormick			WESTBOUND McCormick				U-TURNS				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB	TTL
LANES:	X	2	0	1	1	X	X	X	X	0.5	X	0.5						
AM																		
7:00 AM	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0
7:15 AM	0	2	1	0	6	0	0	0	0	0	0	0	9	0	0	0	0	0
7:30 AM	0	4	0	0	8	0	0	0	0	0	0	0	12	0	0	0	0	0
7:45 AM	0	1	0	0	5	0	0	0	0	0	0	0	6	0	0	0	0	0
8:00 AM	0	2	0	0	12	0	0	0	0	0	0	0	14	0	0	0	0	0
8:15 AM	0	2	0	0	14	0	0	0	0	1	0	0	17	0	0	0	0	0
8:30 AM	0	1	0	0	12	0	0	0	0	0	0	0	13	0	0	0	0	0
8:45 AM	0	7	0	0	16	0	0	0	0	0	0	0	23	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	19	1	0	82	0	0	0	0	1	0	0	103	0	0	0	0	0
APPROACH %	0%	95%	5%	0%	100%	0%	0%	0%	0%	100%	0%	0%						
APP/DEPART	20	/	19	82	/	83	0	/	1	1	/	0	0					
BEGIN PEAK HR		8:00 AM																
VOLUMES	0	12	0	0	54	0	0	0	0	1	0	0	67					
APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%						
PEAK HR FACTOR		0.429			0.844			0.000			0.250		0.728					
APP/DEPART	12	/	12	54	/	55	0	/	0	1	/	0	0					
PM																		
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

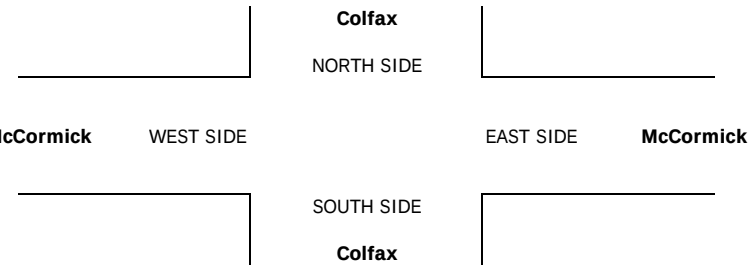
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	3
WEDNESDAY	EAST & WEST:	McCormick	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND McCormick			WESTBOUND McCormick				U-TURNS				
	LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		7:00 AM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

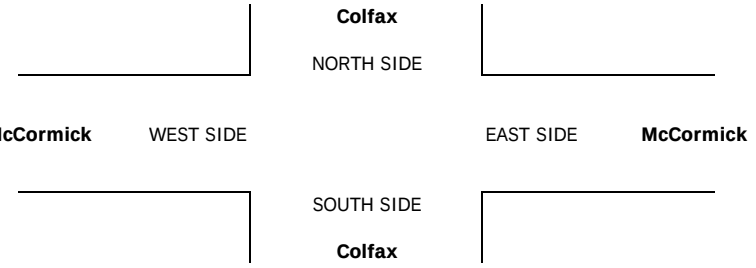
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	3
WEDNESDAY	EAST & WEST:	McCormick	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (McCormick)			WESTBOUND (McCormick)				U-TURNS				
LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
AM																		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		7:00 AM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM																		
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

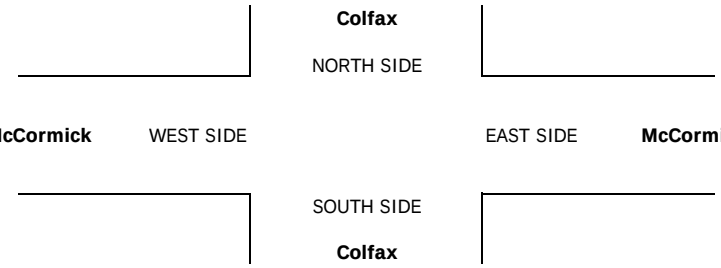
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	3
WEDNESDAY	EAST & WEST:	McCormick	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND McCormick			WESTBOUND McCormick				U-TURNS				
LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
AM 7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		7:00 AM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM 03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	3
WEDNESDAY	EAST & WEST:	McCormick	CONTROL:	SIGNAL

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND McCormick			WESTBOUND McCormick				U-TURNS				
	LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
	7:15 AM	0	0	0	0	4	0	0	0	0	0	0	0	4	0	0	0	0	0
	7:30 AM	0	0	0	0	6	0	0	0	0	0	0	0	6	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	4	0	0	0	0	0	0	0	4	0	0	0	0	0
	8:15 AM	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0
	8:30 AM	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0
	8:45 AM	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	1	0	0	27	0	0	0	0	0	0	0	28	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	1	/	1	27	/	27	0	/	0	0	/	0	0					
	BEGIN PEAK HR		7:30 AM																
	VOLUMES	0	0	0	0	19	0	0	0	0	0	0	0	19					
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.528			0.000			0.000		0.528					
	APP/DEPART	0	/	0	19	/	19	0	/	0	0	/	0	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					

Colfax

NORTH SIDE

McCormick WEST SIDE EAST SIDE **McCormick**

SOUTH SIDE

Colfax

INTERSECTION TURNING MOVEMENT COUNTS

T816

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Oct 26, 16

LOCATION: North Hollywood
NORTH & SOUTH: Colfax
EAST & WEST: McCormick

PROJECT #: SC1112
LOCATION #: 3
CONTROL: SIGNAL

NOTES:
SB queue PM 2

AM / PM / MD / OTHER / OTHER

N ▲ S ▼ ◄ W E ►

Add U-Turns to Left Turns

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (McCormick)			WESTBOUND (McCormick)			
	LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	0	86	6	2	89	0	0	0	0	2	0	2	187
	2:45 PM	0	119	3	3	107	0	0	0	0	2	0	1	235
	3:00 PM	0	115	11	12	109	0	0	0	0	1	0	2	250
	3:15 PM	1	113	26	16	123	0	0	0	0	3	0	20	302
	VOLUMES	1	433	46	33	428	0	0	0	0	8	0	25	974
	APPROACH %	0%	90%	10%	7%	93%	0%	0%	0%	0%	24%	0%	76%	
	APP/DEPART	480	/	459	461	/	437	0	/	78	33	/	0	0
	BEGIN PEAK HR		2:30 PM											
	VOLUMES	1	433	46	33	428	0	0	0	0	8	0	25	974
	APPROACH %	0%	90%	10%	7%	93%	0%	0%	0%	0%	24%	0%	76%	
	PEAK HR FACTOR		0.857			0.829			0.000			0.359		0.806
	APP/DEPART	480	/	459	461	/	437	0	/	78	33	/	0	0
PM	03:30 PM	0	103	20	24	105	0	0	0	0	23	0	29	304
	3:45 PM	0	137	8	4	115	0	0	0	0	9	0	14	287
	4:00 PM	0	153	4	5	128	0	0	0	0	1	0	5	296
	4:15 PM	1	146	4	7	87	0	0	0	0	2	0	11	258
	4:30 PM	0	165	8	6	104	0	0	0	0	3	0	4	290
	4:45 PM	0	134	5	10	107	0	0	0	0	1	0	13	270
	5:00 PM	0	149	4	8	92	0	0	0	0	4	0	6	263
	5:15 PM	0	162	11	11	133	0	0	0	0	4	0	5	326
	5:30 PM	0	169	13	11	142	0	0	0	0	12	0	16	363
	5:45 PM	0	141	5	9	139	0	0	0	0	4	0	4	302
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	1	1,459	82	95	1,152	0	0	0	0	63	0	107	2,959
	APPROACH %	0%	95%	5%	8%	92%	0%	0%	0%	0%	37%	0%	63%	
	APP/DEPART	1,542	/	1,582	1,247	/	1,216	0	/	161	170	/	0	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	0	621	33	39	506	0	0	0	0	24	0	31	1,254
	APPROACH %	0%	95%	5%	7%	93%	0%	0%	0%	0%	44%	0%	56%	
	PEAK HR FACTOR		0.898			0.891			0.000			0.491		0.864
	APP/DEPART	654	/	658	545	/	530	0	/	66	55	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
X	X	X	X	
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	1
1	0	0	0	1
1	1	0	0	2
0	0	0	0	0
0	0	0	0	0
0	2	0	0	2
1	2	0	0	3
0	2	0	0	2
0	4	0	0	4
0	2	0	0	2
0	1	0	0	1
0	2	0	0	2
0	1	0	0	1
0	0	0	0	0
0	0	0	0	0
1	16	0	0	17

Colfax

NORTH SIDE

McCormick WEST SIDE EAST SIDE **McCormick**

SOUTH SIDE

Colfax

		ALL PED AND BIKE				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
PM	12:30 PM	0	0	0	0	0
	12:45 PM	0	0	0	0	0
	1:00 PM	0	0	0	0	0
	1:15 PM	0	0	0	0	0
	1:30 PM	0	0	0	0	0
	1:45 PM	0	0	0	0	0
	2:00 PM	0	0	0	0	0
	2:15 PM	0	0	0	0	0
	2:30 PM	0	7	4	2	13
	2:45 PM	0	20	6	1	27
	3:00 PM	0	31	13	0	44
	3:15 PM	0	369	179	0	548
	TOTAL	0	427	202	3	632
PM	3:30 PM	0	101	34	1	136
	3:45 PM	0	55	17	1	73
	4:00 PM	0	31	12	0	43
	4:15 PM	0	28	14	0	42
	4:30 PM	0	11	7	0	18
	4:45 PM	0	28	19	1	48
	5:00 PM	0	30	9	2	41
	5:15 PM	0	22	9	0	31
	5:30 PM	0	27	19	0	46
	5:45 PM	0	15	15	1	31
	6:00 PM	0	0	0	0	0
	6:15 PM	0	0	0	0	0
	TOTAL	0	348	155	6	509

	PEDESTRIAN CROSSINGS				
	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL
12:30 PM	0	0	0	0	0
12:45 PM	0	0	0	0	0
1:00 PM	0	0	0	0	0
1:15 PM	0	0	0	0	0
1:30 PM	0	0	0	0	0
1:45 PM	0	0	0	0	0
2:00 PM	0	0	0	0	0
2:15 PM	0	0	0	0	0
2:30 PM	0	5	3	0	8
2:45 PM	0	13	6	0	19
3:00 PM	0	16	10	0	26
3:15 PM	0	2	16	0	18
TOTAL	0	36	35	0	71
3:30 PM	0	2	0	0	2
3:45 PM	0	2	3	0	5
4:00 PM	0	1	6	0	7
4:15 PM	0	6	5	0	11
4:30 PM	0	0	3	0	3
4:45 PM	0	3	8	0	11
5:00 PM	0	1	3	0	4
5:15 PM	0	4	3	0	7
5:30 PM	0	1	5	0	6
5:45 PM	0	2	5	0	7
6:00 PM	0	0	0	0	0
6:15 PM	0	0	0	0	0
TOTAL	0	22	41	0	63

	BICYCLE CROSSINGS				
	NS	SS	ES	WS	TOTAL
12:30 PM	0	0	0	0	0
12:45 PM	0	0	0	0	0
1:00 PM	0	0	0	0	0
1:15 PM	0	0	0	0	0
1:30 PM	0	0	0	0	0
1:45 PM	0	0	0	0	0
2:00 PM	0	0	0	0	0
2:15 PM	0	0	0	0	0
2:30 PM	0	0	1	2	3
2:45 PM	0	0	0	1	1
3:00 PM	0	0	1	0	1
3:15 PM	0	0	4	0	4
TOTAL	0	0	6	3	9
3:30 PM	0	1	3	1	5
3:45 PM	0	0	1	1	2
4:00 PM	0	0	0	0	0
4:15 PM	0	0	1	0	1
4:30 PM	0	0	1	0	1
4:45 PM	0	0	1	1	2
5:00 PM	0	0	0	2	2
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	3	1	4
6:00 PM	0	0	0	0	0
6:15 PM	0	0	0	0	0
TOTAL	0	1	10	6	17

	SCHOOL AGE PED				
	NS	SS	ES	WS	TOTAL
12:30 PM	0	0	0	0	0
12:45 PM	0	0	0	0	0
1:00 PM	0	0	0	0	0
1:15 PM	0	0	0	0	0
1:30 PM	0	0	0	0	0
1:45 PM	0	0	0	0	0
2:00 PM	0	0	0	0	0
2:15 PM	0	0	0	0	0
2:30 PM	0	2	0	0	2
2:45 PM	0	7	0	0	7
3:00 PM	0	15	2	0	17
3:15 PM	0	367	159	0	526
TOTAL	0	391	161	0	552
3:30 PM	0	98	31	0	129
3:45 PM	0	53	13	0	66
4:00 PM	0	30	6	0	36
4:15 PM	0	22	8	0	30
4:30 PM	0	11	3	0	14
4:45 PM	0	25	10	0	35
5:00 PM	0	29	6	0	35
5:15 PM	0	18	6	0	24
5:30 PM	0	26	14	0	40
5:45 PM	0	13	7	0	20
6:00 PM	0	0	0	0	0
6:15 PM	0	0	0	0	0
TOTAL	0	325	104	0	429

City Of Los Angeles
Department Of Transportation
MANUAL TRAFFIC COUNT SUMMARY

STREET:
North / Sounth: Colfax

East/West: McCormick

Day: WEDNESDAY Date: October 26, 2016 Weather: Sunny

Hours:

School Day: Yes District: I/S CODE:

	N/B	S/B	E/B	W/B
DUAL-WHEELED	75	48	0	1
BIKES	16	9	1	0
BUSES	5	20	0	1

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
PM 1 PK 15 MIN	140	3:15:00 PM	139	3:15:00 PM	0	3:15:00 PM	23	3:15:00 PM
PM 2 PK 15 MIN	182	5:30:00 PM	139	3:15:00 PM	0	3:15:00 PM	52	3:15:00 PM
PM 1 PK HOUR	480	2:30:00 PM	461	2:30:00 PM	0	3:15:00 PM	33	2:30:00 PM
PM 2 PK HOUR	654	5:00:00 PM	545	5:00:00 PM	0	6:15:00 PM	94	3:30:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	0	0	0
14:30-15:30	1	433	46	480
15:30-16:30	1	539	36	576
16:30-17:30	1	610	28	639
17:30-18:30	0	310	18	328
TOTAL	3	1892	128	2023

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	0	0	0
14:30-15:30	33	428	0	461
15:30-16:30	40	435	0	475
16:30-17:30	35	436	0	471
17:30-18:30	20	281	0	301
TOTAL	128	1580	0	1708

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
0	0	0	0	0
0	0	0	0	0
941	36	391	0	0
1051	11	203	0	0
1110	8	83	0	0
629	3	39	0	0
3731	58	716	0	0

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	0	0	0
14:30-15:30	0	0	0	0
15:30-16:30	0	0	0	0
16:30-17:30	0	0	0	0
17:30-18:30	0	0	0	0
TOTAL	0	0	0	0

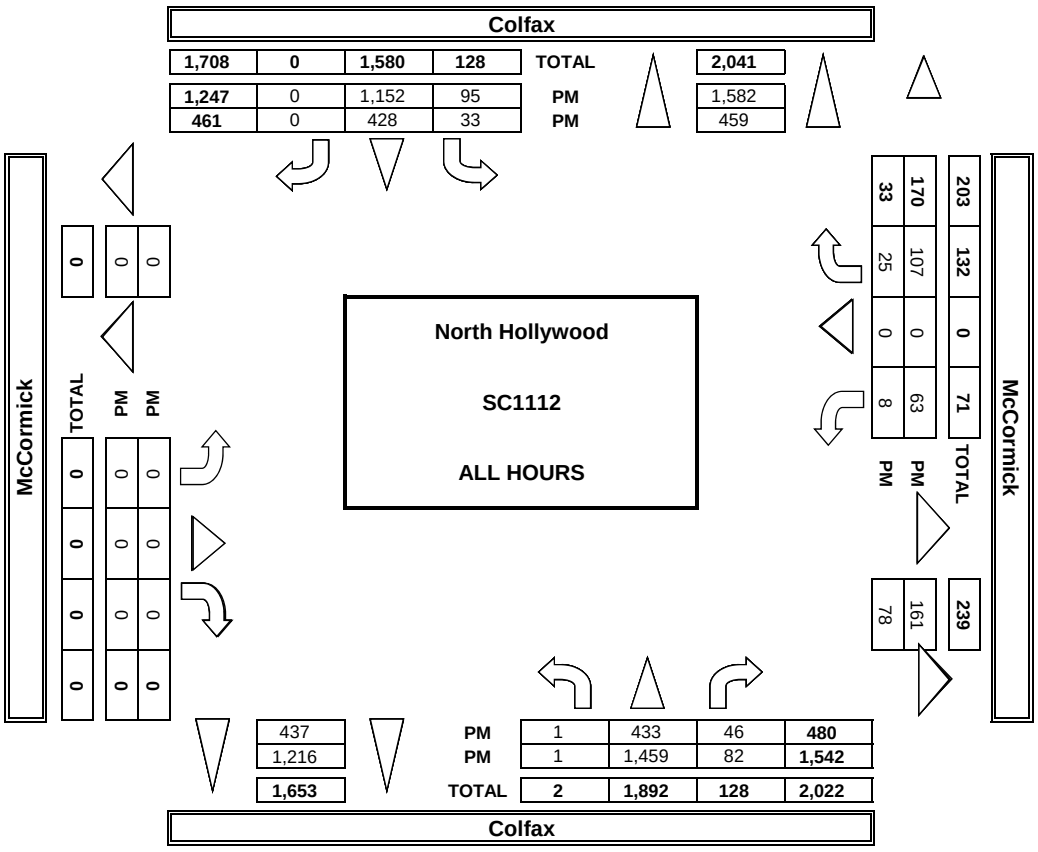
WESTBOUND Approach

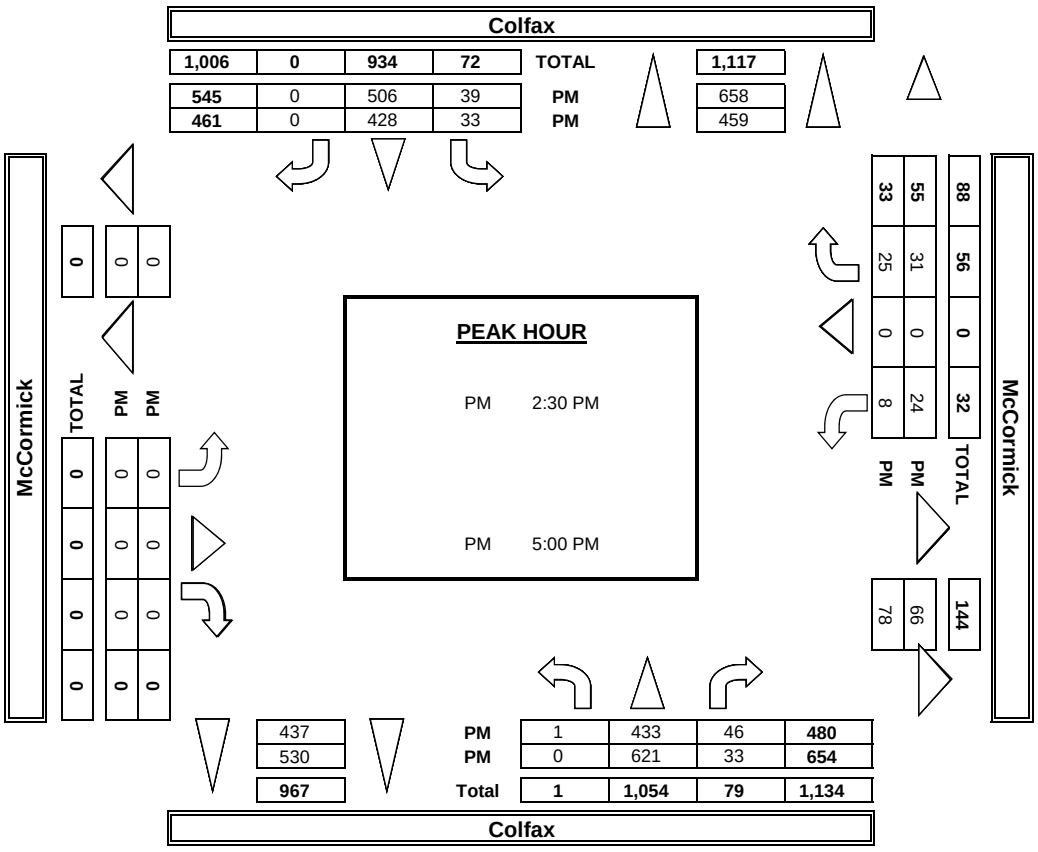
Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	0	0	0
14:30-15:30	8	0	25	33
15:30-16:30	35	0	59	94
16:30-17:30	12	0	28	40
17:30-18:30	16	0	20	36
TOTAL	71	0	132	203

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
0	0	0	0	0
0	0	0	0	0
33	0	0	35	161
94	0	0	14	58
40	0	0	17	25
36	0	0	10	21
203	0	0	76	265

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:					
10/26/16	LOCATION:	North Hollywood	PROJECT #:	SC1112	
WEDNESDAY	NORTH & SOUTH:	Colfax	LOCATION #:	3	
	EAST & WEST:	McCormick	CONTROL:	SIGNAL	

NOTES:

PCE Adjusted								
Class	1	2	3	4	5	6		
Factor	1	1.5	2	3	2	2		

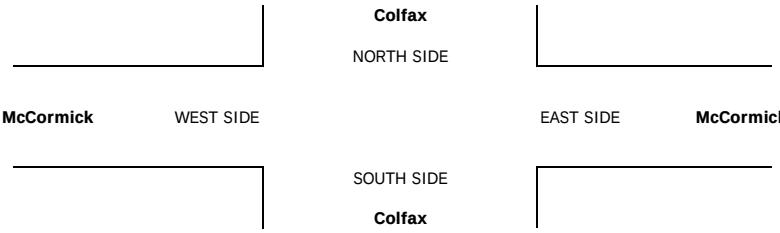
AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (McCormick)			WESTBOUND (McCormick)				U-TURNS				
LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
2:30 PM	0	88	6	2	93	0	0	0	0	2	0	2	193					0
2:45 PM	0	122	3	3	109	0	0	0	0	2	0	1	240					0
3:00 PM	0	118	11	12	112	0	0	0	0	2	0	2	256					0
3:15 PM	1	118	26	16	129	0	0	0	0	3	0	20	313					0
VOLUMES	1	445	46	33	443	0	0	0	0	9	0	25	1,001	0	0	0	0	0
APPROACH %	0%	90%	9%	7%	93%	0%	0%	0%	0%	26%	0%	74%						
APP/DEPART	492	/	470	476	/	452	0	/	79	34	/	1	0					
BEGIN PEAK HR		2:30 PM																
VOLUMES	1	445	46	33	443	0	0	0	0	9	0	25	1,001					
APPROACH %	0%	90%	9%	7%	93%	0%	0%	0%	0%	26%	0%	74%						
PEAK HR FACTOR		0.850			0.820			0.000			0.370		0.801					
APP/DEPART	492	/	470	476	/	452	0	/	79	34	/	1	0					
03:30 PM	0	107	20	25	116	0	0	0	0	23	0	29	319					0
3:45 PM	0	143	8	4	117	0	0	0	0	9	0	14	295					0
4:00 PM	0	155	4	5	132	0	0	0	0	1	0	5	302					0
4:15 PM	1	151	4	7	90	0	0	0	0	2	0	11	266					0
4:30 PM	0	169	8	6	106	0	0	0	0	3	0	4	296					0
4:45 PM	0	138	5	10	110	0	0	0	0	1	0	13	277					0
5:00 PM	0	151	4	8	94	0	0	0	0	5	0	6	267					0
5:15 PM	0	165	11	11	134	0	0	0	0	4	0	5	330					0
5:30 PM	0	170	13	11	143	0	0	0	0	12	0	16	365					0
5:45 PM	0	143	5	9	141	0	0	0	0	4	0	4	306					0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
VOLUMES	1	1,490	82	96	1,181	0	0	0	0	64	0	107	3,020	0	0	0	0	0
APPROACH %	0%	95%	5%	7%	93%	0%	0%	0%	0%	37%	0%	63%						
APP/DEPART	1,573	/	1,597	1,277	/	1,245	0	/	178	171	/	1	0					
BEGIN PEAK HR		5:00 PM																
VOLUMES	0	629	33	39	511	0	0	0	0	25	0	31	1,267					
APPROACH %	0%	95%	5%	7%	93%	0%	0%	0%	0%	44%	0%	56%						
PEAK HR FACTOR		0.904			0.895			0.000			0.496		0.869					
APP/DEPART	662	/	660	550	/	535	0	/	72	56	/	0	0					

PM

PM



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	3
WEDNESDAY	EAST & WEST:	McCormick	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND McCormick			WESTBOUND McCormick				U-TURNS				
LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
PM 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	82	6	2	81	0	0	0	0	2	0	2	175	0	0	0	0	0
2:45 PM	0	114	3	3	103	0	0	0	0	2	0	1	226	0	0	0	0	0
3:00 PM	0	110	11	12	104	0	0	0	0	0	0	2	239	0	1	0	0	1
3:15 PM	1	105	26	16	115	0	0	0	0	3	0	20	286	1	0	0	0	1
VOLUMES	1	411	46	33	403	0	0	0	0	7	0	25	926	1	1	0	0	2
APPROACH %	0%	90%	10%	8%	92%	0%	0%	0%	0%	22%	0%	78%						
APP/DEPART	458	/	437	436	/	411	0	/	78	32	/	0	0					
BEGIN PEAK HR		2:30 PM																
VOLUMES	0	411	46	32	403	0	0	0	0	7	0	25	926					
APPROACH %	0%	90%	10%	7%	92%	0%	0%	0%	0%	22%	0%	78%						
PEAK HR FACTOR		0.867			0.832			0.000			0.348		0.809					
APP/DEPART	458	/	437	436	/	411	0	/	78	32	/	0	0					
PM 03:30 PM	0	96	20	23	93	0	0	0	0	23	0	29	284	0	0	0	0	0
3:45 PM	0	125	8	4	113	0	0	0	0	9	0	14	273	0	0	0	0	0
4:00 PM	0	151	4	5	121	0	0	0	0	1	0	5	287	0	2	0	0	2
4:15 PM	1	137	4	7	83	0	0	0	0	2	0	11	245	1	2	0	0	3
4:30 PM	0	159	8	6	100	0	0	0	0	3	0	4	280	0	2	0	0	2
4:45 PM	0	127	5	10	102	0	0	0	0	1	0	13	258	0	4	0	0	4
5:00 PM	0	145	4	8	89	0	0	0	0	3	0	6	255	0	2	0	0	2
5:15 PM	0	156	11	11	132	0	0	0	0	4	0	5	319	0	1	0	0	1
5:30 PM	0	167	13	11	141	0	0	0	0	12	0	16	360	0	2	0	0	2
5:45 PM	0	138	5	9	136	0	0	0	0	4	0	4	296	0	1	0	0	1
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	1	1,401	82	94	1,110	0	0	0	0	62	0	107	2,857	1	16	0	0	17
APPROACH %	0%	94%	6%	8%	92%	0%	0%	0%	0%	37%	0%	63%						
APP/DEPART	1,484	/	1,524	1,204	/	1,173	0	/	160	169	/	0	0					
BEGIN PEAK HR		5:00 PM																
VOLUMES	0	606	33	33	498	0	0	0	0	23	0	31	1,230					
APPROACH %	0%	95%	5%	6%	93%	0%	0%	0%	0%	43%	0%	57%						
PEAK HR FACTOR		0.888			0.883			0.000			0.482		0.854					
APP/DEPART	639	/	643	537	/	521	0	/	66	54	/	0	0					

Colfax

NORTH SIDE

McCormick WEST SIDE EAST SIDE **McCormick**

SOUTH SIDE

Colfax

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

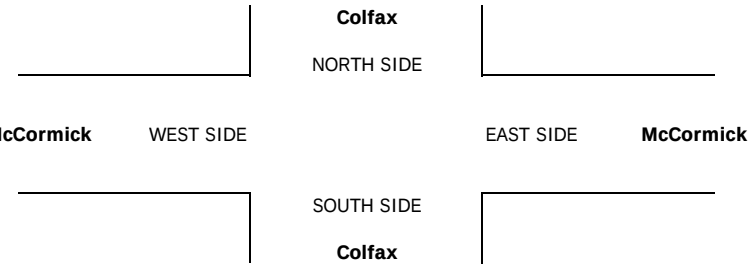
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	3
WEDNESDAY	EAST & WEST:	McCormick	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND McCormick			WESTBOUND McCormick				U-TURNS				
	LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	0	4	0	0	8	0	0	0	0	0	0	0	12	0	0	0	0	0
	2:45 PM	0	5	0	0	4	0	0	0	0	0	0	0	9	0	0	0	0	0
	3:00 PM	0	5	0	0	5	0	0	0	0	0	0	0	10	0	0	0	0	0
	3:15 PM	0	7	0	0	4	0	0	0	0	0	0	0	11	0	0	0	0	0
	VOLUMES	0	21	0	0	21	0	0	0	0	0	0	0	42	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	21	/	21	21	/	21	0	/	0	0	/	0	0					
	BEGIN PEAK HR		2:30 PM																
	VOLUMES	0	21	0	0	21	0	0	0	0	0	0	0	42					
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.750			0.656			0.000			0.000		0.875					
	APP/DEPART	21	/	21	21	/	21	0	/	0	0	/	0	0					
PM	03:30 PM	0	7	0	1	3	0	0	0	0	0	0	0	11	0	0	0	0	0
	3:45 PM	0	12	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0
	4:00 PM	0	1	0	0	6	0	0	0	0	0	0	0	7	0	0	0	0	0
	4:15 PM	0	9	0	0	2	0	0	0	0	0	0	0	11	0	0	0	0	0
	4:30 PM	0	4	0	0	4	0	0	0	0	0	0	0	8	0	0	0	0	0
	4:45 PM	0	6	0	0	4	0	0	0	0	0	0	0	10	0	0	0	0	0
	5:00 PM	0	4	0	0	3	0	0	0	0	1	0	0	8	0	0	0	0	0
	5:15 PM	0	6	0	0	1	0	0	0	0	0	0	0	7	0	0	0	0	0
	5:30 PM	0	2	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0
	5:45 PM	0	3	0	0	2	0	0	0	0	0	0	0	5	0	0	0	0	0
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	54	0	1	26	0	0	0	0	1	0	0	82	0	0	0	0	0
	APPROACH %	0%	100%	0%	4%	96%	0%	0%	0%	0%	100%	0%	0%						
	APP/DEPART	54	/	54	27	/	27	0	/	1	1	/	0	0					
	BEGIN PEAK HR		3:30 PM																
	VOLUMES	0	29	0	1	11	0	0	0	0	0	0	0	41					
	APPROACH %	0%	100%	0%	8%	92%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.604			0.500			0.000			0.000		0.854					
	APP/DEPART	29	/	29	12	/	11	0	/	1	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	3
WEDNESDAY	EAST & WEST:	McCormick	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND McCormick			WESTBOUND McCormick				U-TURNS				
	LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		12:30 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM	03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:30 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					

Colfax

NORTH SIDE

McCormick WEST SIDE EAST SIDE **McCormick**

SOUTH SIDE

Colfax

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

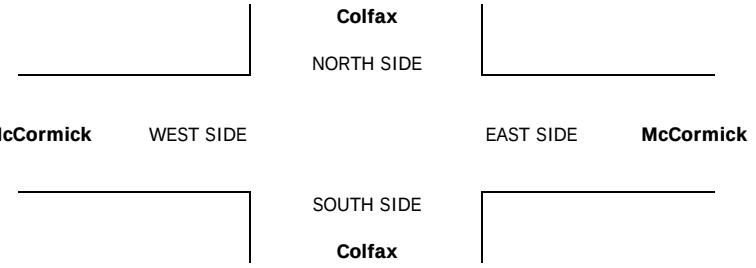
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	3
WEDNESDAY	EAST & WEST:	McCormick	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (McCormick)			WESTBOUND (McCormick)				U-TURNS				
LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
PM 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		12:30 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM 03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:30 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

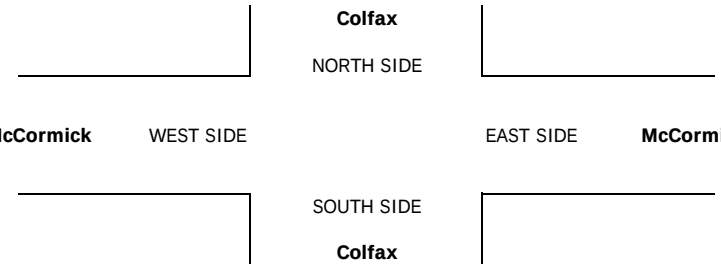
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	3
WEDNESDAY	EAST & WEST:	McCormick	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND McCormick			WESTBOUND McCormick				U-TURNS				
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	NB	SB	EB	WB	TTL
LANES:	X	2	0	1	1	X	X	X	X	0.5	X	0.5						
PM 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		12:30 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM 03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:30 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

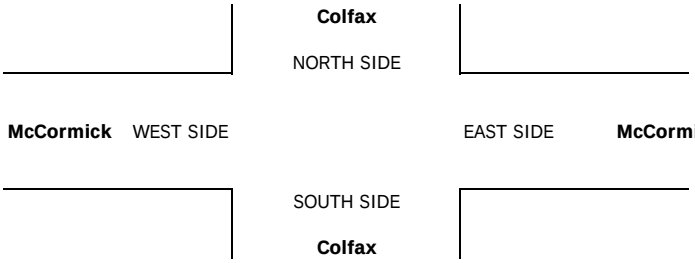
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	3
WEDNESDAY	EAST & WEST:	McCormick	CONTROL:	SIGNAL

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND McCormick			WESTBOUND McCormick				U-TURNS				
	LANES:	NL X	NT 2	NR 0	SL 1	ST 1	SR X	EL X	ET X	ER X	WL 0.5	WT X	WR 0.5	TOTAL	NB	SB	EB	WB	TTL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	3:15 PM	0	1	0	0	4	0	0	0	0	0	0	0	5	0	0	0	0	0
	VOLUMES	0	1	0	0	4	0	0	0	0	1	0	0	6	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%						
	APP/DEPART	1	/	1	4	/	5	0	/	0	1	/	0	0					
	BEGIN PEAK HR		2:30 PM																
	VOLUMES	0	1	0	0	4	0	0	0	0	1	0	0	6					
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	100%	0%	0%						
	PEAK HR FACTOR		0.250			0.250			0.000			0.250		0.300					
	APP/DEPART	1	/	1	4	/	5	0	/	0	1	/	0	0					
PM	03:30 PM	0	0	0	0	9	0	0	0	0	0	0	0	9	0	0	0	0	0
	3:45 PM	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0
	4:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0
	4:15 PM	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0
	4:30 PM	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
	4:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	4	0	0	16	0	0	0	0	0	0	0	20	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	4	/	4	16	/	16	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:30 PM																
	VOLUMES	0	1	0	0	14	0	0	0	0	0	0	0	15					
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.250			0.389			0.000			0.000		0.417					
	APP/DEPART	1	/	1	14	/	14	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

T816

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Oct 26, 16

LOCATION: North Hollywood
NORTH & SOUTH: Colfax
EAST & WEST: Chandler

PROJECT #: SC1112
LOCATION #: 4
CONTROL: SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER

▲ N
◄ W E ►
S ▼

Add U-Turns to Left Turns

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Chandler)			WESTBOUND (Chandler)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB X	SB X	EB X	WB X	TTL
AM	7:00 AM	7	38	4	17	156	6	8	85	44	16	44	3	428	0	0	0	1	1
	7:15 AM	16	86	15	30	145	2	24	106	77	36	40	4	581	0	0	8	8	16
	7:30 AM	26	105	26	21	137	3	28	146	59	49	74	15	689	0	0	12	4	16
	7:45 AM	29	140	15	38	138	4	36	183	54	44	83	21	785	0	0	11	3	14
	8:00 AM	25	109	9	19	139	7	31	183	44	27	59	10	662	0	0	7	3	10
	8:15 AM	25	61	10	39	128	4	14	187	56	11	44	10	589	0	0	4	6	10
	8:30 AM	6	43	12	33	148	8	12	236	49	6	47	6	606	0	0	3	2	5
	8:45 AM	14	56	10	46	151	8	16	223	44	8	45	5	626	0	0	2	3	5
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	148	638	101	243	1,142	42	169	1,349	427	197	436	74	4,966	0	0	47	30	77
	APPROACH %	17%	72%	11%	17%	80%	3%	9%	69%	22%	28%	62%	10%						
	APP/DEPART	887	/	834	1,427	/	1,736	1,945	/	1,723	707	/	673	0					
	BEGIN PEAK HR		7:30 AM																
	VOLUMES	105	415	60	117	542	18	109	699	213	131	260	56	2,725					
	APPROACH %	18%	72%	10%	17%	80%	3%	11%	68%	21%	29%	58%	13%						
	PEAK HR FACTOR		0.788			0.940			0.935			0.755		0.868					
	APP/DEPART	580	/	546	677	/	870	1,021	/	892	447	/	417	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS					SCHOOL AGE PED				
		N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL	NS	SS	ES	WS	TOTAL
AM	7:00 AM	1	8	5	10	24	0	2	2	3	7	1	6	0	0	7	0	0	3	7	10
	7:15 AM	2	8	4	18	32	0	3	1	6	10	2	2	0	3	7	0	3	3	9	15
	7:30 AM	15	22	18	53	108	12	12	14	28	66	2	4	1	5	12	1	6	3	20	30
	7:45 AM	20	44	30	78	172	14	14	17	22	67	0	5	2	0	7	6	25	11	56	98
	8:00 AM	16	11	6	17	50	9	8	4	11	32	4	2	1	2	9	3	1	1	4	9
	8:15 AM	3	6	3	9	21	3	2	2	4	11	0	4	1	0	5	0	0	0	5	5
	8:30 AM	4	8	4	4	20	0	0	2	0	2	3	6	1	3	13	1	2	1	1	5
	8:45 AM	5	9	0	10	24	3	6	0	5	14	2	0	0	1	3	0	3	0	4	7
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	66	116	70	199	451	41	47	42	79	209	14	29	6	14	63	11	40	22	106	179
PM	3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

City Of Los Angeles
Department Of Transportation
MANUAL TRAFFIC COUNT SUMMARY

STREET:
North / Sounth: Colfax

East/West: Chandler

Day: WEDNESDAY Date: October 26, 2016 Weather: Sunny

Hours:

School Da: Yes District: I/S CODE:

	N/B	S/B	E/B	W/B
DUAL-WHEELED	20	69	60	23
BIKES	6	14	29	14
BUSES	0	18	40	37

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
AM PK 15 MIN	184	7:45:00 AM	205	8:45:00 AM	297	8:30:00 AM	148	7:45:00 AM
PM PK 15 MIN	0	5:45:00 PM	205	8:45:00 AM	297	8:30:00 AM	148	7:45:00 AM
AM PK HOUR	601	7:15:00 AM	730	8:00:00 AM	1095	8:00:00 AM	462	7:15:00 AM
PM PK HOUR	0	5:45:00 PM	0	5:45:00 PM	0	5:45:00 PM	0	5:45:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	78	369	60	507
8-9	70	269	41	380
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	148	638	101	887

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	106	576	15	697
8-9	129	704	27	860
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	235	1280	42	1557

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
1204	31	34	26	7
1240	16	6	15	4
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
2444	47	40	41	11

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
7-8	96	520	234	850
8-9	73	1352	193	1618
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	169	1872	427	2468

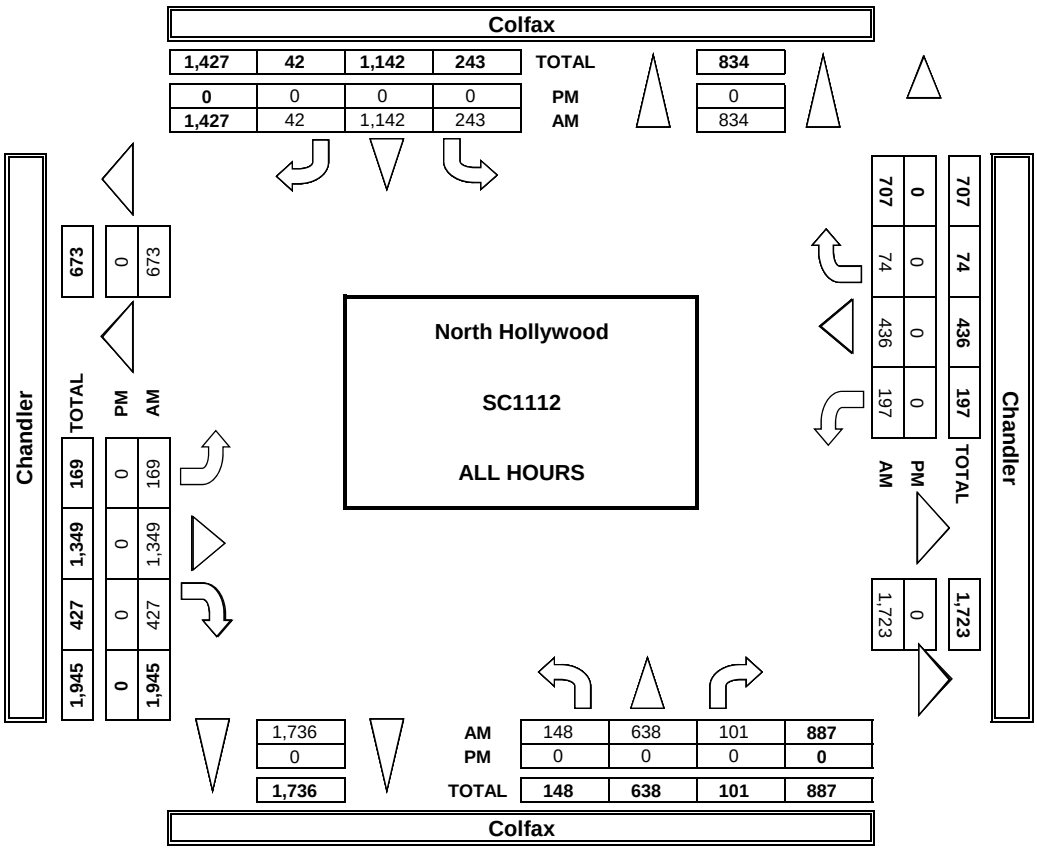
WESTBOUND Approach

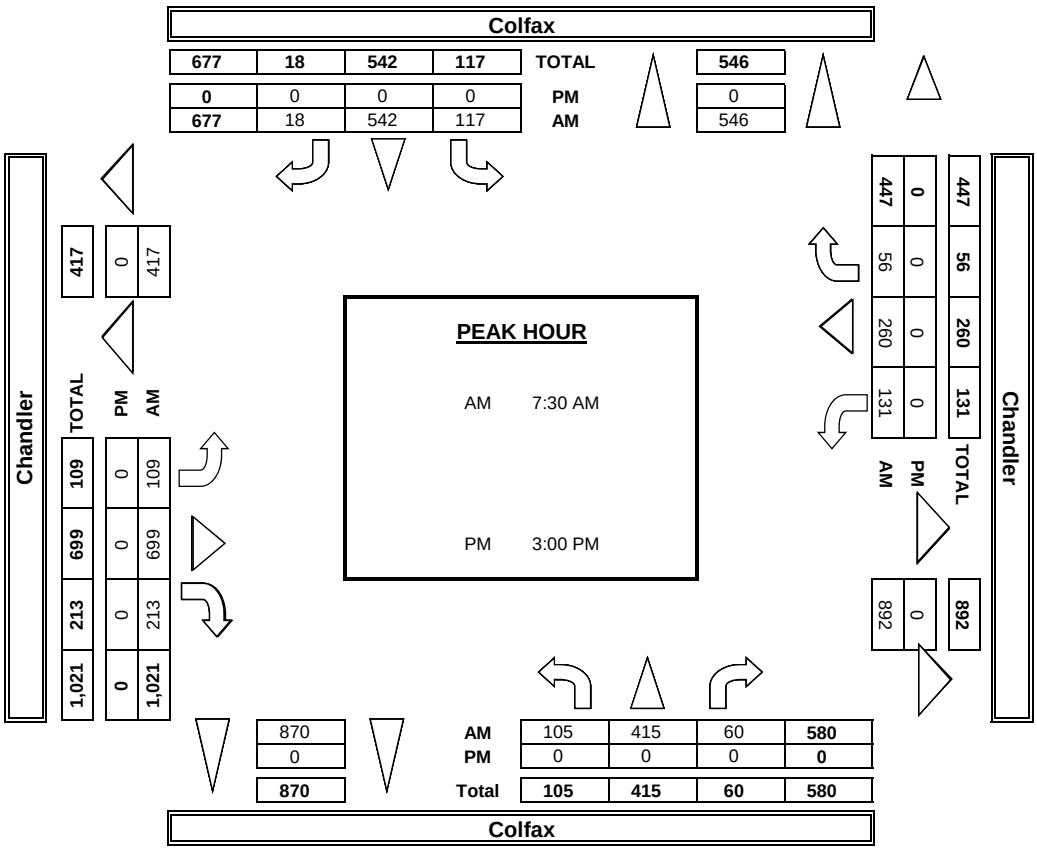
Hours	Lt	Th	Rt	Total
7-8	145	241	43	429
8-9	52	195	31	278
9-10	0	0	0	0
3-4	0	0	0	0
4-5	0	0	0	0
5-6	0	0	0	0
TOTAL	197	436	74	707

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
1279	59	92	34	20
1896	20	14	8	2
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
3175	79	106	42	22

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chandler	CONTROL:	SIGNAL

	NOTES:								
PCE Adjusted	Class	1	2	3	4	5	6		
	Factor	1	1.5	2	3	2	2		

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Chandler)			WESTBOUND (Chandler)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	7	39	4	18	162	6	8	90	46	18	49	4	449					0
	7:15 AM	16	87	15	30	149	2	24	112	80	38	44	4	600					0
	7:30 AM	26	107	26	21	143	3	28	152	60	50	79	16	710					0
	7:45 AM	29	142	15	38	141	4	37	189	54	44	88	22	803					0
	8:00 AM	25	110	9	19	149	7	31	193	47	27	67	10	693					0
	8:15 AM	26	62	10	40	141	4	15	198	59	12	48	11	623					0
	8:30 AM	6	44	12	36	155	8	12	243	52	6	52	6	631					0
	8:45 AM	16	58	10	47	157	9	16	233	46	11	51	5	656					0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	VOLUMES	150	647	101	248	1,195	43	171	1,408	443	206	477	78	5,163	0	0	0	0	0
	APPROACH %	17%	72%	11%	17%	80%	3%	8%	70%	22%	27%	63%	10%						
	APP/DEPART	898	/	895	1,485	/	1,843	2,021	/	1,757	760	/	669	0					
	BEGIN PEAK HR		7:30 AM																
	VOLUMES	106	420	60	118	574	18	111	732	219	133	281	59	2,828					
	APPROACH %	18%	72%	10%	17%	81%	3%	10%	69%	21%	28%	60%	12%						
	PEAK HR FACTOR		0.789			0.959			0.947			0.766		0.881					
	APP/DEPART	586	/	589	710	/	925	1,061	/	910	472	/	405	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		5:45 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chandler	CONTROL:	SIGNAL

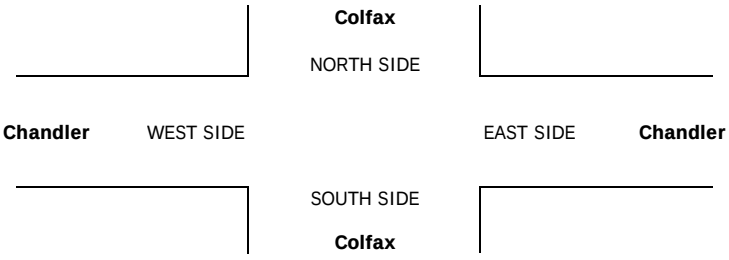
CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

	NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND Chandler			WESTBOUND Chandler				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM 7:00 AM	7	36	4	16	148	6	8	79	42	13	39	2	400	0	0	0	1	1
7:15 AM	16	85	15	30	140	2	24	99	74	33	36	4	558	0	0	8	7	15
7:30 AM	26	101	26	21	128	3	28	139	57	48	68	14	659	0	0	12	3	15
7:45 AM	29	137	15	38	132	4	34	175	54	44	77	20	759	0	0	11	3	14
8:00 AM	25	107	9	19	126	7	31	171	40	27	51	10	623	0	0	7	3	10
8:15 AM	24	60	10	37	111	4	13	173	53	10	40	9	544	0	0	3	6	9
8:30 AM	6	42	12	28	139	8	12	229	43	6	41	6	572	0	0	3	2	5
8:45 AM	12	53	10	45	141	7	16	210	41	6	38	5	584	0	0	2	3	5
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	145	621	101	234	1,065	41	166	1,275	404	187	390	70	4,699	0	0	46	28	74
APPROACH %	17%	72%	12%	17%	79%	3%	9%	69%	22%	29%	60%	11%						
APP/DEPART	867	/	811	1,340	/	1,628	1,845	/	1,638	647	/	622	0					
BEGIN PEAK HR		7:15 AM																
VOLUMES	96	430	65	108	526	16	79	584	225	136	232	48	2,599					
APPROACH %	16%	73%	11%	17%	81%	2%	9%	63%	24%	31%	54%	11%						
PEAK HR FACTOR		0.816			0.934			0.880			0.766		0.856					
APP/DEPART	591	/	557	650	/	887	926	/	773	432	/	382	0					
PM 03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

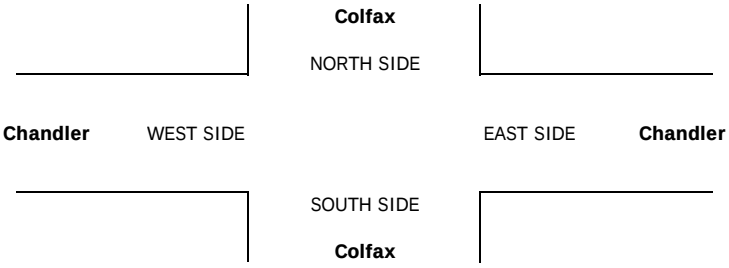
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chandler	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Chandler)			WESTBOUND (Chandler)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	2	0	1	5	0	0	2	1	2	1	0	14	0	0	0	0	0
	7:15 AM	0	1	0	0	3	0	0	3	0	2	0	0	9	0	0	0	0	0
	7:30 AM	0	4	0	0	7	0	0	2	2	1	2	0	18	0	0	0	1	1
	7:45 AM	0	3	0	0	6	0	2	4	0	0	2	0	17	0	0	0	0	0
	8:00 AM	0	2	0	0	8	0	0	7	3	0	1	0	21	0	0	0	0	0
	8:15 AM	1	1	0	2	10	0	1	6	1	0	1	1	24	0	0	1	0	1
	8:30 AM	0	1	0	5	6	0	0	3	6	0	2	0	23	0	0	0	0	0
	8:45 AM	1	3	0	1	9	1	0	7	2	0	2	0	26	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	2	17	0	9	54	1	3	34	15	5	11	1	152	0	0	1	1	2
	APPROACH %	11%	89%	0%	14%	84%	2%	6%	65%	29%	29%	65%	6%						
	APP/DEPART	19	/	20	64	/	73	52	/	44	17	/	15	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	2	7	0	8	33	1	0	23	12	0	6	1	94					
	APPROACH %	22%	78%	0%	19%	79%	2%	0%	64%	33%	0%	86%	14%						
	PEAK HR FACTOR		0.563			0.875			0.900			0.875		0.904					
	APP/DEPART	9	/	8	42	/	45	36	/	31	7	/	10	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

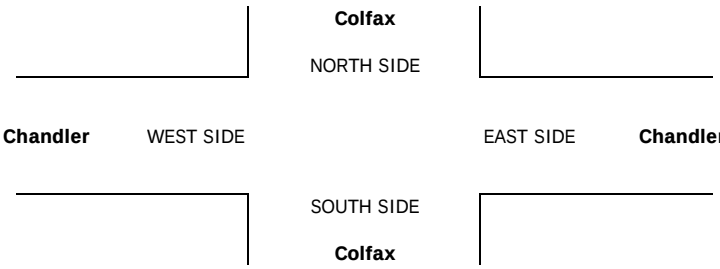
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chandler	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

	NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND Chandler			WESTBOUND Chandler				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM																		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
8:15 AM	0	0	0	0	2	0	0	2	0	0	0	0	4	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	1	0	0	0	0	0	0	1	1	1	0	0	4	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	1	0	0	0	2	0	0	3	1	2	1	2	12	0	0	0	1	1
APPROACH %	100%	0%	0%	0%	100%	0%	0%	75%	25%	40%	20%	40%						
APP/DEPART	1	/	2	2	/	4	4	/	4	5	/	2	0					
BEGIN PEAK HR		8:00 AM																
VOLUMES	1	0	0	0	2	0	0	3	1	1	1	0	9					
APPROACH %	100%	0%	0%	0%	100%	0%	0%	75%	25%	50%	50%	0%						
PEAK HR FACTOR		0.250			0.250			0.500			0.500		0.563					
APP/DEPART	1	/	0	2	/	4	4	/	3	2	/	2	0					
PM																		
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

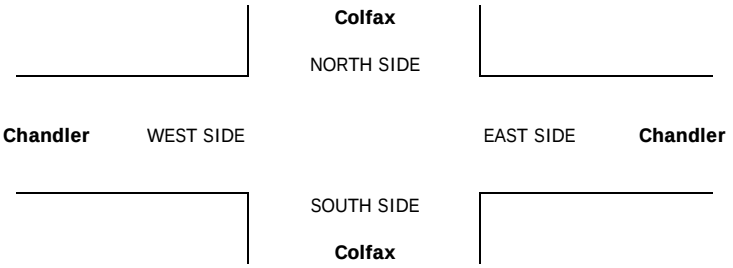
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chandler	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND Chandler			WESTBOUND Chandler				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	1	0	0	1	0	0	0	0	2	0	0	0	0	0
	8:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
	8:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	2	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	3	0	0	2	0	1	0	0	6	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	100%	0%	100%	0%	0%						
	APP/DEPART	0	/	0	3	/	4	2	/	2	1	/	0	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	0	3	0	0	2	0	1	0	0	6					
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	100%	0%	100%	0%	0%						
	PEAK HR FACTOR		0.000			0.750			0.500			0.250		0.750					
	APP/DEPART	0	/	0	3	/	4	2	/	2	1	/	0	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

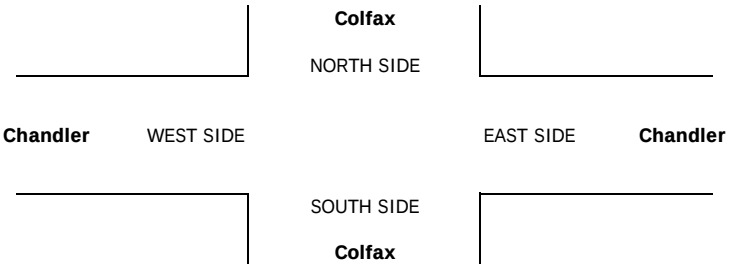
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chandler	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Chandler)			WESTBOUND (Chandler)				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM																		
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	2	/	2	0	/	0	0					
BEGIN PEAK HR		7:00 AM																
VOLUMES	0	0	0	0	0	0	0	2	0	0	0	0	2					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.500			0.000		0.500					
APP/DEPART	0	/	0	0	/	0	2	/	2	0	/	0	0					
PM																		
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:00 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chandler	CONTROL:	SIGNAL

CLASS 6:	NOTES:
BUSES	

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND Chandler			WESTBOUND Chandler				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
AM	7:00 AM	0	0	0	0	3	0	0	4	1	1	4	1	14	0	0	0	0	0
	7:15 AM	0	0	0	0	2	0	0	4	3	0	4	0	13	0	0	0	0	0
	7:30 AM	0	0	0	0	2	0	0	4	0	0	4	0	10	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	3	0	0	4	0	7	0	0	0	0	0
	8:00 AM	0	0	0	0	4	0	0	4	1	0	6	0	15	0	0	0	0	0
	8:15 AM	0	0	0	0	4	0	0	6	2	1	3	0	16	0	0	0	0	0
	8:30 AM	0	0	0	0	2	0	0	3	0	0	4	0	9	0	0	0	0	0
	8:45 AM	0	0	0	0	1	0	0	5	0	0	5	0	11	0	0	0	0	0
	9:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	18	0	0	33	7	2	34	1	95	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	83%	18%	5%	92%	3%						
	APP/DEPART	0	/	1	18	/	27	40	/	33	37	/	34	0					
	BEGIN PEAK HR		8:00 AM																
	VOLUMES	0	0	0	0	11	0	0	18	3	1	18	0	51					
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	86%	14%	5%	95%	0%						
	PEAK HR FACTOR		0.000			0.688			0.656			0.792		0.797					
	APP/DEPART	0	/	0	11	/	15	21	/	18	19	/	18	0					
PM	03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
	BEGIN PEAK HR		3:00 PM																
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					

Colfax

NORTH SIDE

Chandler WEST SIDE EAST SIDE **Chandler**

SOUTH SIDE

Colfax

INTERSECTION TURNING MOVEMENT COUNTS

T816

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
Wed, Oct 26, 16	NORTH & SOUTH:	Colfax	LOCATION #:	4
	EAST & WEST:	Chandler	CONTROL:	SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

Add U-Turns to Left Turns

	NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Chandler)			WESTBOUND (Chandler)			
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	13	72	6	0	69	9	17	59	20	5	46	10	326
2:45 PM	20	91	9	9	80	12	9	79	23	6	46	9	393
3:00 PM	7	83	7	7	109	6	24	48	30	11	41	6	379
3:15 PM	26	108	7	14	103	11	30	88	43	12	50	12	504
VOLUMES	66	354	29	30	361	38	80	274	116	34	183	37	1,602
APPROACH %	15%	79%	6%	7%	84%	9%	17%	58%	25%	13%	72%	15%	
APP/DEPART	449	/	460	429	/	503	470	/	342	254	/	297	0
BEGIN PEAK HR		2:30 PM											
VOLUMES	66	354	29	30	361	38	80	274	116	34	183	37	1,602
APPROACH %	15%	79%	6%	7%	84%	9%	17%	58%	25%	13%	72%	15%	
PEAK HR FACTOR		0.796			0.838			0.730			0.858		0.795
APP/DEPART	449	/	460	429	/	503	470	/	342	254	/	297	0
03:30 PM	21	138	10	20	98	8	37	91	18	10	65	7	523
3:45 PM	24	121	15	11	75	12	33	72	26	12	62	8	471
4:00 PM	17	118	10	6	91	8	25	96	15	17	77	14	494
4:15 PM	21	117	10	5	84	9	24	80	24	6	64	9	453
4:30 PM	31	128	15	9	84	6	19	99	28	13	91	11	534
4:45 PM	22	119	15	15	84	9	21	78	20	6	83	6	478
5:00 PM	29	123	13	6	91	18	29	84	22	16	111	14	556
5:15 PM	33	120	14	13	99	11	19	110	39	13	84	9	564
5:30 PM	33	133	15	8	104	14	31	119	33	12	102	14	618
5:45 PM	31	119	14	15	102	11	25	98	30	11	87	18	561
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	262	1,236	131	108	912	106	263	927	255	116	826	110	5,252
APPROACH %	16%	76%	8%	10%	81%	9%	18%	64%	18%	11%	79%	10%	
APP/DEPART	1,629	/	1,575	1,126	/	1,258	1,445	/	1,191	1,052	/	1,228	0
BEGIN PEAK HR		5:00 PM											
VOLUMES	126	495	56	42	396	54	104	411	124	52	384	55	2,299
APPROACH %	19%	73%	8%	9%	80%	11%	16%	64%	19%	11%	78%	11%	
PEAK HR FACTOR		0.935			0.961			0.873			0.871		0.930
APP/DEPART	677	/	642	492	/	560	639	/	521	491	/	576	0

U-TURNS

NB X	SB X	EB X	WB X	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	3	1	4
1	0	1	0	2
0	0	3	2	5
0	0	4	6	10
1	0	11	9	21
0	0	4	3	7
0	0	5	3	8
0	0	6	3	9
0	0	3	1	4
0	0	3	3	6
0	0	1	0	1
0	0	4	4	8
0	0	1	4	5
0	0	4	2	6
0	0	3	2	5
0	0	0	0	0
0	0	0	0	0
0	0	34	25	59

Colfax

NORTH SIDE

Chandler — WEST SIDE — EAST SIDE — Chandler

SOUTH SIDE

Colfax

	ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS					SCHOOL AGE PED				
	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	N SIDE	S SIDE	E SIDE	W SIDE	TOTAL	NS	SS	ES	WS	TOTAL	NS	SS	ES	WS	TOTAL
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	3	11	3	4	21	1	4	3	3	11	2	5	0	1	8	0	2	0	0	2
2:45 PM	2	1	1	1	5	1	1	1	1	4	1	0	0	0	1	0	0	0	0	0
3:00 PM	5	6	3	4	18	5	4	3	2	14	0	1	0	1	2	0	1	0	1	2
3:15 PM	18	51	31	73	173	8	11	8	11	38	2	3	5	1	11	8	37	18	61	124
TOTAL	28	69	38	82	217	15	20	15	17	67	5	9	5	3	22	8	40	18	62	128
3:30 PM	10	24	11	50	95	7	8	3	7	25	2	1	4	1	8	1	15	4	42	62
3:45 PM	4	6	9	13	32	1	2	1	2	6	2	2	1	0	5	1	2	7	11	21
4:00 PM	1	2	2	5	10	0	1	0	0	1	1	1	0	0	2	0	0	2	5	7
4:15 PM	2	13	10	6	31	1	3	2	0	6	1	1	1	0	3	0	9	7	6	22
4:30 PM	6	7	7	5	25	3	3	6	1	13	2	3	1	1	7	1	1	0	3	5
4:45 PM	11	11	5	15	42	3	8	2	6	19	6	2	3	0	11	2	1	0	9	12
5:00 PM	5	8	9	5	27	2	1	3	2	8	3	0	1	0	4	0	7	5	3	15
5:15 PM	1	4	5	4	14	0	4	4	0	8	1	0	1	1	3	0	0	0	3	3
5:30 PM	5	24	2	15	46	3	14	2	3	22	2	6	0	0	8	0	4	0	12	16
5:45 PM	5	8	8	5	26	1	4	3	3	11	4	3	2	2	11	0	1	3	0	4
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	50	107	68	123	348	21	48	26	24	119	24	19	14	5	62	5	40	28	94	167

City Of Los Angeles

Department Of Transportation

MANUAL TRAFFIC COUNT SUMMARY

STREET:
North / Sounth: Colfax

East/West: Chandler

Day: WEDNESDAY Date: October 26, 2016 Weather: Sunny

Hours:

School Day: Yes District: I/S CODE:

	N/B	S/B	E/B	W/B
DUAL-WHEELED	75	52	39	36
BIKES	19	8	28	29
BUSES	5	12	65	53

	N/B	TIME	S/B	TIME	E/B	TIME	W/B	TIME
PM 1 PK 15 MIN	141	3:15:00 PM	128	3:15:00 PM	161	3:15:00 PM	74	3:15:00 PM
PM 2 PK 15 MIN	181	5:30:00 PM	128	3:15:00 PM	161	3:15:00 PM	82	3:15:00 PM
PM 1 PK HOUR	449	2:30:00 PM	429	2:30:00 PM	470	2:30:00 PM	254	2:30:00 PM
PM 2 PK HOUR	677	5:00:00 PM	492	5:00:00 PM	639	5:00:00 PM	491	5:00:00 PM

NORTHBOUND Approach

Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	0	0	0
14:30-15:30	66	354	29	449
15:30-16:30	83	494	45	622
16:30-17:30	103	490	57	650
17:30-18:30	64	252	29	345
TOTAL	316	1590	160	2066

SOUTHBOUND Approach

Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	0	0	0
14:30-15:30	30	361	38	429
15:30-16:30	42	348	37	427
16:30-17:30	43	358	44	445
17:30-18:30	23	206	25	254
TOTAL	138	1273	144	1555

TOTAL	XING S/L		XING N/L	
N-S	Ped	Sch	Ped	Sch
0	0	0	0	0
0	0	0	0	0
878	20	40	15	8
1049	14	26	9	2
1095	16	9	8	3
599	18	5	4	0
3621	68	80	36	13

EASTBOUND Approach

Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	3	0	3
14:30-15:30	80	274	116	470
15:30-16:30	119	339	83	541
16:30-17:30	88	371	109	568
17:30-18:30	56	217	63	336
TOTAL	343	1204	371	1918

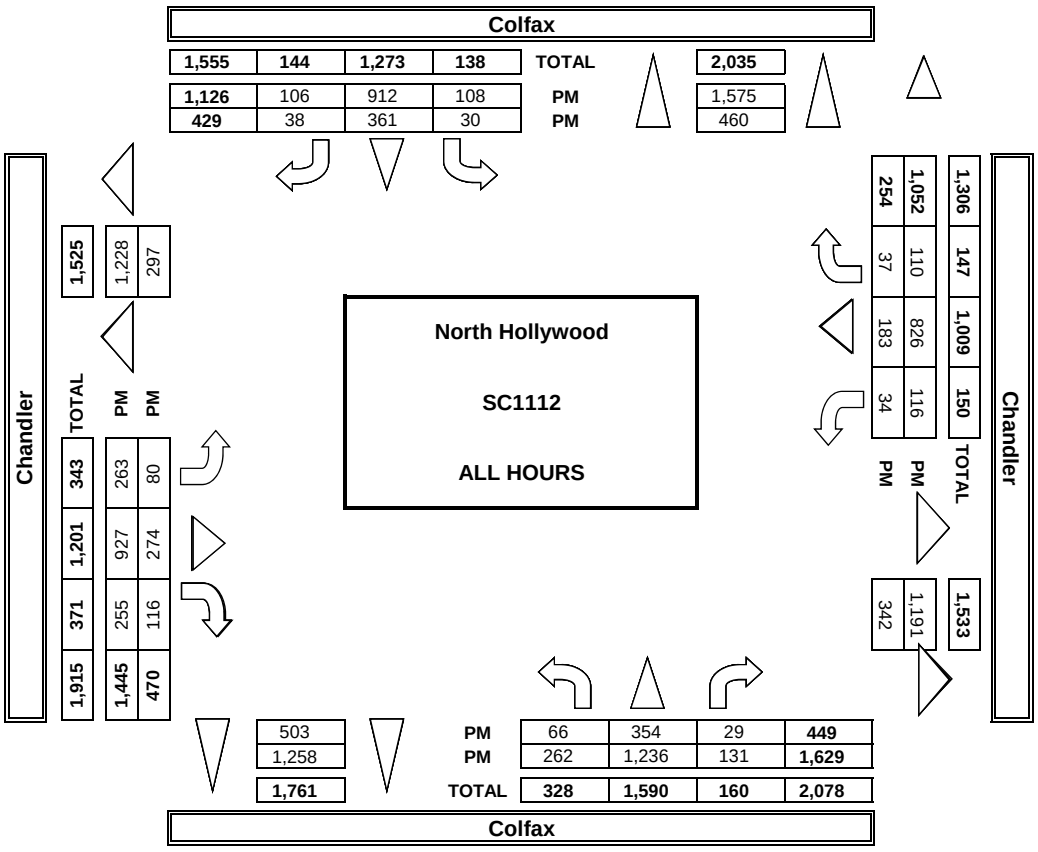
WESTBOUND Approach

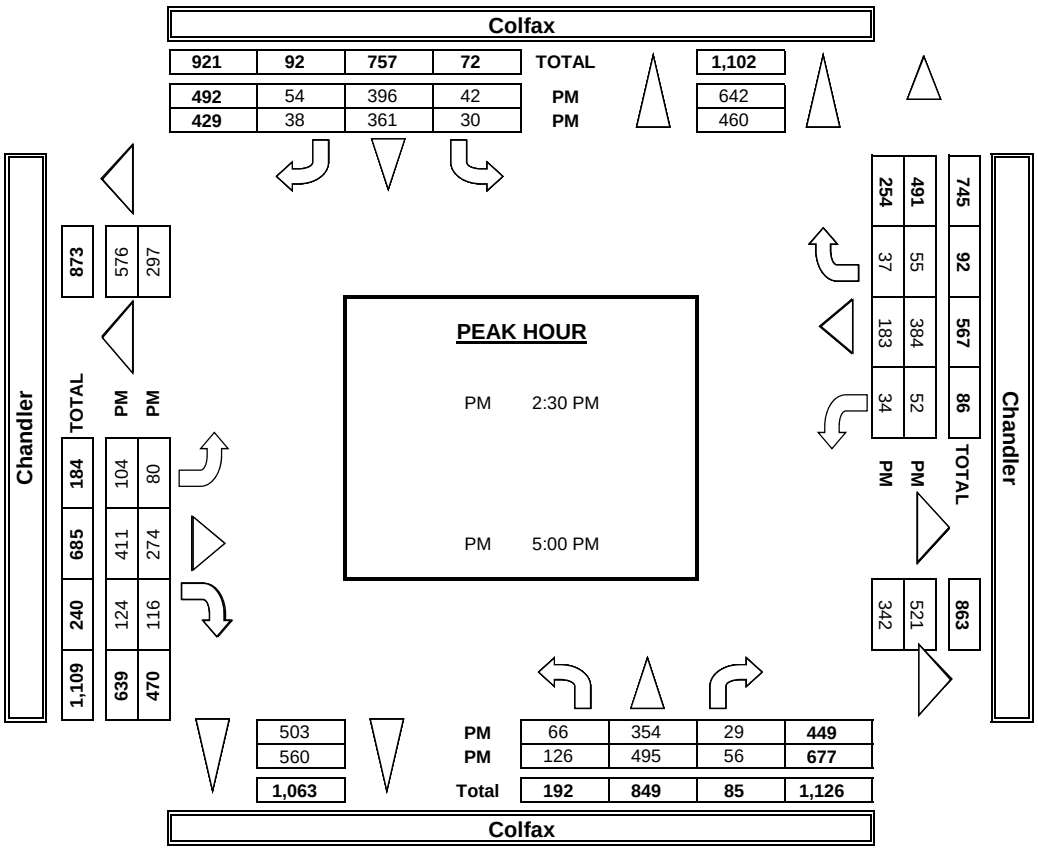
Hours	Lt	Th	Rt	Total
12:30-13:30	0	0	0	0
13:30-14:30	0	0	0	0
14:30-15:30	34	183	37	254
15:30-16:30	45	268	38	351
16:30-17:30	48	369	40	457
17:30-18:30	23	189	32	244
TOTAL	150	1009	147	1306

TOTAL	XING W/L		XING E/L	
E-W	Ped	Sch	Ped	Sch
0	0	0	0	0
3	0	0	0	0
724	17	62	15	18
892	9	64	6	20
1025	9	18	15	5
580	6	12	5	3
3224	41	156	41	46

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:					
10/26/16	LOCATION:	North Hollywood	PROJECT #:	SC1112
WEDNESDAY	NORTH & SOUTH:	Colfax	LOCATION #:	4
	EAST & WEST:	Chandler	CONTROL:	SIGNAL

NOTES:

PCE Adjusted	Class	1	2	3	4	5	6	
	Factor	1	1.5	2	3	2	2	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Chandler)			WESTBOUND (Chandler)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	2:30 PM	13	75	6	0	73	9	17	63	22	6	49	11	343					0
	2:45 PM	21	93	9	9	81	13	11	84	24	6	50	9	408					0
	3:00 PM	7	86	8	7	112	8	25	53	32	13	43	7	398					0
	3:15 PM	27	110	8	14	106	11	31	94	44	12	55	14	524					0
	VOLUMES	68	364	31	30	371	40	83	293	121	37	196	40	1,671	0	0	0	0	0
	APPROACH %	15%	79%	7%	7%	84%	9%	17%	59%	24%	14%	72%	15%						
	APP/DEPART	462	/	486	441	/	529	497	/	353	272	/	303	0					
	BEGIN PEAK HR		2:30 PM																
	VOLUMES	68	364	31	30	371	40	83	293	121	37	196	40	1,671					
	APPROACH %	15%	79%	7%	7%	84%	9%	17%	59%	24%	14%	72%	15%						
	PEAK HR FACTOR		0.796			0.845			0.739			0.850		0.798					
	APP/DEPART	462	/	486	441	/	529	497	/	353	272	/	303	0					
PM	03:30 PM	22	141	10	21	105	8	37	94	19	10	70	8	542					0
	3:45 PM	25	126	15	11	76	12	34	79	27	13	67	8	491					0
	4:00 PM	17	120	10	7	94	8	27	99	15	18	83	14	511					0
	4:15 PM	22	122	11	6	87	9	26	86	26	6	68	9	475					0
	4:30 PM	34	130	16	10	87	6	19	105	28	13	98	12	555					0
	4:45 PM	23	123	15	15	86	9	22	82	20	6	88	6	493					0
	5:00 PM	31	125	13	7	92	18	29	89	22	16	118	14	573					0
	5:15 PM	33	123	14	13	100	11	20	115	40	13	88	9	577					0
	5:30 PM	34	134	15	8	105	14	31	125	33	12	108	14	632					0
	5:45 PM	31	121	14	16	105	11	25	105	31	11	92	18	579					0
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0					0
	VOLUMES	270	1,262	133	112	934	106	268	977	260	118	877	111	5,426	0	0	0	0	0
	APPROACH %	16%	76%	8%	10%	81%	9%	18%	65%	17%	11%	79%	10%						
	APP/DEPART	1,664	/	1,641	1,152	/	1,312	1,505	/	1,221	1,106	/	1,253	0					
	BEGIN PEAK HR		5:00 PM																
	VOLUMES	129	502	56	44	401	54	105	433	126	52	405	55	2,361					
	APPROACH %	19%	73%	8%	9%	80%	11%	16%	65%	19%	10%	79%	11%						
	PEAK HR FACTOR		0.940			0.949			0.879			0.868		0.934					
	APP/DEPART	687	/	662	499	/	579	663	/	533	512	/	588	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

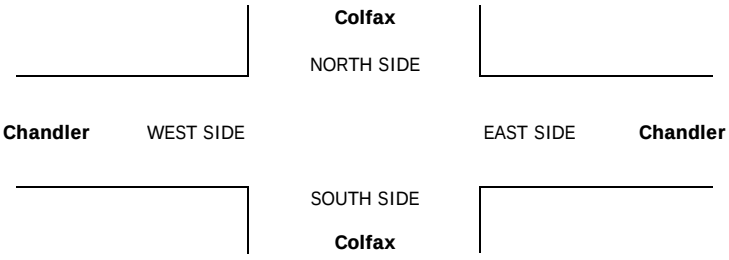
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chandler	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND Chandler			WESTBOUND Chandler				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	13	66	6	0	61	9	17	54	18	3	43	9	299	0	0	3	0	3
2:45 PM	19	87	9	9	78	11	6	73	22	6	42	9	371	1	0	0	0	1
3:00 PM	7	79	6	7	105	3	23	43	27	9	39	5	353	0	0	2	2	4
3:15 PM	24	104	6	14	99	11	29	81	42	12	44	10	476	0	0	4	6	10
VOLUMES	63	336	27	30	343	34	75	251	109	30	168	33	1,499	1	0	9	8	18
APPROACH %	15%	79%	6%	7%	84%	8%	17%	58%	25%	13%	73%	14%						
APP/DEPART	426	/	435	407	/	475	435	/	316	231	/	273	0					
BEGIN PEAK HR		2:30 PM																
VOLUMES	62	336	27	30	343	34	66	251	109	22	168	33	1,499					
APPROACH %	15%	79%	6%	7%	84%	8%	15%	58%	25%	10%	73%	14%						
PEAK HR FACTOR		0.795			0.821			0.715			0.875		0.787					
APP/DEPART	426	/	435	407	/	475	435	/	316	231	/	273	0					
PM 03:30 PM	20	133	10	19	90	8	37	88	17	10	59	6	497	0	0	4	3	7
3:45 PM	22	114	15	11	74	12	32	64	25	11	57	8	445	0	0	5	3	8
4:00 PM	17	115	10	5	86	8	23	93	15	16	69	14	471	0	0	5	3	8
4:15 PM	20	110	9	4	80	9	22	74	22	6	59	9	424	0	0	2	1	3
4:30 PM	28	125	14	8	79	6	19	93	28	13	84	10	507	0	0	3	3	6
4:45 PM	21	113	15	15	80	9	20	74	20	6	78	6	457	0	0	1	0	1
5:00 PM	28	120	13	4	89	18	29	78	22	16	103	14	534	0	0	4	4	8
5:15 PM	33	114	14	13	98	11	18	105	38	13	80	9	546	0	0	1	4	5
5:30 PM	32	131	15	8	102	14	31	113	33	12	94	14	599	0	0	4	2	6
5:45 PM	31	116	14	14	99	11	25	89	29	11	81	18	538	0	0	3	2	5
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	252	1,191	129	101	877	106	256	871	249	114	764	108	5,018	0	0	32	25	57
APPROACH %	16%	76%	8%	9%	81%	10%	19%	63%	18%	12%	77%	11%						
APP/DEPART	1,572	/	1,523	1,084	/	1,215	1,376	/	1,126	986	/	1,154	0					
BEGIN PEAK HR		5:00 PM																
VOLUMES	124	481	56	39	388	54	91	385	122	40	358	55	2,217					
APPROACH %	19%	73%	8%	8%	81%	11%	15%	63%	20%	9%	77%	12%						
PEAK HR FACTOR		0.928			0.970			0.862			0.874		0.925					
APP/DEPART	661	/	627	481	/	550	610	/	492	465	/	548	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

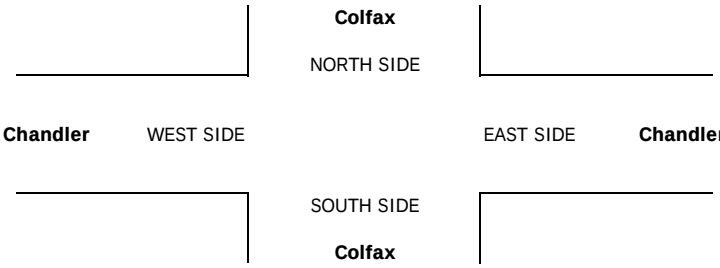
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chandler	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Chandler)			WESTBOUND (Chandler)				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
PM 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	6	0	0	8	0	0	2	1	2	1	1	21	0	0	0	1	1
2:45 PM	1	4	0	0	2	1	2	3	1	0	1	0	15	0	0	1	0	1
3:00 PM	0	3	1	0	3	3	1	1	2	0	0	1	15	0	0	1	0	1
3:15 PM	2	4	0	0	3	0	1	3	0	0	3	1	17	0	0	0	0	0
VOLUMES	3	17	1	0	16	4	4	9	4	2	5	3	68	0	0	2	1	3
APPROACH %	14%	81%	5%	0%	80%	20%	24%	53%	24%	20%	50%	30%						
APP/DEPART	21	/	22	20	/	21	17	/	11	10	/	14	0					
BEGIN PEAK HR		2:30 PM																
VOLUMES	3	17	1	0	16	4	2	9	4	1	5	3	68					
APPROACH %	14%	81%	5%	0%	80%	20%	12%	53%	24%	10%	50%	30%						
PEAK HR FACTOR		0.875			0.625			0.708			0.625		0.810					
APP/DEPART	21	/	22	20	/	21	17	/	11	10	/	14	0					
PM 03:30 PM	0	5	0	1	3	0	0	1	0	0	3	1	14	0	0	0	0	0
3:45 PM	2	5	0	0	1	0	0	3	0	0	1	0	12	0	0	0	0	0
4:00 PM	0	2	0	1	4	0	1	0	0	1	4	0	13	0	0	1	0	1
4:15 PM	1	5	1	1	3	0	1	0	1	0	2	0	15	0	0	0	0	0
4:30 PM	1	3	0	1	5	0	0	0	0	0	1	1	12	0	0	0	0	0
4:45 PM	1	5	0	0	4	0	1	1	0	0	1	0	13	0	0	0	0	0
5:00 PM	0	3	0	2	2	0	0	2	0	0	3	0	12	0	0	0	0	0
5:15 PM	0	6	0	0	1	0	1	1	1	0	1	0	11	0	0	0	0	0
5:30 PM	1	2	0	0	2	0	0	1	0	0	4	0	10	0	0	0	0	0
5:45 PM	0	3	0	0	1	0	0	4	0	0	2	0	10	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	6	39	1	6	26	0	4	13	2	1	22	2	122	0	0	1	0	1
APPROACH %	13%	85%	2%	19%	81%	0%	21%	68%	11%	4%	88%	8%						
APP/DEPART	46	/	44	32	/	29	19	/	20	25	/	29	0					
BEGIN PEAK HR		3:30 PM																
VOLUMES	3	17	1	3	11	0	1	4	1	1	10	1	54					
APPROACH %	14%	81%	5%	21%	79%	0%	14%	57%	14%	8%	83%	8%						
PEAK HR FACTOR		0.750			0.700			0.583			0.600		0.900					
APP/DEPART	21	/	19	14	/	13	7	/	8	12	/	14	0					



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chandler	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Chandler)			WESTBOUND (Chandler)				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	3:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
	VOLUMES	0	1	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%						
	APP/DEPART	1	/	1	0	/	0	0	/	0	1	/	1	0					
	BEGIN PEAK HR		2:30 PM																
	VOLUMES	0	1	0	0	0	0	0	0	0	0	1	0	2					
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%						
	PEAK HR FACTOR		0.250			0.000			0.000			0.250		0.500					
	APP/DEPART	1	/	1	0	/	0	0	/	0	1	/	1	0					
PM	03:30 PM	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	3:45 PM	0	2	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0
	4:00 PM	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0
	4:15 PM	0	2	0	0	0	0	1	0	0	0	0	0	3	0	0	1	0	1
	4:30 PM	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	2	4	0	0	0	0	3	0	0	0	0	0	9	0	0	1	0	1
	APPROACH %	33%	67%	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%						
	APP/DEPART	6	/	6	0	/	0	3	/	0	0	/	3	0					
	BEGIN PEAK HR		3:30 PM																
	VOLUMES	1	4	0	0	0	0	2	0	0	0	0	0	8					
	APPROACH %	20%	80%	0%	0%	0%	0%	67%	0%	0%	0%	0%	0%						
	PEAK HR FACTOR		0.625			0.000			0.750			0.000		0.667					
	APP/DEPART	5	/	6	0	/	0	3	/	0	0	/	2	0					

Colfax

NORTH SIDE

Chandler WEST SIDE EAST SIDE **Chandler**

SOUTH SIDE

Colfax

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

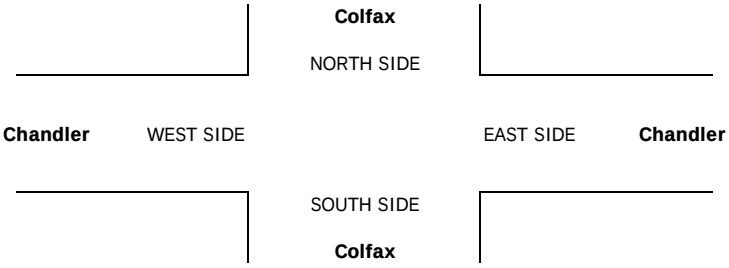
DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chandler	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND (Colfax)			SOUTHBOUND (Colfax)			EASTBOUND (Chandler)			WESTBOUND (Chandler)				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
PM 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		12:30 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM 03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	1	/	0	0	/	0	0	/	0	0	/	1	0					
BEGIN PEAK HR		4:15 PM																
VOLUMES	1	0	0	0	0	0	0	0	0	0	0	0	1					
APPROACH %	100%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.250			0.000			0.000			0.000		0.250					
APP/DEPART	1	/	0	0	/	0	0	/	0	0	/	1	0					



INTERSECTION TURNING MOVEMENT COUNTS

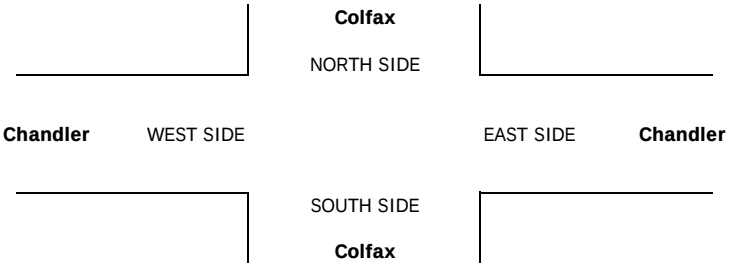
PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chandler	CONTROL:	SIGNAL

CLASS 5:	NOTES:
RV	

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND Chandler			WESTBOUND Chandler				U-TURNS				
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
PM 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		12:30 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
PM 03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					
BEGIN PEAK HR		3:30 PM																
VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0					
APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%						
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000					
APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0					



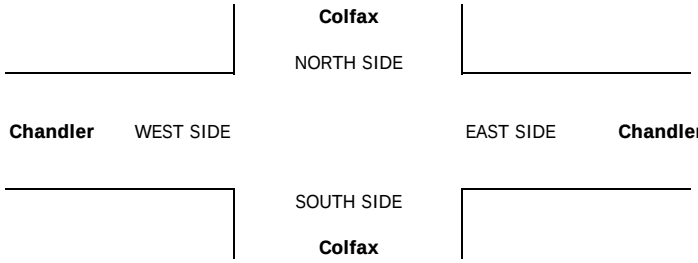
INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	North Hollywood	PROJECT #:	SC1112
10/26/16	NORTH & SOUTH:	Colfax	LOCATION #:	4
WEDNESDAY	EAST & WEST:	Chandler	CONTROL:	SIGNAL

CLASS 6:	NOTES:	AM		▲ N	
BUSES		PM			
		MD	◄ W		E ►
		OTHER		S ▼	
		OTHER			

		NORTHBOUND Colfax			SOUTHBOUND Colfax			EASTBOUND Chandler			WESTBOUND Chandler				U-TURNS				
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	TOTAL	NB	SB	EB	WB	TTL
PM	12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2:30 PM	0	0	0	0	0	0	0	3	1	0	2	0	6	0	0	0	0	0
	2:45 PM	0	0	0	0	0	0	1	3	0	0	3	0	7	0	0	0	0	0
	3:00 PM	0	0	0	0	1	0	0	4	1	2	2	0	10	0	0	0	0	0
	3:15 PM	0	0	1	0	1	0	0	4	1	0	2	1	10	0	0	0	0	0
	VOLUMES	0	0	1	0	2	0	1	14	3	2	9	1	33	0	0	0	0	0
	APPROACH %	0%	0%	100%	0%	100%	0%	6%	78%	17%	17%	75%	8%						
	APP/DEPART	1	/	2	2	/	7	18	/	15	12	/	9	0					
	BEGIN PEAK HR		2:30 PM																
	VOLUMES	0	0	1	0	2	0	1	14	3	2	9	1	33					
	APPROACH %	0%	0%	100%	0%	100%	0%	6%	78%	17%	17%	75%	8%						
	PEAK HR FACTOR		0.250			0.500			0.900			0.750		0.825					
	APP/DEPART	1	/	2	2	/	7	18	/	15	12	/	9	0					
PM	03:30 PM	0	0	0	0	5	0	0	2	1	0	3	0	11	0	0	0	0	0
	3:45 PM	0	0	0	0	0	0	0	5	1	1	4	0	11	0	0	0	0	0
	4:00 PM	0	1	0	0	1	0	0	3	0	0	4	0	9	0	0	0	0	0
	4:15 PM	0	0	0	0	1	0	0	6	1	0	3	0	11	0	0	0	0	0
	4:30 PM	1	0	1	0	0	0	0	6	0	0	6	0	14	0	0	0	0	0
	4:45 PM	0	1	0	0	0	0	0	3	0	0	4	0	8	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	4	0	0	5	0	9	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	4	0	0	3	0	7	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	5	0	0	4	0	9	0	0	0	0	0
	5:45 PM	0	0	0	1	2	0	0	5	1	0	4	0	13	0	0	0	0	0
	6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	1	2	1	1	9	0	0	43	4	1	40	0	102	0	0	0	0	0
	APPROACH %	25%	50%	25%	10%	90%	0%	0%	91%	9%	2%	98%	0%						
	APP/DEPART	4	/	2	10	/	14	47	/	45	41	/	41	0					
	BEGIN PEAK HR		3:45 PM																
	VOLUMES	1	1	1	0	2	0	0	20	2	1	17	0	45					
	APPROACH %	33%	33%	33%	0%	100%	0%	0%	91%	9%	6%	94%	0%						
	PEAK HR FACTOR		0.375			0.500			0.786			0.750		0.804					
	APP/DEPART	3	/	1	2	/	5	22	/	21	18	/	18	0					



KOA CORPORATION
PLANNING & ENGINEERING

APPENDIX B – LOS WORKSHEETS

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Morella Avenue	Year of Count:	2017	Ambient Growth: (%):	1	Conducted by:	KOA Corp	Date:	11/10/2017
1	East-West Street:	Magnolia Blvd	Projection Year:	2020	Peak Hour:	AM	Reviewed by:		Project:	LAUSD - North Hollywood High School

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases		2	2			2			2	2			2	2				2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0	0			0	0				0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		0	NB-- 0 SB--		0	NB-- 0 SB--		0	0	NB-- 0 SB--		0	0	NB-- 0 SB--			0
		EB-- 0 WB--		0	EB-- 0 WB--		0	EB-- 0 WB--		0	0	EB-- 0 WB--		0	0	EB-- 0 WB--			0
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2	2			2	2				2
	Override Capacity			0			0			0	0			0	0				0
NORTHBOUND	Left	61	0	61	0	61	61	0	63	0	63	0	63	0	63	0	63	0	63
	Left-Through		0							0				0				0	
	Through	6	0	113	0	6	113	0	6	0	116	0	6	0	116	0	6	0	116
	Through-Right		0							0				0				0	
	Right	46	0	0	0	46	0	0	47	0	0	0	47	0	0	0	47	0	0
	Left-Through-Right		1							1				1				1	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	5	0	5	7	12	12	0	5	0	5	7	12	0	12	0	12	0	12
	Left-Through		0							0				0				0	
	Through	4	0	22	0	4	31	0	4	0	22	0	4	0	31	0	4	0	31
	Through-Right		0							0				0				0	
	Right	13	0	0	2	15	0	0	13	0	0	2	15	0	0	0	15	0	0
	Left-Through-Right		1							1				1				1	
	Left-Right		0							0				0				0	
EASTBOUND	Left	20	0	20	12	32	32	0	21	0	21	12	33	0	33	0	33	0	33
	Left-Through		1							1				1				1	
	Through	840	0	860	0	840	872	2	867	0	888	0	867	0	900	0	867	0	900
	Through-Right		0							0				0				0	
	Right	39	1	39	0	39	39	0	40	1	40	0	40	1	40	0	40	1	40
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	45	1	45	0	45	45	0	46	1	46	0	46	1	46	0	46	1	46
	Left-Through		0							0				0				0	
	Through	801	0	845	0	801	943	2	827	0	872	0	827	0	970	0	827	0	970
	Through-Right		1							1				1				1	
	Right	44	0	0	98	142	0	0	45	0	0	98	143	0	0	0	143	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	North-South:		118	North-South:		125	North-South:			121	North-South:			128	North-South:			128
		East-West:		905	East-West:		975	East-West:			934	East-West:			1003	East-West:			1003
		SUM:		1023	SUM:		1100	SUM:			1055	SUM:			1131	SUM:			1131
	VOLUME/CAPACITY (V/C) RATIO:			0.682			0.733				0.703				0.754				0.754
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.582			0.633				0.603				0.654				0.654
	LEVEL OF SERVICE (LOS):			A			B				B				B				B

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.051

Significant impacted? NO

PROPOSED PROJECT IMPACT

Change in *v/c* due to project: 0.051

Significant impacted? NO

$\Delta v/c$ after mitigation: 0.051

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Morella Avenue				Year of Count:	2017		Ambient Growth: (%):	1		Conducted by:	KOA Corp		Date:	11/10/2017	
1	East-West Street:	Magnolia Blvd				Projection Year:	2020		Peak Hour:	PM		Reviewed by:			Project:	LAUSD - North Hollywood High School	
No. of Phases			2				2			2				2			2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0				0			0				0			0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--		0	NB-- 0	SB--	0	NB-- 0	SB--	0	NB-- 0	SB--	0	NB-- 0	SB--	0
	EB-- 0	WB--	0	EB-- 0	WB--		0	EB-- 0	WB--	0	EB-- 0	WB--	0	EB-- 0	WB--	0	EB-- 0	WB--	0
ATSAC-1 or ATSAC+ATCS-2?			2				2			2				2			2
Override Capacity			0				0			0				0			0

	MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	9	0	9	0	9	9	0	9	0	9	0	9	0	9	0	9	0	9
	Left-Through		0							0				0				0	
	Through	2	0	32	0	2	32	0	2	0	33	0	2	0	33	0	2	0	33
	Through-Right		0							0				0				0	
	Right	21	0	0	0	21	0	0	22	0	0	0	22	0	0	0	22	0	0
	Left-Through-Right		1							1				1				1	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	11	0	11	43	54	54	0	11	0	11	43	54	0	54	0	54	0	54
	Left-Through		0							0				0				0	
	Through	2	0	42	0	2	97	0	2	0	43	0	2	0	98	0	2	0	98
	Through-Right		0							0				0				0	
	Right	29	0	0	12	41	0	0	30	0	0	12	42	0	0	0	42	0	0
	Left-Through-Right		1							1				1				1	
	Left-Right		0							0				0				0	
EASTBOUND	Left	9	0	9	2	11	11	0	9	0	9	2	11	0	11	0	11	0	11
	Left-Through		1							1				1				1	
	Through	814	0	823	0	814	825	3	842	0	851	0	842	0	853	0	842	0	853
	Through-Right		0							0				0				0	
	Right	12	1	12	0	12	12	0	12	1	12	0	12	1	12	0	12	1	12
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	25	1	25	0	25	25	0	26	1	26	0	26	1	26	0	26	1	26
	Left-Through		0							0				0				0	
	Through	880	0	923	0	880	939	2	909	0	953	0	909	0	969	0	909	0	969
	Through-Right		1							1				1				1	
	Right	43	0	0	16	59	0	0	44	0	0	16	60	0	0	0	60	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES			North-South:	51		North-South:	106		North-South:	52			North-South:	107			North-South:	107	
			East-West:	932		East-West:	950		East-West:	962			East-West:	980			East-West:	980	
			SUM:	983		SUM:	1056		SUM:	1014			SUM:	1087			SUM:	1087	
VOLUME/CAPACITY (V/C) RATIO:				0.655			0.704			0.676				0.725				0.725	
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.555			0.604			0.576				0.625				0.625	
LEVEL OF SERVICE (LOS):				A			B			A				B				B	

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.049

Significant impacted? NO

PROPOSED PROJECT IMPACT

Change in v/c due to project: 0.049

Significant impacted? NO

Δv/c after mitigation: 0.049

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Year of Count:	Ambient Growth (%):	Conducted by:	Date:
2	Colfax Avenue	2017	1	KOA Corp	11/10/2017
	East-West Street: Magnolia Blvd	Projection Year: 2020	Peak Hour: AM	Reviewed by:	Project: AUSD - North Hollywood High Schoo

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND																		
Left	70	1	70	12	82	82	0	72	1	72	12	84	1	84	0	84	1	84
Left-Through		0							0				0				0	
Through	348	1	**287**	0	348	**287**	9	368	1	**301**	0	368	1	**301**	0	368	1	**301**
Through-Right		1							1				1				1	
Right	226	0	226	0	226	226	0	233	0	233	0	233	0	233	0	233	0	233
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
SOUTHBOUND																		
Left	136	1	**136**	5	141	**141**	0	140	1	**140**	5	145	1	**145**	0	145	1	**145**
Left-Through		0							0				0				0	
Through	483	1	320	1	484	333	8	506	1	334	1	507	1	347	0	507	1	347
Through-Right		1							1				1				1	
Right	156	0	156	25	181	181	0	161	0	161	25	186	0	186	0	186	0	186
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
EASTBOUND																		
Left	41	1	**41**	1	42	**42**	0	42	1	**42**	1	43	1	**43**	0	43	1	**43**
Left-Through		0							0				0				0	
Through	758	1	431	5	763	434	4	785	1	446	5	790	1	449	0	790	1	449
Through-Right		1							1				1				1	
Right	104	0	104	1	105	105	0	107	0	107	1	108	0	108	0	108	0	108
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
WESTBOUND																		
Left	99	1	99	0	99	99	0	102	1	102	0	102	1	102	0	102	1	102
Left-Through		0							0				0				0	
Through	671	1	**671**	62	733	**733**	2	693	1	**693**	62	755	1	**755**	0	755	1	**755**
Through-Right		0							0				0				0	
Right	82	1	14	0	82	12	0	84	1	14	0	84	1	12	0	84	1	12
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
CRITICAL VOLUMES	*North-South:*		423	*North-South:*		428	*North-South:*			441	*North-South:*			446	*North-South:*			446
	East-West:		712	*East-West:*		775	*East-West:*			735	*East-West:*			798	*East-West:*			798
	SUM:		1135	*SUM:*		1203	*SUM:*			1176	*SUM:*			1244	*SUM:*			1244
VOLUME/CAPACITY *(V/C)* RATIO:			0.757			0.802				0.784				0.829				0.829
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.657			0.702				0.684				0.729				0.729
LEVEL OF SERVICE (LOS):			B			C				B				C				C

	NB--	SB--	EB--	WB--
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				
Right Turns: FREE-1, NRTOR-2 or OLA-3?	0	0	0	0
ATSAC-1 or ATSAC+ATCS-2?				
Override Capacity				

	EXISTING CONDITION	EXISTING PLUS PROJECT	FUTURE CONDITION W/O PROJECT	FUTURE CONDITION W/ PROJECT	FUTURE W/ PROJECT W/ MITIGATION
No. of Phases	2	2	2	2	2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?	0	0	0	0	0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	0	0	0	0	0
ATSAC-1 or ATSAC+ATCS-2?	2	2	2	2	2
Override Capacity	0	0	0	0	0

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.045

Significant impacted? NO

PROPOSED PROJECT IMPACT

Change in *v/c* due to project: 0.045

Significant impacted? YES

Δ*v/c* after mitigation: 0.045

Fully mitigated? NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Year of Count:	Ambient Growth (%):	Conducted by:	Date:
2	Colfax Avenue	2017	1	KOA Corp	11/10/2017
	East-West Street: Magnolia Blvd	Projection Year: 2020	Peak Hour: PM	Reviewed by:	Project: AUSD - North Hollywood High Schoo

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			2			2			2				2				2	
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		0	NB-- 0 SB--		0	NB-- 0 SB--		0		NB-- 0 SB--		0		NB-- 0 SB--		0	
		EB-- 0 WB--		0	EB-- 0 WB--		0	EB-- 0 WB--		0		EB-- 0 WB--		0		EB-- 0 WB--		0	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
	Override Capacity			0			0			0				0				0	
NORTHBOUND	Left	113	1	113	2	115	115	0	116	1	116	2	118	1	118	0	118	1	118
	Left-Through		0							0				0				0	
	Through	495	1	495	0	495	495	17	527	1	527	0	527	1	527	0	527	1	527
	Through-Right		0							0				0				0	
	Right	221	1	161	0	221	161	0	228	1	166	0	228	1	166	0	228	1	166
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	80	1	80	31	111	111	0	82	1	82	31	113	1	113	0	113	1	113
	Left-Through		0							0				0				0	
	Through	364	2	182	6	370	185	18	393	2	197	6	399	2	200	0	399	2	200
	Through-Right		0							0				0				0	
	Right	91	1	59	4	95	60	0	94	1	61	4	98	1	62	0	98	1	62
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	64	1	64	6	70	70	0	66	1	66	6	72	1	72	0	72	1	72
	Left-Through		0							0				0				0	
	Through	700	1	388	31	731	407	3	724	1	401	31	755	1	420	0	755	1	420
	Through-Right		1							1				1				1	
	Right	76	0	76	6	82	82	0	78	0	78	6	84	0	84	0	84	0	84
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	120	1	120	0	120	120	0	124	1	124	0	124	1	124	0	124	1	124
	Left-Through		0							0				0				0	
	Through	745	1	745	10	755	755	4	772	1	772	10	782	1	782	0	782	1	782
	Through-Right		0							0				0				0	
	Right	106	1	66	0	106	51	0	109	1	68	0	109	1	53	0	109	1	53
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	North-South:		575	North-South:		606	North-South:		609		North-South:		640		North-South:		640	
		East-West:		809	East-West:		825	East-West:		838		East-West:		854		East-West:		854	
		SUM:		1384	SUM:		1431	SUM:		1447		SUM:		1494		SUM:		1494	
	VOLUME/CAPACITY (V/C) RATIO:			0.923			0.954			0.965				0.996				0.996	
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.823			0.854			0.865				0.896				0.896	
	LEVEL OF SERVICE (LOS):			D			D			D				D				D	

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.031

Significant impacted? NO

PROPOSED PROJECT IMPACT

Change in *v/c* due to project: 0.031

Significant impacted? YES

Δ*v/c* after mitigation: 0.031

Fully mitigated? NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Colfax Avenue	Year of Count:	2017	Ambient Growth (%):	1	Conducted by:	KOA Corp	Date:	11/10/2017
3	East-West Street:	McCormick Street	Projection Year:	2020	Peak Hour:	AM	Reviewed by:		Project:	AUSD - North Hollywood High Schoo

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			2			2			2				2					2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0					0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		0	NB-- 0 SB--		0	NB-- SB--		0		NB-- 0 SB--		0		NB-- 0 SB--			0
		EB-- 0 WB--		0	EB-- 0 WB--		0	EB-- WB--		0		EB-- 0 WB--		0		EB-- 0 WB--			0
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2					2
	Override Capacity			0			0			0				0					0
NORTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through		0							0				0				0	
	Through	423	1	238	1	424	238	9	445	1	250	1	446	1	250	0	446	1	250
	Through-Right		1							1				1				1	
	Right	52	0	52	0	52	52	0	54	0	54	0	54	0	54	0	54	0	54
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	71	1	71	0	71	71	0	73	1	73	0	73	1	73	0	73	1	73
	Left-Through		0							0				0				0	
	Through	738	1	738	31	769	769	8	768	1	768	31	799	1	799	0	799	1	799
	Through-Right		0							0				0				0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through		0							0				0				0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right		0							0				0				0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	42	0	42	0	42	42	0	43	0	43	0	43	0	43	0	43	0	43
	Left-Through		0							0				0				0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right		0							0				0				0	
	Right	81	0	123	0	81	123	0	83	0	126	0	83	0	126	0	83	0	126
	Left-Through-Right		0							0				0				0	
	Left-Right		1							1				1				1	
	CRITICAL VOLUMES	North-South:		738	North-South:		769	North-South:		768		North-South:		799		North-South:			799
		East-West:		123	East-West:		123	East-West:		126		East-West:		126		East-West:			126
		SUM:		861	SUM:		892	SUM:		894		SUM:		925		SUM:			925
	VOLUME/CAPACITY (V/C) RATIO:			0.574			0.595			0.596				0.617					0.617
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.474			0.495			0.496				0.517					0.517
	LEVEL OF SERVICE (LOS):			A			A			A				A					A

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.021

Significant impacted? NO

PROPOSED PROJECT IMPACT

Change in *v/c* due to project: 0.021

Significant impacted? NO

Δ*v/c* after mitigation: 0.021

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Colfax Avenue	Year of Count:	2017	Ambient Growth (%):	1	Conducted by:	KOA Corp	Date:	11/10/2017
3	East-West Street:	McCormick Street	Projection Year:	2020	Peak Hour:	PM	Reviewed by:		Project:	AUSD - North Hollywood High Schoo

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			2			2			2				2					2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0					0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		0	NB-- 0 SB--		0	NB-- SB--		0		NB-- 0 SB--		0		NB-- 0 SB--		0	
		EB-- 0 WB--		0	EB-- 0 WB--		0	EB--		0		EB-- 0 WB--		0		EB-- 0 WB--		0	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2					2
	Override Capacity			0			0			0				0					0
NORTHBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through		0							0				0				0	
	Through	628	1	331	6	634	334	17	664	1	350	6	670	1	353	0	670	1	353
	Through-Right		1							1				1				1	
	Right	34	0	34	0	34	34	0	35	0	35	0	35	0	35	0	35	0	35
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	40	1	40	0	40	40	0	41	1	41	0	41	1	41	0	41	1	41
	Left-Through		0							0				0				0	
	Through	512	1	512	41	553	553	18	546	1	546	41	587	1	587	0	587	1	587
	Through-Right		0							0				0				0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through		0							0				0				0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right		0							0				0				0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	25	0	25	0	25	25	0	26	0	26	0	26	0	26	0	26	0	26
	Left-Through		0							0				0				0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right		0							0				0				0	
	Right	32	0	57	0	32	57	0	33	0	59	0	33	0	59	0	33	0	59
	Left-Through-Right		0							0				0				0	
	Left-Right		1							1				1				1	
	CRITICAL VOLUMES	North-South:		512	North-South:		553	North-South:			546	North-South:			587	North-South:			587
		East-West:		57	East-West:		57	East-West:			59	East-West:			59	East-West:			59
		SUM:		569	SUM:		610	SUM:			605	SUM:			646	SUM:			646
	VOLUME/CAPACITY (V/C) RATIO:			0.379			0.407				0.403				0.431				0.431
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.279			0.307				0.303				0.331				0.331
	LEVEL OF SERVICE (LOS):			A			A				A				A				A

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.028

Significant impacted? NO

PROPOSED PROJECT IMPACT

Change in *v/c* due to project: 0.028

Significant impacted? NO

Δ*v/c* after mitigation: 0.028

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Year of Count:	Ambient Growth (%):	Conducted by:	Date:
4	Colfax Avenue	2017	1	KOA Corp	11/10/2017
	East-West Street: Chandler Boulevard	Projection Year: 2020	Peak Hour: AM	Reviewed by:	Project: AUSD - North Hollywood High Schoo

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
No. of Phases			2			2			2				2				2	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--		0	NB-- 0 SB--		0	NB-- SB--		0		NB-- 0 SB--		0		NB-- 0 SB--		0	
	EB-- 0 WB--		0	EB-- 0 WB--		0	EB--		0		EB-- 0 WB--		0		EB-- 0 WB--		0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
Override Capacity			0			0			0				0				0	
NORTHBOUND Left	107	1	**107**	0	107	**107**	0	110	1	**110**	0	110	1	**110**	0	110	1	**110**
NORTHBOUND Left-Through		0							0				0				0	
NORTHBOUND Through	420	1	241	1	421	241	3	436	1	253	1	437	1	253	0	437	1	253
NORTHBOUND Through-Right		1							1				1				1	
NORTHBOUND Right	61	0	61	0	61	61	6	69	0	69	0	69	0	69	0	69	0	69
NORTHBOUND Left-Through-Right		0							0				0				0	
NORTHBOUND Left-Right		0							0				0				0	
SOUTHBOUND Left	119	1	119	0	119	119	0	123	1	123	0	123	1	123	0	123	1	123
SOUTHBOUND Left-Through		0							0				0				0	
SOUTHBOUND Through	548	1	**548**	12	560	**560**	1	566	1	**566**	12	578	1	**578**	0	578	1	**578**
SOUTHBOUND Through-Right		0							0				0				0	
SOUTHBOUND Right	19	1	0	0	19	0	0	20	1	0	0	20	1	0	0	20	1	0
SOUTHBOUND Left-Through-Right		0							0				0				0	
SOUTHBOUND Left-Right		0							0				0				0	
EASTBOUND Left	111	1	111	3	114	114	0	114	1	114	3	117	1	117	0	117	1	117
EASTBOUND Left-Through		0							0				0				0	
EASTBOUND Through	706	2	**353**	2	708	**354**	6	733	2	**367**	2	735	2	**368**	0	735	2	**368**
EASTBOUND Through-Right		0							0				0				0	
EASTBOUND Right	216	1	163	6	222	169	0	223	1	168	6	229	1	174	0	229	1	174
EASTBOUND Left-Through-Right		0							0				0				0	
EASTBOUND Left-Right		0							0				0				0	
WESTBOUND Left	133	1	**133**	12	145	**145**	7	144	1	**144**	12	156	1	**156**	0	156	1	**156**
WESTBOUND Left-Through		0							0				0				0	
WESTBOUND Through	263	2	132	0	263	132	7	278	2	139	0	278	2	139	0	278	2	139
WESTBOUND Through-Right		0							0				0				0	
WESTBOUND Right	57	1	0	0	57	0	0	59	1	0	0	59	1	0	0	59	1	0
WESTBOUND Left-Through-Right		0							0				0				0	
WESTBOUND Left-Right		0							0				0				0	
CRITICAL VOLUMES	North-South:		655	North-South:		667	North-South:		676		North-South:		688		North-South:			688
	East-West:		486	East-West:		499	East-West:		511		East-West:		524		East-West:			524
	SUM:		1141	SUM:		1166	SUM:		1187		SUM:		1212		SUM:			1212
VOLUME/CAPACITY (V/C) RATIO:			0.761			0.777			0.791				0.808					0.808
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.661			0.677			0.691				0.708					0.708
LEVEL OF SERVICE (LOS):			B			B			B				C					C

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.016

Significant impacted? NO

PROPOSED PROJECT IMPACT

Change in *v/c* due to project: 0.017

Significant impacted? NO

Δ*v/c* after mitigation: 0.017

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Year of Count:	Ambient Growth (%):	Conducted by:	Date:
4	Colfax Avenue	2017	1	KOA Corp	11/10/2017
	East-West Street: Chandler Boulevard	Projection Year: 2020	Peak Hour: PM	Reviewed by:	Project: AUSD - North Hollywood High Schoo

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND																		
Left	128	1	**128**	0	128	**128**	0	132	1	**132**	0	132	1	**132**	0	132	1	**132**
Left-Through		0							0				0				0	
Through	500	1	279	6	506	282	1	516	1	295	6	522	1	298	0	522	1	298
Through-Right		1							1				1				1	
Right	57	0	57	0	57	57	15	74	0	74	0	74	0	74	0	74	0	74
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
SOUTHBOUND																		
Left	43	1	43	0	43	43	0	44	1	44	0	44	1	44	0	44	1	44
Left-Through		0							0				0				0	
Through	400	1	**400**	2	402	**402**	3	415	1	**415**	2	417	1	**417**	0	417	1	**417**
Through-Right		0							0				0				0	
Right	55	1	2	0	55	0	0	57	1	3	0	57	1	0	0	57	1	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
EASTBOUND																		
Left	106	1	**106**	18	124	**124**	0	109	1	**109**	18	127	1	**127**	0	127	1	**127**
Left-Through		0							0				0				0	
Through	416	2	208	12	428	214	15	444	2	222	12	456	2	228	0	456	2	228
Through-Right		0							0				0				0	
Right	126	1	62	37	163	99	0	130	1	64	37	167	1	101	0	167	1	101
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
WESTBOUND																		
Left	53	1	53	2	55	55	15	70	1	70	2	72	1	72	0	72	1	72
Left-Through		0							0				0				0	
Through	388	2	**194**	0	388	**194**	14	414	2	**207**	0	414	2	**207**	0	414	2	**207**
Through-Right		0							0				0				0	
Right	56	1	35	0	56	35	0	58	1	36	0	58	1	36	0	58	1	36
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
CRITICAL VOLUMES	*North-South:*		528	*North-South:*		530	*North-South:*			547	*North-South:*			549	*North-South:*			549
	East-West:		300	*East-West:*		318	*East-West:*			316	*East-West:*			334	*East-West:*			334
	SUM:		828	*SUM:*		848	*SUM:*			863	*SUM:*			883	*SUM:*			883
VOLUME/CAPACITY *(V/C)* RATIO:			0.552			0.565				0.575				0.589				0.589
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.452			0.465				0.475				0.489				0.489
LEVEL OF SERVICE (LOS):			A			A				A				A				A

	NB--	SB--	EB--	WB--
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?				
Right Turns: FREE-1, NRTOR-2 or OLA-3?	0	0	0	0
ATSAC-1 or ATSAC+ATCS-2?				
Override Capacity				

	EXISTING CONDITION	EXISTING PLUS PROJECT	FUTURE CONDITION W/O PROJECT	FUTURE CONDITION W/ PROJECT	FUTURE W/ PROJECT W/ MITIGATION
No. of Phases	2	2	2	2	2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?	0	0	0	0	0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	0	0	0	0	0
ATSAC-1 or ATSAC+ATCS-2?	2	2	2	2	2
Override Capacity	0	0	0	0	0

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.013

Significant impacted? NO

PROPOSED PROJECT IMPACT

Change in *v/c* due to project: 0.014

Significant impacted? NO

Δ*v/c* after mitigation: 0.014

Fully mitigated? N/A

APPENDIX G

CULTURAL RESOURCES SURVEY REPORT

CULTURAL RESOURCES SURVEY

FOR THE

NORTH HOLLYWOOD HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

Los Angeles Unified School District
Los Angeles County, California



Prepared for:

Los Angeles Unified School District, OEHS
333 S. Beaudry Avenue 21st Floor
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Prepared by:

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SEPTEMBER 2017

CULTURAL RESOURCES SURVEY

FOR THE

NORTH HOLLYWOOD HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

Los Angeles Unified School District
Los Angeles County, California

Los Angeles Unified School District, OEHS
333 S. Beaudry Avenue 21st Floor
Los Angeles, CA 90017

SEPTEMBER 28, 2017

Prepared by: _____ Date: September 28, 2017
Stephen O'Neil, M.A., RPA
UltraSystems Environmental Inc.

Reviewed by: _____ Date: September 28, 2017
Alan P. Garfinkel Gold, Ph.D., RPA
UltraSystems Environmental Inc.

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1.0 INTRODUCTION

1.1 Overview

This Phase I Cultural Resources Survey was completed in support of the Los Angeles Unified School District's (LAUSD or District) North Hollywood High School Comprehensive Modernization Project (Project). The Project is an element of the District's School Upgrade Program. It includes demolition of structures that are beyond repair, construction of new buildings, seismic retrofit, mechanical systems upgrades and modernization of existing buildings, and upgrades to infrastructure, including sanitary sewers, water lines, and electrical utilities. The core campus of North Hollywood High School is composed of one- and two-story permanent buildings clad in stucco dating to 1927, with additions to those early structures in 1930 and 1936. A major campus expansion occurred in the mid-1950s and again in the late 1990s with numerous portable building installations located in the Agricultural Area on the western side of the campus. The campus has previously been found eligible for the National Register of Historic Places (NRHP) and is on the California Register of Historical Resources (McAvoy 1996). Primary contributors to the eligibility listing are Kennedy Hall (Administration Building), the Library and period landscaping; secondary contributors are Frasher Hall, the Auditorium and buildings in the Agricultural Area; the tertiary contributors consist of Randolph Hall and the Girl's Physical Education Building (Tang 2017:3-4).

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 and mechanical systems; and upgrades to infrastructure, including sanitary sewers, water lines, flood control features, landscape and electrical utilities. As part of the renovation a number of facilities are to be demolished. These include: the Auditorium (part of the 1927 core campus), Randolph Hall, the boys' and girls' physical education buildings, wood shop and other shop buildings, an auto shop building, the music classroom, a student store and concessions building, and approximately 29 classrooms in relocatable and modular buildings. Modernization and upgrades will be made to the Kennedy Hall (Administration Building), Frasher Hall, and the Library (part of the 1927 core campus or 1936 expansion). Structures that would be built include approximately 62 general, science and specialty classrooms and support spaces, and a new gymnasium.

North Hollywood High School is located on a 25.1-acre site at 5231 Colfax Avenue in the City of Los Angeles, California (**Attachment A, Figure 6**). Regional access to the campus is provided by Chandler Boulevard, which intersects California State Route 170 (Hollywood Freeway). The campus is bordered by Colfax Boulevard to the east, Magnolia Boulevard to the south, and Chandler Boulevard to the north (**Attachment A, Figure 6**). The archival study area includes a 0.5-mile buffer surrounding the Project which is situated in a fully developed urban landscape (**Attachment A, Figure 7**). The Project is mapped on the *Van Nuys, Calif*., USGS 7.5-minute 1966 (photorevised 1972) topographic quadrangle, Range 14 W, Township 1 N, within unsectioned lands of the Rancho Ex-Mission San Fernando within the community of Valley View, in the City of Los Angeles. (**Attachment A, Figure 7**).

A cultural resources records search was conducted at the South Central Coastal Information Center (SCCIC) at the California State University, Fullerton, which is the local California Historic Resources Information System (CHRIS) Information Center. The purpose of the records search was to identify previously recorded cultural resources (prehistoric and historic archaeological sites, historic buildings, structures, objects, or districts) within the Project area and a half-mile radius. The records search included a review of previously recorded prehistoric and historic archaeological sites within

the proposed Project area and an 0.5-mile buffer, and a review of previously completed cultural resource surveys and/or excavation reports within that same geographical area.

A cultural resources record search, Native American consultations, and an intensive pedestrian cultural resources survey were undertaken by Stephen O'Neil, M.A., RPA, who qualifies as a Prehistoric Archaeologist and Historic Archaeologist per United States Secretary of the Interior Standards (see **Attachment B**). Consultations took place between Mr. O'Neil and the Native American Heritage Commission (NAHC) and local tribal organizations. This consultation supports the requirements of the oversight agency regarding consultations with Native American tribal organizations.

The historic architecture was addressed in a previously prepared Character Defining Features Memorandum (CDFM) for North Hollywood High School (Jerabek et al. 2016) and in the historic resources Project Effect Assessment report provided as Appendix G in the IS/MND (Tang 2017). The assessment concluded that demolition of one of the secondary contributors to the NRHP contributing components to the eligibility of the campus's historical significance, and demolition of the two tertiary contributors, would be less than significant with District Standard Conditions of Approval measures incorporated (Tang 2017:7).

2.0 SETTINGS

2.1 Natural Setting

North Hollywood High School is situated in the southeastern portion of the San Fernando Valley, which is located in the northwestern part of the Los Angeles Basin. The Valley is surrounded by mountains on all sides with the Santa Monica Mountains lying to the west and south, separating the Valley from the Pacific Ocean. The San Gabriel Mountains are located to the north, and the Verdugo and Cahuenga Hills are just to the east between the San Fernando Valley and the urban enclave of Los Angeles itself. The Los Angeles River courses through the southern edge of the San Fernando Valley, entering through a pass from the Simi Valley to the northwest and exiting to the Basin between the Santa Monica Mountains and Cahuenga Hills to the southeast. Several creeks cross the Valley from the San Gabriel Mountains on the north and from canyons on the south, making this a well-watered valley. Prior to Euro-American invasion into the San Fernando Valley, the plain was a verdant grassland with patches of chaparral and dotted with oaks spilling out from large groves in the surrounding hills.

The Project site is located in the community of Valley Village, a portion of the city of Los Angeles, which is shown on the *Van Nuys, California*, 1966 (photorevised 1972) USGS quadrangle map. Valley Village is bordered by the communities of Valley Glen to the northwest, North Hollywood to the north and east, Studio City to the south and Sherman Oaks to the west and southwest, all within in the boundaries of the city of Los Angeles, within Los Angeles County. The Project site is at elevations ranging from 631 to 645 feet above mean sea level and slopes slightly to the south, draining to Tujunga Wash. With an estimated population of 25,655 in 2008, the Valley Village community has an area of 2.09 square miles. The community is served by State Route 101/Ventura Freeway on the south and State Highway 170/Hollywood Freeway along the east. The general climate is typical of southern California with mild, rainy winters, and warm, dry summers. Winter low temperatures range in the mid-40s, however, the summer highs can easily reach 100 degrees, notably hotter than in the adjacent Los Angeles Basin.

2.2 Cultural Setting

2.2.1 Prehistoric Context

The term "prehistoric period" refers to the period of pre-contact Native California lifeways and traditions prior to the arrival of Euroamericans.

It is widely acknowledged that human occupation in the Americas began only about 13,000 or more years ago (all dates presented here are calibrated radiocarbon ages or calendar dates). However, recent discoveries in areas outside of California have pushed that age back several thousand years more to about 15,000 or even perhaps nearly 20,000 years ago (Smith and Barker 2017).

To describe and understand the cultural processes that occurred during prehistory, archaeologists have routinely developed a number of chronological frameworks to correlate technological and cultural changes recognized in the archaeological record. These summaries bracket certain time spans into distinct archaeological horizons, traditions, complexes, and phases.

There are many such models even for the various sub-regions of Southern California (cf. Grayson 2011; Jones and Klar 2007; Warren 1984). Given the variety of environments and the mosaic of diverse cultures within California, prehistory is typically divided into specific sub-regions that

include the Interior of Southeastern California and the Mojave Desert (Warren and Crabtree 1986) and San Diego and the Colorado Desert (Meighan 1954; True 1958, 1970).

Many archaeologists tend to follow the regional syntheses adapted from a scheme developed by William J. Wallace in 1955 and modified by others (Chartkoff and Chartkoff 1984; Moratto 1984; Sutton et al. 2007; Wallace 1978; Warren 1968). Although the beginning and ending dates vary, the general framework of prehistory in the area consists of the following four periods:

- **Paleoindian and Lake Mojave Periods** [Pleistocene and Early Holocene] (ca. 11000 B.C. to 6,000 B.C.). This time period is characterized by highly mobile foraging strategies and a broad spectrum of subsistence pursuits. These earliest expressions of aboriginal occupation in America were marked by the use of large dart or spear points (Fluted and Concave Base Points) that are an element of the Western Clovis expression. Following the earliest portions of this time span there was a change in climate coincident with the retreat of the glaciers. Large bodies of water existed and lakeside aboriginal adaptations were common. Large stemmed points (Western Stemmed – Lake Mojave and Silver Lake) accompanied by a wide variety of formalized stone tools were employed with the aid of atlatls (dart throwers) and are representative of an adaptation that was in part focused on lacustrine environments.

- **Millingstone Horizon** [Middle Holocene] (ca. 6,000 B.C. to A.D. 1,000), during which mobile hunter-gatherers became more sedentary and plant foods and small game animals came to the forefront of indigenous subsistence strategies. This prehistoric cultural expression is often characterized by a large number of millingstones, with especially well-made, deep-basin metates and formalized, portable handstones (manos). Additionally, the cultural assemblage is dominated by an abundance of scraping tools (including scraper planes and pounding/pulping implements), and only a slight representation of dart-tipped projectile points (Pinto, Elko and Gypsum types).

- **Late Prehistoric Period** (ca. A.D. 1000 to 1500), during which a more complex social organization, more diversified subsistence base and an extensive use of the bow and arrow is evidenced. Small, light arrow points (Rose Spring Series), expedient millingstones and, later, pottery mark this period along with the full development of regional Native cultures and tribal territories.

- **Protohistoric Period** (ca. A.D. 1500 to 1700s) ushered in long-distance contacts with Europeans, and thereby led to the Historic Period (ca. A.D. 1700 to contemporary times). Small arrow points are recognized as Desert Side-notched and Cottonwood forms and are a hallmark of this time period.

2.2.2 Ethnohistoric Context

The Project area lies within the area of the Gabrielino/Tongva ethnolinguistic group (Bean and Smith 1978:538), who speak languages of the Uto-Aztecan language stock or superfamily. Gabrielino is specifically identified as a member of the Northern Takic Branch of that linguistic group.

The Gabrielino were considered the most populous, wealthiest, and therefore most powerful ethnic nationality in aboriginal southern California (Bean and Smith 1978:538). Unfortunately, most Gabrielino cultural practices had declined long before systematic ethnographic studies were instituted. Today, the leading studies of Gabrielino culture are Bean and Smith (1978), and McCawley (1996).

According to the recent research of several prehistorians, Takic groups were not the first inhabitants of the region. Archaeologists suggest that the Takic in-migration may have occurred as early as 2,000 years year ago, replacing or intermarrying with indigenous Hokan speakers (Howard and Raab 1993; Porcasi 1998). By the time of European contact, the Gabrielino territory included the southern Channel Islands and the Los Angeles Basin, reaching east into the present-day San Bernardino-Riverside area and south to Aliso Creek in central Orange County.

Different groups of the Gabrielino adopted varied types of subsistence, based on varying combinations of gathering, hunting, and/or fishing. Because of the similarities to other southern California tribes in economic activities, inland Gabrielino groups' industrial arts, dominated by basket weaving, demonstrated little difference from those of their neighbors (Kroeber 1925). Coastal Gabrielino material culture, on the other hand, reflected an elaborately developed artisanship most recognized through the medium of steatite, which was rivaled by few other groups in southern California.

The intricacies of Gabrielino social organization are not well known. There appeared to have been at least three hierarchically ordered social classes, topped with an elite consisting of the chiefs, their immediate families, and the very rich (Bean and Smith 1978). Some individuals owned land, and property boundaries were marked by the owner's personalized symbol. Villages were politically autonomous, composed of non-localized lineages, each with its own leader. The dominant lineage's leader was usually the village chief, whose office was generally hereditary through the male line. Often several villages were allied under the leadership of a single chief. The villages were frequently engaged in warfare against one another, resulting in what some consider to be a state of constant enmity between coastal and inland Gabrielino communities.

The first Franciscan establishment in Gabrielino territory and the broader region was Mission San Gabriel, founded in 1772. Priests from here proselytized the Tongva throughout the Los Angeles Basin region. As early as 1542, however, the Gabrielino were in contact with the Spanish during the historic expedition of Juan Rodríguez Cabrillo, but it was not until 1769 that the Spaniards took steps to colonize Gabrielino territory. Shortly afterwards, most of the Gabrielino people were incorporated into Mission San Gabriel and other missions in southern California (Engelhardt 1931). Due to introduced diseases, dietary deficiencies, and forceful *reduccion* (removal of non-agrarian Native populations to the mission compound), Gabrielino population dwindled rapidly from these impacts. By 1900, the Gabrielino Native community had almost ceased to exist as a culturally identifiable group. In the late 20th century, however, a renaissance of Native American activism and cultural revitalization among a number of groups of Gabrielino descendants took place. Among the results of this movement has been a return to a traditional name for the tribe, the Tongva, which is employed by several of the bands and organizations representing tribal members. Many of the bands focus on maintaining and teaching traditional knowledge, with special focus on language, place names and natural resources.

The Valley View area, situated in the San Fernando Valley and adjacent to the Tujunga Wash which feeds in to the Los Angeles River, was a prime location for prehistoric settlement. Villages in the area included *Kaweenga* near Universal City (and still recalled in the topographic name Cahuenga Peak to the east) (McCawley 1996:40), *Tohuunga* and *Muuhong*a at the northern edge of the Valley (McCawley 1996:39), and *Siutcanga* in Encino to the west (McCawley 1996:38).

2.2.3 Historic Context

2.2.3.1 Spanish / Mexican Era

Spanish occupation of California began in 1769, in San Diego. Prior to that, the first Europeans to explore the area that would become the state of California were members of the A.D. 1542 expedition of Juan Rodriguez Cabrillo. Cabrillo sailed along the coast of California, but did not explore the interior. Europeans did not attempt inland exploration until 1769, when Lieutenant Colonel Gaspar de Portolá led an overland expedition from San Diego to Monterey. This expedition of 62 people passed through the current study area in August 1769 (Brown 2001), and may have encountered the Tongva village of *Siutcanga* in the southwest San Fernando Valley region (Brown 2001:347; McCawley 1996:39). Here the Expedition found a spring with "a populous Indian village" where they "counted as many of two hundred and five, including men, women, and children" (Teggart in McCawley 1996:38). Mission San Gabriel was established in the Los Angeles Basin to the east in 1771, and the Los Angeles Pueblo was established as a civilian settlement on September 4, 1781 (Engelhardt 1931). Mission San Fernando Rey de España, just 7.5 miles to the northwest in the Valley, was not founded until 1797 on lands already under production for crops and mining by Francisco Reyes, then *alcalde* (mayor) of the Pueblo. After Reyes was convinced to give up his tract of land, Mission San Fernando took possession of all the lands east to the Pueblo and to the northwest almost to the Simi Valley to use in support of its growing neophyte population.

Mexico rebelled against Spain in 1810, and by 1821, Mexico, including California, achieved independence. The Mexican Republic began to grant private land to citizens to encourage emigration to California. Huge land grant ranchos took up large sections of land. Ranchos surrounded the mission lands in all directions. Except for those large tracts of land, the Mission San Gabriel and Mission San Fernando lands were used for the support of the mission and provided for the large population of Tongva Native Americans. The mission lands were held in trust for Native peoples by the Franciscan missionaries for eventual redistribution.

The use of the San Fernando Valley for grazing and crops was instituted by Reyes and the Franciscans in the 1790s and this use continued through the secularization of the mission in the mid-1830s. The Ex-Mission San Fernando was awarded as a land grant by Governor Pío Pico to Eulogio de Celis in 1846 to raise funds to fight the invading United States forces, though a portion of it had already been leased to Pico's brother Andres Pico in 1845. By 1853 Celis sold a half interest in the rancho. Andres Pico took the southern half consisting of the San Fernando Valley and a portion of the Santa Monica Mountains. Ten years later Andres sold his interest in the Rancho Ex-Mission San Fernando to his brother Pío Pico, but they continued to operate it together as a joint venture. But by 1869 Pío Pico had to sell their remaining part of the rancho to Lankershim in order to help pay off mounting debts.

The Mexican-American War of 1846 saw the invasion of California from both land and sea. Following several skirmishes in the San Diego and Los Angeles areas, and the capture of the territorial capital in Monterey, the United States rule was firmly established. Following the rapid influx of population to the north because of the Gold Rush of 1849-1850, California was made a state in 1850. The economic and social order was slow to change in the southern portion of the state, however, and rancheros were left in control of their vast estates through the 1860s. Los Angeles was a part of the "Cow Counties" and had little representation in the state legislature because of the sparse population. This allowed the predominantly Anglo population of the north to pass laws aimed at breaking up the ranches for settlement by Eastern farmers and, coupled with devastating droughts that crippled many livestock raisers, their dismemberment soon came. This helped pave the way for the "Boom of the Eighties" which saw an influx of people from the eastern United States and the beginning of many

of the towns we see today (Dumke 1944). This was the first big spurt of growth for Los Angeles, and satellite communities started to form around the City to the southeast, west and northwest, and much of the plains between these areas came to be filled with farms and orchards. The Rancho Ex-Mission San Fernando holdings in the San Fernando Valley were broken up during this period and started to be used for individual farms and orchards, while larger portions in the foothills to the north, towards Simi Valley, were still being used for cattle ranching.

2.2.3.2 The American Period

A split of the rancho lands in 1873 resulted in James Lankershim and his "San Fernando Farm Homestead Association" obtaining Pico's half of the San Fernando Valley. Lankershim's son-in-law Isaac Van Nuys took over the operation of dry wheat farming. Eventually residential subdivision of the area took place as part of a real estate development scheme by a Los Angeles syndicate created around 1909. The syndicate was developed to exploit the anticipated completion of the Los Angeles Aqueduct. The water did arrive from the Owens Valley, just east of the Sierra Nevada, and piped into the San Fernando Valley in 1913, allowing a boom in residential development in vast areas of Los Angeles County.

The community of Valley View, where North Hollywood High School is situated, initially remained agriculturally based as Van Nuys and other new towns in the Valley started to grow. It was not until the nearby motion picture studios in Burbank and Hollywood started to emerge in the 1920s that Valley View emerged as a community of upscale Mission Style single residences and apartment courts, particularly in the early 1930s. Though designated a neighborhood within the larger community of North Hollywood, as indicated by the name of its local high school, it was always an enclave within the community of higher priced homes and more expansive streets and landscaping, with ties to the entertainment industry. As such, it was already largely built out by the 1950s and not as affected by the post-World War II era boom as other parts of the San Fernando Valley.

The Valley Village neighborhood was originally a part of the community of North Hollywood. In 1985 residents sought to separate their identity from North Hollywood as property values and economic status diverged and homeowners wanted more control over local development. It was not until 1991, however, that the City of Los Angeles granted this separation and installed street markers to mark the new community boundaries of Valley Village. This covers an area of 2.09 square miles with an estimated population of 25,665 in 2009.

2.2.3.3 Project Site Land Use History

Use of the project site during the 20th century to present could be determined using historic aerial photos and USGS topographic maps (NETROnline 2017). An aerial photo from 1952 (the earliest available) indicates that the Valley Village neighborhood surrounding North Hollywood High School had already filled in this downtown area with residences, including the high school campus at its present location, and had the full complement with all of the current roads and streets surrounding the campus in place.

Topographic maps from the 1896 through 1934 show relatively open land, though all the major roads are present as is the east/west Pacific Electric rail line connecting the San Fernando Valley with downtown Los Angeles. The latter is still present along Chandler Boulevard, running along the north side of the high school campus. There is a single residence in the area of the present campus shown in the 1896 through 1913 maps with a similar very sparse settlement surrounding this area that suggests small farm agricultural use. Topographic maps from 1921 through 1932 indicate a slight

build up with three more residences within the block. The high school campus is not shown thought it is known to have been substantially constructed by 1928. There are no topographic maps available after 1932 until 1955, a 23-year gap, by which time the campus of North Hollywood High School is indicated and the surrounding area is thoroughly built up with residences. The 1955 through 1988 topo maps show the school and surrounding neighborhood as it exists today, fully built-up with dense residential development on all four sides. The only change in that time is the presence in 1968 of the Hollywood Freeway, SR 170, to the east of the campus in what had been the Tujunga Wash; this is also reflected in the 1964 aerial photo.

3.0 RESEARCH METHODS

This cultural resources inventory and related archival research included a background archaeological records check (archival research) at the SCCIC, California State University, Fullerton, a Sacred Lands File search request to the NAHC, and the list of local Native American entities to contact from the NAHC. Although the campus is fully developed and does not contain any undisturbed native soils, a pedestrian cultural resource survey of the entire Project area was conducted. This report presents the results of all of these cultural resource studies including cultural resource management recommendations.

3.1 Records Search

A cultural resource records search was conducted by Stephen O'Neil at the South Central Coastal Information Center (SCCIC) California State University, Fullerton on October 24, 2016 to identify historic properties on or near the proposed Project site. The California State Historic Resources Inventory for Los Angeles County was reviewed to identify local cultural resources that have been previously evaluated for historic significance, as well as survey reports.

Also searched and reviewed were the official records and maps for archaeological sites and surveys in Los Angeles County, the City of Los Angeles, National Register of Historic Places; Listed Properties and Determined Eligible Properties (2012), California Register of Historical Resources (2012), California Points of Historical Interest (2012), California Inventory of Historic Resources (1976), California Historical Landmarks (2012), Handbook of North American Indians, Vol. 8, California (1978), and Historic Spots in California (2002).

For the current study, the scope of the records search included a 0.5-mile buffer zone of the Project's APE (see **Attachment A, Figure 7**) to assess the sensitivity of the Project site for subsurface archaeological resources and to assist in determining the potential to encounter such resources, especially prehistoric—i.e., Native American—cultural remains, during earth-moving activities associated with the undertaking.

3.2 Field Survey

On February 9, 2017, Archaeologist Stephen O'Neil, M.A., RPA, visited the Project area to conduct a pedestrian survey. During the survey, the Project site was carefully inspected for any indication of human activities dating to the prehistoric or historic periods (i.e., 50 years or older). Because of the fully built environment of the site, direct observation of the ground was limited to landscaping around the edges of the parking lot and around the current structure.

3.3 Native American Outreach

On October 17, 2016, Mr. O'Neil sent a Sacred Lands File (SLF) search request to the Native American Heritage Commission (NAHC) via email, fax and United States Postal Service (USPS) mail and notified them of the proposed Project activities (**Attachment C**), as well as for recommendations as to the local Native American tribes and individuals that should be contacted. The Commission's SLF results were received by email on October 18, 2016. The seven Tribes and Native American contacts recommended by the NAHC were contacted by mail and email on October 19, 2016.

4.0 FINDINGS

4.1 Records Search

4.1.1 Recorded Archaeological Sites

Based on the cultural resources records search conducted at the SCCIC, no prehistoric cultural resource sites or isolates, have been recorded within the Project area boundary or within the 0.5-mile buffer zone surrounding the Project boundary. The North Hollywood High School itself has been recorded as an historic site and there are two historic period sites recorded within the buffer zone (**Table 4.1-1**). The North Hollywood High School, P-19-175261, was evaluated as part of the 1994 Northridge Earthquake Project Review (McAvoy 1996). "Five buildings form the historic core of this high school campus," consisting of the Main Building, Randolph Hall, Frasher Hall, the Library and the Auditorium, all built in 1926 and designed by architects Myron Hunt and H.C. Chambers. "The buildings are clad in stucco and have red clay tile roofs," each with significant roof overhangs. These buildings were evaluated for the National Register and found to be eligible as a district. Of the other two historic buildings within the buffer zone, the North Hollywood Branch Library (aka the Amelia Earhart Library), at 5211 Tujunga Avenue on the corner of Tujunga and Magnolia Boulevard, was constructed in 1930 (Mouck et al. 1976:4-2 and 8-24). Designed by architects Eugene and Rex Weston, who were known for their use of Spanish design and colored tiles, the library (P-19-167303) is a one-story red brick building with the roof "supported by a row of stylized concrete columns," and an entry through "decorative wrought-iron gates flanked by Mexican tile window grills…" (Mouck et al. 1976:7-11). The Library is approximately 1,100 feet east of the high school across the Hollywood Freeway and Central Tujunga Wash. It has been nominated to the National Register of Historic Places. The third historic site in the area, P-19-190682, is the David Familian Chapel of the Temple Adat Ariel (Adat Ari El, "Hebrew for "Lion of God Congregation"). Built in 1949 with designs by Herman Charles Light, it is best known as the first structure built as a synagogue in the San Fernando Valley (Bariscale 2008:1) and for the 11 stained-glass windows designed by Rabbi Aaron M. Wise depicting major Jewish holidays. The Chapel was made a California State Historic Landmark, No. 063, in 1999. Located at 5540 Laurel Canyon Boulevard, it is approximately 4,800 feet southwest of North Hollywood High School.

Table 4.1-1
KNOWN CULTURAL RESOURCES WITHIN A 0.5-MILE RADIUS OF THE APE

Site Number	Author(s)	Date	Description
P-19-167303	R. Mouck, J. Miller, R. Chattel, R. Lehrer and D. Miller	1976	The North Hollywood Branch, aka the Amelia Earhart Library (1981), of the Los Angeles Public Library System at 5211 N. Tujunga Avenue was built 1930. Designed by architects Eugene and Rex Weston, known for use of Spanish design and colored tiles. A one-story red brick building; a 1950s addition was carefully integrated into the design.
P-19-175261	C. J. McAvoy	1996	The five core buildings of North Hollywood High School were built 1926 in the Spanish Colonial Revival style, designed by architects Myron

Site Number	Author(s)	Date	Description
			Hunt and H.C. Chambers. The buildings' walls are stucco and have red tile roofs. The Main Building is two-story, L-shaped and faces Colfax Avenue; the Library and Auditorium buildings connect to the Main Blvd. via an arcade. Frasher Hall and Randolph Hall are separate two-story buildings.
P-19-190682	F.B. Bariscale	2008	The David Familian Chapel of Temple Adat Ariel is the first structure built as a synagogue in the San Fernando Valley. Constructed in 1949 at 5540 Laurel Canyon Boulevard on North Hollywood, it was designed by Herman Charles Light. It is a California State Landmark, LAN-063.

4.1.2 Previous Archaeological Investigations

According to records at the SCCIC, there have been no previous archaeological cultural resource surveys within any portion of the Project site. However, ten surveys have been identified within the 0.5-mile radius project buffer of the Project site boundary (**Table 4.1-2**). As noted above, none of the cultural resource surveys recorded prehistoric or historic cultural resources within the Project boundary. LA-3789, LA-7835 and LA-12505 were linear surveys for San Fernando Valley transportation corridors and a water recycling project that went along the North Hollywood High School's boundaries on Chandler and Magnolia Boulevards, but did not record any new cultural resources within the project's buffer zone. The remaining cultural resource surveys consisted mostly of narrowly focused telecommunications projects and the Central Tujunga Wash/SR-170 corridor, which also did not record cultural properties with the project's buffer zone (**Table 4.1-1**).

Table 4.1-2
KNOWN CULTURAL RESOURCE STUDIES WITHIN A 0.5-MILE RADIUS OF THE APE

Report Number	Author(s)	Date	Title	Resources
LA-03789	Anonymous	1996	Phase 1 Archaeological Survey / Class III Inventory, San Fernando Valley East-West Transportation Corridor Study Area, Los Angeles, California.	NA
LA-04022	D.K. McLean	1998	Archaeological Assessment for Pacific Bell Mobile Services Telecommunications Facility La 694-01, 11605 Magnolia Boulevard, North Hollywood, City and County of Los Angeles, California.	NA
LA-04850	N. Wallock	2001	Cultural Resource Assessment Cingular Wireless Facility No. Vy-025-01, Los Angeles County, California.	NA

Report Number	Author(s)	Date	Title	Resources
LA-04858	P.C. Smith	2000	Nasr Cold Plane Existing Pavement on Various On/off-ramps on Route 170 and One on Ramp Route with Rubberized Asphalt Concrete.	NA
LA-07819	G.E. Stickle	1997	A Cultural Resources Monitoring Report for the L.A. Cellular Installation of a Monopole and Attendant Facilities at Cell Site #370rl Located at 11674 Burbank Blvd., in North Hollywood, California.	NA
LA-07835	D.S Whitley & J.M. Simon	2000	Phase 1 Archaeological Survey / Class III Inventory, San Fernando Valley East-West Transportation Corridor, Brt Alternative, Study Area, Los Angeles, California.	NA
LA-07930	W.H. Bonner and J.M. Keasling	2006	Cultural Resources Records Search and Site Visit Results for Global Signal Telecommunications Facility Candidate 3019406 (Hollywood Park), 11676 Burbank Boulevard, North Hollywood, Los Angeles County, California.	19-186585
LA-10180	R.G. Hatheway	1981	Determination of Eligibility Report, North Hollywood Redevelopment Project.	19-170966, 19-170967, 19-173061, 19-186585
LA-11280	M. Larocque	2011	Hollywood Park 878062, 11676 Burbank Blvd., No. Hollywood.	NA
LA-12505	J. Wallace, S. Dietler & L. Kry	2012	Draft Phase I Cultural Resources Assessment, San Fernando Valley Water Recycling Project, City of Los Angeles, California	19-003306, 19-100281, 19-167303, 19-170966, 19-170967, 19-173061, 19-175261, 19-186585, 19-186642, 19-187950, 19-188173, 19-188464, 19-188848

4.2 Native American Outreach

The NAHC's SLF search of October 18, 2016 did not locate any traditional tribal resources within the project area (see **Attachment C**).

On October 19, 2016, letters with accompanying maps were transmitted to all seven tribes, and this same letter and map was emailed to the tribal contacts (**Attachment C)**. Follow-up correspondence

and telephone calls conducted November 14, 2016 were completed with all points of contact. These contacts and replies are described in the Native American Contact Log in **Attachment C**.

While no specific resources of cultural value or knowledge of resources, or concerns for this Project site were identified during these correspondences, general concerns regarding recent projects in the Los Angeles area were noted by the Gabrielino Band of Mission Indians, who requested that tribal monitors be present at all subsurface excavations related to the Project (**Attachment C**).

4.2.1 Tribal Cultural Resources (Assembly Bill 52)

Assembly Bill 52 requires meaningful consultation with California Native American Tribes on potential impacts to tribal cultural resources (TCRs), as defined in Public Resources Code § 21074. Tribal cultural resources are sites, features, places, cultural landscapes, sacred places, and objects with cultural value to California Native American tribes that are either potentially eligible or listed in the California Register of Historical Resources or local register of historical resources.

As part of the AB 52 process, Native American tribes must submit a written request to LAUSD (lead agency) to be notified of projects within their traditionally and culturally affiliated area. LAUSD must provide written, formal notification to those tribes within 14 days of deciding to undertake a project. The tribe must then respond to LAUSD within 30 days of receiving this notification if they want to engage in consultation, and LAUSD must begin the consultation within 30 days of receiving the tribe's request. Consultation concludes when either (1) the parties agree to mitigation measures to avoid a significant effect on a tribal cultural resource, or (2) a party, acting in good faith and after reasonable effort, concludes mutual agreement cannot be reached.

The District has not received any Tribal requests to be notified about the North Hollywood High School Comprehensive Modernization Project pursuant to AB 52. No sites were documented in the NAHC's Sacred Lands File search.

4.3 Pedestrian Survey Results

A pedestrian survey was conducted on February 9, 2017. The survey consisted of walking, visually inspecting, and photographing the exposed ground surface and landscaped areas in the Project Area, which is essentially the entire built campus: all buildings are to be either removed and replaced or renovated. As such all the southern half of the campus, where the structures are located, was inspected using standard archaeological procedures and techniques.

Planned modifications to the school would entail one permanent building to be removed and replaced in the central portion of the main campus, permanent buildings in the east and central portion of the main campus to be modified, and portable buildings to be removed from the outlying northwestern portion of the campus (**Attachment A, Figure 8**). The central portion of the main campus contains a courtyard with landscaping consisting of lawns, trees and shrubs, while on the periphery of this main campus and throughout there is a combination of shrub/tree beds and hardscape. Survey transects were conducted in an opportunistic manner in conformity with the available exposed ground surface. The survey was conducted in each area where proposed alterations to the buildings and grounds will be conducted. All exposed ground surface was observed. The courtyard space between the central permanent buildings in the main campus consisted of landscaping with both lawns and shrub/tree beds that is associated with the original 1920s design. The northern backside space of Shop Building #9, the Auditorium (Building 7) and Library (Building 6), as well as the eastern facing space of the Agricultural Area (South) with Buildings 46, 48 and 58,

which face the athletic fields, consists of asphalt blacktop with no exposed surfaces. The outlying Agricultural Areas, northwest portion of the campus, had narrow strips of grass and shrubs between buildings and access roads. The limited lawn areas were well maintained with no die-back patches that might have exposed soil, and no gopher or ground squirrel tunnels that might have brought soil to the surface. This may be seen in the lawns surrounded by the Administration (Kennedy Hall, Building 1), Auditorium, Library and Classroom (Frasher Hall, Building 2) buildings (**Figure 4.3-1** and **Figure 4.3-2**). Areas of exposed surface soil were observed in the shrub/tree beds as exemplified in the strip along the west side of the Social Arts Building (Randolph Hall, Building 5) (**Figure 4.3-3**) and within the individual tree beds in the main courtyard north of Frasher Hall **(Figure 4.3-4**). Surface visibility in the landscaped areas was limited to approximately five percent due to the presence of grass and some weeds, though the beds had open areas under the tree and shrub canopies that allowed for better visibility.

The result of the pedestrian survey was negative for both prehistoric and historic (excluding the historic school buildings themselves [Jerabek et al. 2016; Tang 2017]) sites and isolates.

Figure 4.3-1
LAWN ON WEST SIDE OF ADMINISTRATION BUILDING (KENNEDY HALL); VIEW TO SOUTH



Figure 4.3-2
LAWN AND SHRUB BEDS TO WEST OF ADMINSITRATION BUILDING (KENNEDY HALL); VIEW TO EAST



Figure 4.3-3
LANDSCAPING AND GROUND SURFACE ON WEST SIDE OF SOCIAL ARTS BUILDING (RANDOLPH HALL); VIEW TO NORTH



Figure 4.3-4
TREE BED EXAMPLE IN FRONT OF CLASSROOM BUILDING #2 (FRASHER HALL), COURTYARD, VIEW TO SOUTHWEST



5.0 MANAGEMENT CONSIDERATIONS

5.1 Site Evaluation Criteria

Evaluation of significance under the California Environmental Quality Act (CEQA) uses criteria found in eligibility statements for the California Register of Historical Resources (CRHR). Generally, a resource is to be considered historically significant if it meets the criteria for listing in the California Register of Historical Resources in the state historic preservation law [Public Resources Code § 5024.1; California Code of Regulations § 15064.5(a)(3)]. These criteria provide that a resource may be listed as a potentially significant historical resource if it:

- Is associated with the events that have made a significant contribution to the broad patterns of California history and cultural heritage.
- Is associated with the lives of person important in our past.
- Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic value.
- Has yielded, or may be likely to yield, information important in prehistory or history.

No cultural (prehistoric and/or historic archaeological) resources were identified during the present investigation; therefore, evaluation was not required for this study.

5.2 Potential Effects

No known, potentially significant cultural resources will be adversely impacted by the proposed Project. However, the presence of buried cultural (prehistoric and/or historic archaeological) resources cannot be ruled out given that major prehistoric and Contact Period sites have been found along Tujunga Creek and elsewhere in the San Fernando Valley, and that when the high school was initially constructed grading was conducted to minimal depths and thus potential present deeper cultural deposits may not have been disturbed. Therefore, LAUSD's Standard Condition of Approval (SC) SC-TCR (Tribal Cultural Resource)-1 (as specified below) will be implemented.

SC-TCR-1 All work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Native American representative has been contacted and consulted to assist in the accurate recordation and recovery of the resources.

Government Code Section 27460 et seq. mandates that there shall be no further excavation or disturbance until the Los Angeles County Coroner has determined that the remains are not subject to the provisions of Section 27491 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner, and cause of death, and the required recommendations concerning the treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the Public Resources Code.

6.0 CONCLUSIONS AND RECOMMENDATIONS

No prehistoric or historic archaeological resources were observed during the field survey. The possibility of subsurface cultural and or historical deposits is minimal. The previous cultural resources surveys within the half-mile buffer zone resulted in no archaeological sites or isolates being recorded. The fully built environment of the Project site and elevation relative to adjacent roads suggests that ground here has been significantly cut and filled, with no original surface soil remaining. While two historic properties were identified within the half-mile buffer zone in addition to the North Hollywood High School itself, none are within the APE, and the results of the pedestrian assessment indicate it is highly unlikely that historic properties will be adversely affected by construction of the Project.

Chairperson Andrew Salas of the Gabrielino Band of Mission Indians, one of the Native American tribal organizations, recommended that archaeological and tribal monitoring take place at all construction projects with subsurface work, including the present Project. The cultural resource study findings suggest that there is a low potential for finding resources. Because of the Native American concerns, it is recommended that cultural resource monitoring by both a qualified archaeologist and a local tribal monitor be required for grading and excavation. Also, if prehistoric and/or historic items are observed during subsurface activities, work should be stopped in that area and a qualified archaeologist and Native American monitor should be called to assess the findings and retrieve the material (per **SC-CUL-7** through **SC-CUL-10** and **SC-TCR-1**). If human remains are encountered during excavations associated with this Project, work will halt and the Los Angeles County Coroner will be notified (§ 5097.98 of the Public Resources Code). The Coroner will determine whether the remains are recent human origin or older Native American ancestry. If the coroner, with the aid of the supervising archaeologist, determines that the remains are prehistoric, the NAHC will be contacted. The NAHC will be responsible for designating the most likely descendant (MLD), who will be responsible for the ultimate disposition of the remains, as required by § 7050.5 of the California Health and Safety Code. The MLD will make recommendations within 24 hours of his or her notification by the NAHC. These recommendations may include scientific removal and nondestructive analysis of human remains and items associated with Native American burials (§ 7050.5 of the Health and Safety Code).

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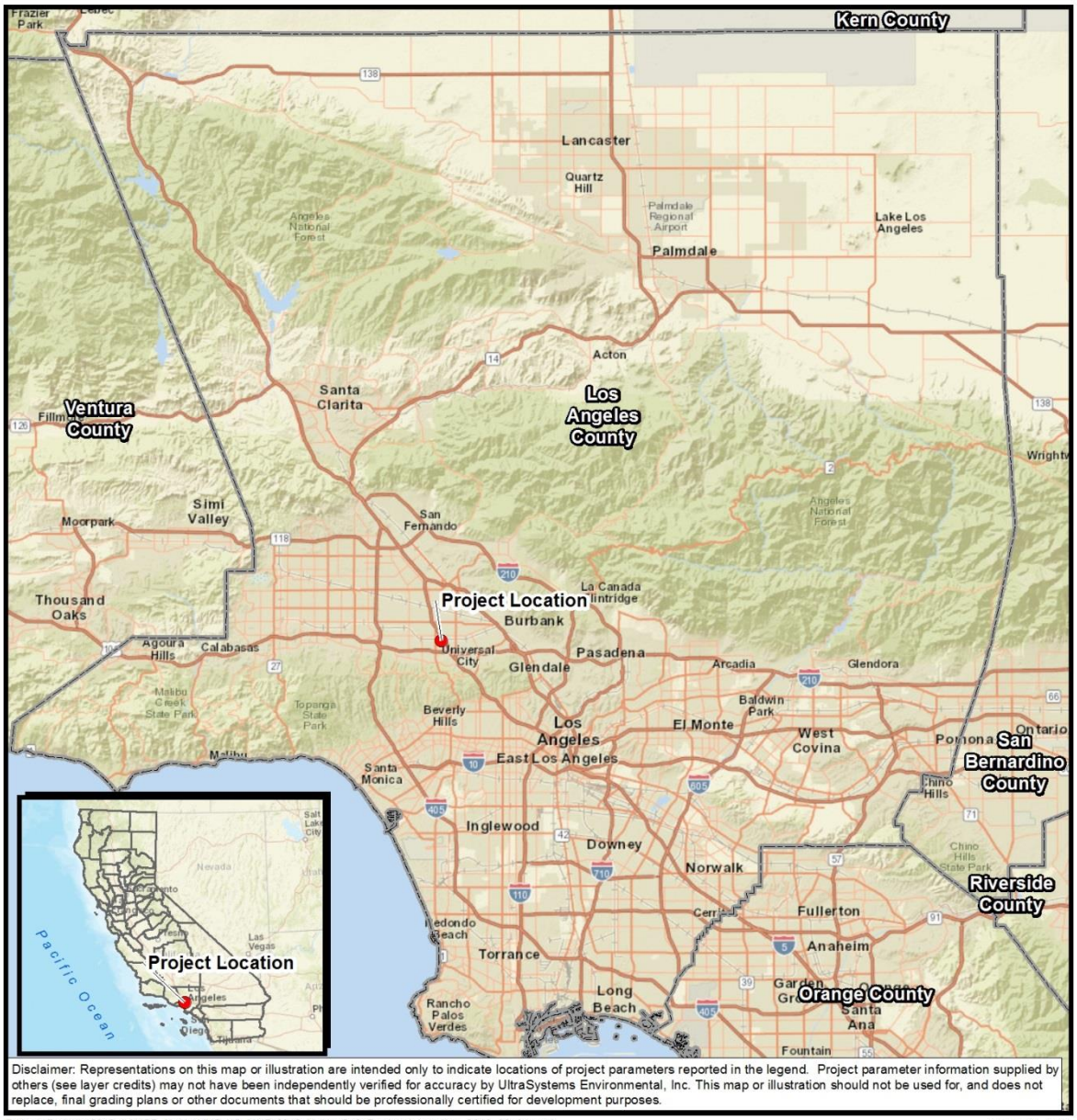
ATTACHMENTS

ATTACHMENT A

PROJECT MAPS

Figure 5
Project Regional Location Map



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Path: J:\Projects\6012_LAUSD_NoHo\MXDs\IS_MND\6012_NoHo_2_0_Regional_Location_2016_08_31.mxd
August 31, 2016

Service Layer Credits: Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community; Cal Fire, 2007; UltraSystems Environmental, Inc., 2016

North Hollywood High School Comprehensive Modernization Project

Regional Location

Scale 1:633,600

N

Legend

- Project Location
- County Boundary

0 5 10 Miles

0 5 10 Kilometers

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Figure 6
Project Study Area



Disclaimer: Representations on this map or illustration are intended only to indicate locations of project parameters reported in the legend. Project parameter information supplied by others (see layer credits) may not have been independently verified for accuracy by UltraSystems Environmental, Inc. This map or illustration should not be used for, and does not replace, final grading plans or other documents that should be professionally certified for development purposes.

Path: J:\Projects\6012_LAUSD_NoHo\MXDs\IS_MND\6012_NoHo_2.0_Project_Location_2016_08_31.mxd
August 31, 2016

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, DeLorme, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.; LA County Assessor, 2015-2016; UltraSystems Environmental, Inc., 2016

North Hollywood High School Comprehensive Modernization Project

Project Location

Scale 1:7,200

N

Legend

North Hollywood High School Parcel Boundary

0 300 600 Feet

0 100 200 Meters

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Figure 7
Topographic Map with APE Shown

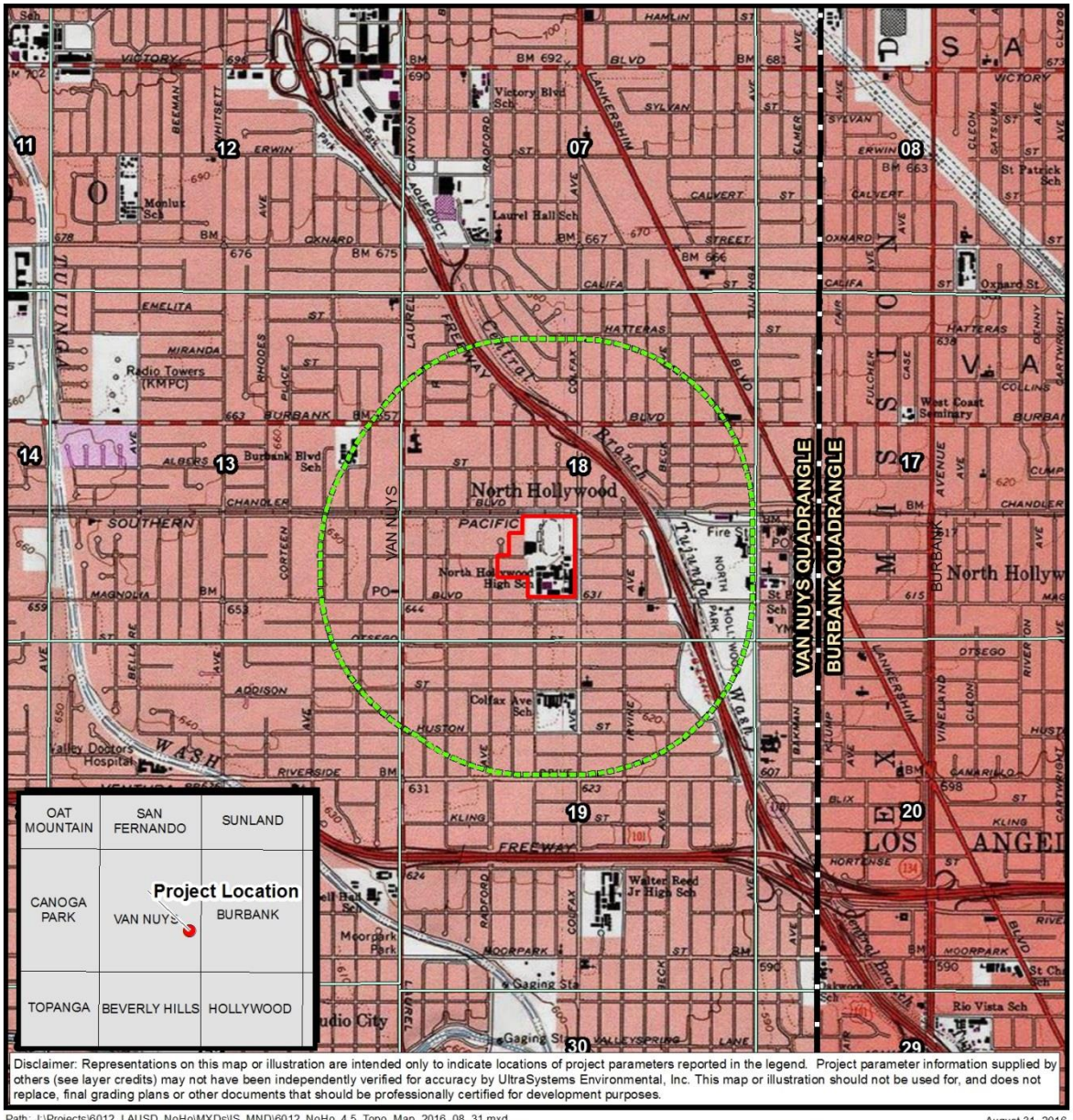
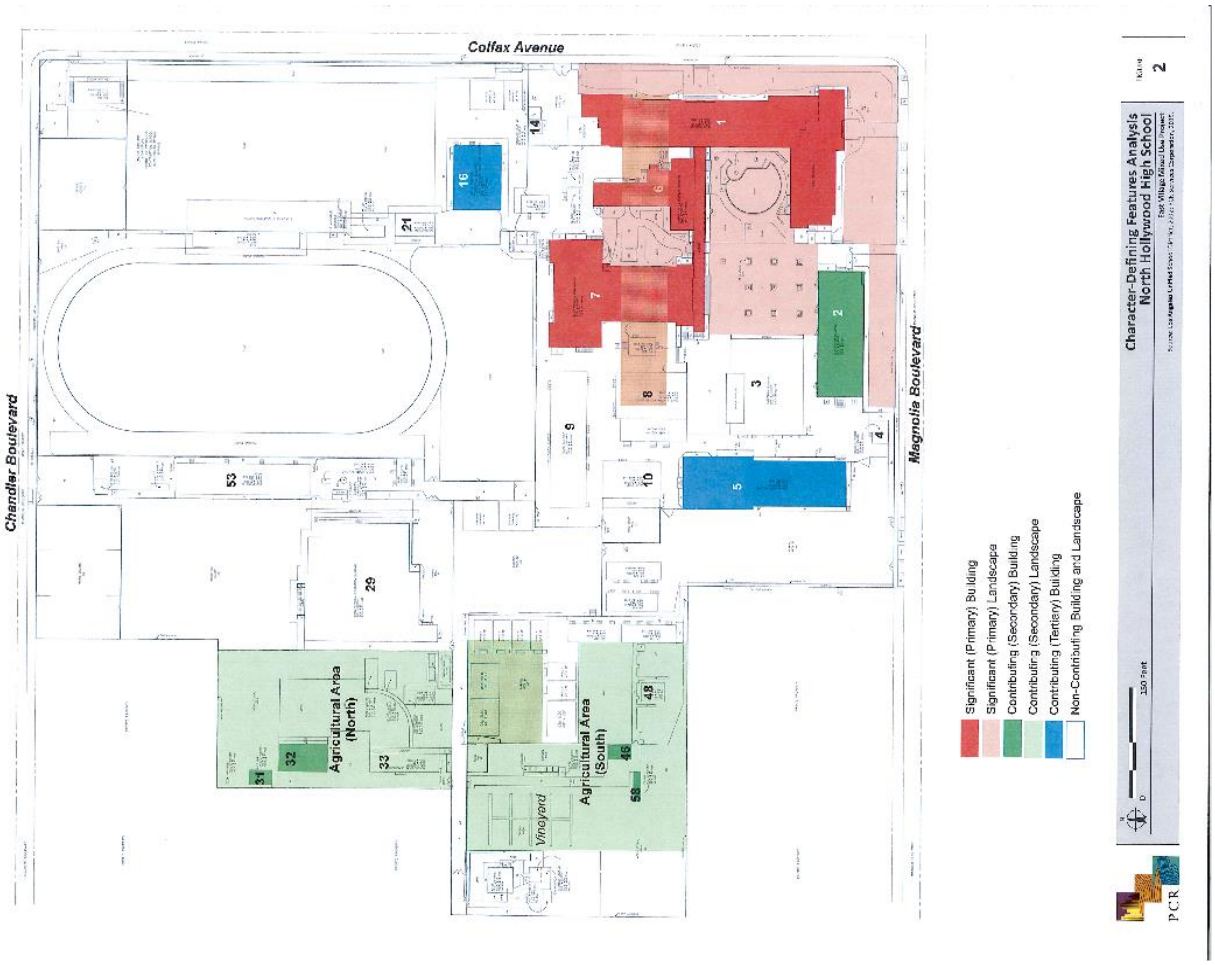


Figure 8
Character-Defining Features at North Hollywood High School



ATTACHMENT B

PERSONNEL BACKGROUND

Stephen O'Neil, M.A., RPA

Cultural Resources Manager, Cultural Anthropology/Archaeology

Education

- M.A., Anthropology (Ethnography emphasis), California State University, Fullerton, CA, 2002
- B.A., Anthropology, California State University, Long Beach, CA, 1979

Professional and Institutional Affiliations

- California Mission Studies Association
- City of Laguna Beach Environmental Sustainability Committee, appointed 2012
- Orange County Natural History Museum; Board Member
- Pacific Coast Archaeological Society; Board Member and Past President
- Society of California Archaeology

Professional Registrations and Licenses

- Register of Professional Archaeologists (No. 16104) (current)
- Riverside County, CA, Cultural Resource Consultant (No. 259) (current)
- Cultural Resource Field Director, BLM Permit (CA-13-19) – California, 2013
- NEPA and CEQ Consultation for Environmental Professionals; course by the National Association of Environmental Professionals, 2013

Professional Experience

Mr. O'Neil has 30 years of experience as a cultural anthropologist in California. He has researched and written on archaeology, ethnography, and history. Mr. O'Neil has archaeological experience in excavation, survey, monitoring, and lab work. Most of this has been on Native American prehistoric sites, but also includes Spanish, Mexican, and American period adobe sites. His supervisory experience includes excavation and survey crew chief and project director of an adobe house excavation. He has a wide range of expertise in Phase I & II Environmental Site Assessments, archaeological resource assessment surveys, salvage operations, and cultural background studies for various EIR projects. Mr. O'Neil has worked for cultural resource management firms as well as government agencies and Native American entities. He has prepared technical reports as well as published journal articles.

Select project experience

Inglewood Avenue Corridor Widening Project, City of Lawndale, Los Angeles County, CA: 2013-2014

Mr. O'Neil directed and conducted archaeological field survey, cultural resource records search, Native American contacts and report writing for this project. The City of Lawndale is widening Inglewood Avenue from Marine Avenue north. The project uses Caltrans funds and the cultural resources report was prepared in Caltrans format. A separate historic properties report was prepared as well. Prepared for Huitt-Zollars Engineering.

Via Ballena Storm Drain Relocation, City of San Clemente, Orange County, CA: 2013

Mr. O'Neil directed and conducted archaeological field survey, cultural resource records search, Native American contacts and report writing for this project. This residential area has a damaged

storm drain under Via Ballena that was causing earth movement and erosion. The meet requirements for state funding, and cultural resources inventory report was required. Prepared for the City of San Clemente

Pine Canyon Road – Three Points Road to Lake Hughes Road, Los Angeles County, CA: 2013

Mr. O'Neil directed and conducted archaeological field survey, cultural resource records search, Native American contacts and report writing for this project. This nine-mile portion of Pine Canyon Road lies partially within the Angeles National Forest. A series of widening and culvert repairs is planned by the Los Angeles County Department of Public Works (LACDPW). An assessment was made of possible cultural resources, historic and prehistoric that may be affected by the construction, and four historic sites were recorded. Prepared for LACDPW.

Alton Parkway Extension Project, Cities of Irvine and Lake Forest, Orange County, CA: 2012

Mr. O'Neil directed and conducted archaeological and paleontological monitoring, archaeological excavation, cultural resource records search, Native American contacts and report writing for this project. Alton Parkway was extended 2.1 miles between the cities of Irvine and Lake Forest. For the portion within the City of Irvine, UltraSystems conducted monitoring and excavation services. One prehistoric site was excavated and reported on; a series of living features were discovered and also reported. The final monitoring report described the paleontological and archaeological findings. A separate technical report on the archaeological excavations was also prepared. Mr. O'Neil directed research into historic and prehistoric background, and prepared the final assessment of potential impacts. Prepared for the Orange County Department of Public Works.

NEPA and CEQA Documentation, Los Angeles Regional Interoperable Communications System (LA-RICS), Los Angeles County, CA: 2011-2014

Mr. O'Neil is part of UltraSystems team currently preparing technical studies and NEPA and CEQA documentation toward the construction of LA-RICS, an $800-million emergency communications system due to be operational in 2016. LA-RICS will provide a highly coordinated emergency communications system to all first-responders to natural and man-made disasters throughout Los Angeles County. Mr. O'Neil is the cultural and historical resources studies team leader, directing five researchers. These studies include coordination of field visits to all 260-plus locations for an archaeologist and/or an architectural historian with agency escorts to observe and record any on-site prehistoric and historic features, performing records and literature searches at archaeology information centers and local archives, contacting local agencies for historically listed structures and districts, coordinate public notices of the project throughout Los Angeles County, consultation with the Native American Heritage Commission and all local tribal organizations, and direct consultation with the California State Historic Preservation Officer (SHPO). This information was compiled by Mr. O'Neil and is used to prepare FCC historical resource forms which were submitted to the SHPO for review.

Megan R. Black

Archaeological Technician

Education

- M.A. Public Archaeology, California State University, Northridge, 2012-present
- B.A., Anthropology, California State University, Long Beach, 2011
- University of California, Los Angeles- Pimu Catalina Archaeological Field School, 2010
- International Scholar Laureate Program: Delegation on Anthropology and Archaeology in China, 2009
- Earthwatch Institute, "Unearthing Mallorca's Past" archaeological excavation, Mallorca, Spain, 2005

Professional and Institutional Affiliations

- Phi Kappa Phi National Honor Society, 2011
- Sigma Alpha Lambda, National Leadership and Honor Organization, 2010
- Society for California Archaeology Membership 2012-2015

Professional Experience

Ms. Black has worked in the field of cultural resource management for five years at environmental firms. Before this Ms. Black had participated in multiple field schools in Southern California and abroad. She has experience in survey, excavation, laboratory work, and information searches. Ms. Black holds the title of Archaeological Technician at UltraSystems Environmental. Prior to this, she completed a CRM internship at UltraSystems. These positions have provided her with the opportunity to contribute to proposals, final reports, project scheduling, archaeological record searches and paleontological, archaeological and Native American monitor organizing for projects.

Select project experience

Results of the Condition Assessment, Site Monitoring, and Effects Treatment Plan (CASMET) Marine Corps Base Camp Pendleton, San Diego County, CA

Client: Marine Corps Base Camp Pendleton, Duration: 5/11 to 9/11

Ms. Black conducted survey and excavation for the USMC Base Camp Pendleton condition assessment project. Areas were tested around Camp Pendleton for the presence and condition of cultural material previously recorded. She also conducted laboratory work and curation for the material collected within excavations. Ms. Black contributed to the final report with background records searches and prehistoric and historic background writing for the report.

Archaeological Excavation Results Report for the Alton Parkway Extension Project, Orange County, CA

Client: Orange County Department of Public Works; 10/10 to 6/12

Ms. Black participated in the Alton Parkway project, City of Irvine, Orange County, CA. She was responsible for cleaning and cataloging the artifacts recovered from the excavation and surface collections. She also contributed to the final report by compiling the historical background information.

Identification and Evaluation of Historic Properties ADA Wheelchair Access Ramp Improvement Project, City of Lake Forest, Orange County, CA

Client: City of Lake Forest/Penco, 6/12 to 7/12

Ms. Black contributed to the cultural resource records search, field survey, Native American contacts and report writing for this project. This residential area required wheelchair access ramps on every corner in this neighborhood. An assessment of the possible cultural resources that may be affected with this construction was made for the City of Lake Forest. Ms. Black contributed the historic and prehistoric background, and the assessment of the possible resources in the area.

Tenaska Solar Projects Imperial Solar Energy Center–South; Imperial Solar Energy Center–West; and Wistaria Ranch, Imperial County, CA

Client: Tenaska/CSOLAR Development, 10/13 to 8/15.

Ms. Black conducted Native American contacts for field monitoring, coordinated with subcontractors to initiate cultural and paleontological field surveys, for the several solar energy projects being handled by UltraSystems Environmental in the El Centro area, Imperial County, CA. She contributed different parts of the survey report and monitoring program documents, including historic and prehistoric background, editorial review. At ISEC- West, Ms. Black was responsible for contacting and organizing Tribal monitors for this project. She contacted tribal organizations and inquired about their interest in providing tribal monitors for this project. Ms. Black directly organized with Native American groups to sign agreements, and fill out tax paperwork. She was also responsible for organizing and keeping track of and gathering field log from monitors from six tribal groups. She also recovered previously recorded artifacts in the field before the start of the project.

NEPA and CEQA Documentation, Los Angeles Regional Interoperable Communications System - Long Term Evolution, Los Angeles County, CA

Client: LARICS Joint Powers Authority, 1/12 to 1/15.

UltraSystems' team prepared technical studies and NEPA and CEQA documentation toward the construction of LA-RICS-LTE, an $800-million emergency communications system that will provide a highly coordinated emergency communications system to all first-responders to natural and man-made disasters throughout Los Angeles County. For this project Ms. Black conducted record searches at the South Central Coastal Information Center for the Department of Commerce on over 300 project sites throughout the County of Los Angeles. She helped prepare letters to the NAHC and tribal organizations associated with the project area. Ms. Black contributed to contacting, organizing, and scheduling architectural historians to conduct historical research around the project areas. Letters were written for contact to local agencies and cities. A public notice was constructed and published in three local newspapers. Ms. Black also constructed hundreds of Federal Communications Commission 620 and 621 forms for submission to California State Historic Preservation Office.

Newton Canyon Monitoring Project, CA

Client: County of Los Angeles Department of Public Works, Duration: 7/13 to 12/13

Ms. Black was an archaeological monitor for this project. She monitored all ground disturbing activities as well as lightly surveying the area for cultural material. Ms. Black also conducted the records center research at the South Central Coastal Information Center at CSUF. Through email, letter, and telephone correspondence, Ms. Black contacted the NAHC and associated tribal groups.

ATTACHMENT C

Native American Heritage Commission Records Search and Native American Contacts

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October 17, 2016

Ms. Katy Sanchez, Associate Government Program Analyst
Native American Heritage Commission
1550 Harbor Blvd., Suite 100
West Sacramento, California 95691

Subject: Historic Resources Study, Three Los Angeles Unified School District High Schools Upgrades in the City of Los Angeles, Los Angeles County, California. UltraSystems Environmental Projects No. 6011, 6012 and 6013.

Dear Ms. Sanchez,

UltraSystems Environmental, Inc. (UEI) has been contracted by the Los Angeles Unified School District, to conduct a cultural resources inventory in support of their project to conduct a facilities upgrade at three high schools. As part of the Los Angeles Unified School District's (LAUSD's or District's) School Upgrade Program, the District plans to implement a comprehensive modernization project at Venice, North Hollywood and Grant High Schools in Los Angeles and North Hollywood, California. A survey of the campuses found existing structures, mechanical systems, and athletic facilities are outdated, requiring rehabilitation or modernization to meet current needs. The project will demolish various old structures, remove others, and construct new buildings.

UltraSystems will be conducting a cultural resources study to evaluation the potential presence of prehistoric and historic resources within the project boundary. I am requesting a Native American Contact List of interested tribes, organizations and individuals in the general Project area, and a search of the Sacred Lands File for potential traditional cultural sites.

Project Descriptions:

A survey of the Venice High School campus found existing structures, mechanical systems, and athletic facilities are outdated, requiring rehabilitation or modernization to meet current needs. The campus was built between 1913 and 1914, and rebuilt following the 1933 Long Beach earthquake. Most of the current buildings were built between 1933 and 1959, although alterations and additions continued through 1980. The 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 and mechanical systems; and upgrades to infrastructure, including sanitary sewers, water lines, flood control, landscape and electrical utilities. Facilities to be removed include the following: A competitive gymnasium building, a practice gymnasium building, three industrial arts classroom buildings, approximately 14 classrooms located in relocatable buildings, and a utility building. The following structures would be built: 30 classrooms (general and specialty) and support spaces; gymnasium (practice and competitive facilities); new bleachers

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Website: www.ultrasystems.com

and resurfacing of the grass field and track in the football stadium; new bleachers and a backstop for the baseball field, and; Various site-wide upgrades to remove identified and prioritized barriers to program accessibility per the Americans with Disabilities Act.

The North Hollywood High School Comprehensive Modernization Project would include demolition of structures that are beyond repair, construction of new buildings, upgrades to infrastructure, painting, and seismic retrofits for building stabilization and safety. The main permanent buildings on the campus were built as early as 1927 and include the main administration building, classroom, library, cafeteria, gymnasium and shop and mechanic buildings. A campus expansion occurred in the mid-1950s with another expansion taking place again in the late 1990s. The Project would include demolition of the following facilities: boys' and girls' physical education buildings, classroom building (Randolph Hall), wood shop building, shop building, auto shop building, musical instrument classroom, student store and concession buildings, and approximately 29 classrooms in relocatable and modular buildings. The following structures would be built to current code requirements and LAUSD design standards: approximately 62 classrooms (general, science, and specialty) and support spaces; and Gymnasium.

The Grant High School Comprehensive Modernization Project would include demolition of structures that are beyond repair, construction of new buildings, seismic retrofit, mechanical systems upgrades and modernization of existing buildings, and upgrades to infrastructure, including sanitary sewers, water lines, and electrical utilities. The core campus is composed of one- and two-story permanent buildings clad in brick, dating to 1958 and 1959. Clusters of one-story portable buildings dating from 1935 to 1991 are located in the northwest and southeast corners of the campus. Facilities to be removed include the following: administration building, library building, maintenance and operations (M&O) building, arts building, two industrial arts classroom buildings, agricultural/horticultural classroom building and auxiliary structures, and approximately 27 classrooms located in relocatable buildings. The following structures would be built: approximately 40 general, science and specialty classrooms and support spaces, administration building, library building, M&O building, and gymnasium.

Project Locations:

Venice High School is located on a 28.8-acre site at 13000 Venice Boulevard in the city of Los Angeles, California. Regional access to the campus is provided by Venice Boulevard, which intersects Interstate 405; the campus is bordered by Lyceum Avenue to the east, Zanja Street to the south, and Walgrove Avenue to the west. The project is specifically located on the *Venice, Calif.*, USGS 7.5' topographic quadrangle, Range 15 W, Township 2 S, on unsectioned lands within the Rancho Ballona, within the community of Venice in the City of Los Angeles, Los Angeles County. This is shown on the attached map and the Project area is depicted with a one-half mile buffer zone.

North Hollywood High School is located in the Studio City neighborhood within the city of Los Angeles on a 25.1-acre site at 5231 Colfax Avenue. The school is bound by Chandler Boulevard to the north, Colfax Avenue to the east, and Magnolia Boulevard to the south. The project is specifically located on the *Van Nuys, Calif.*, USGS 7.5' topographic quadrangle, Range 14 W, Township 1 N, on unsectioned lands within the Rancho Ex-Mission San Fernando within the community of Studio City in the City of North Hollywood, Los Angeles County.

UltraSystems

Grant High School is located on a 32.4-acre site at 13000 Oxnard Street in the City of Los Angeles, California. Regional access to the campus is provided by Oxnard Street, which intersects California State Route 170 (Hollywood Freeway); the campus is bordered by Lancer Lane to the east, Hatteras Street to the south, and Ethel Avenue to the west. The project is specifically located on the *Van Nuys, Calif.*, USGS 7.5' topographic quadrangle, Range 15 W, Township 1 N, within unsectioned lands of the Rancho Ex-Mission San Fernando within the community of Valley Glen, City of Los Angeles, Los Angeles. This is shown on the attached map and the Project area is depicted with a one-half mile buffer zone.

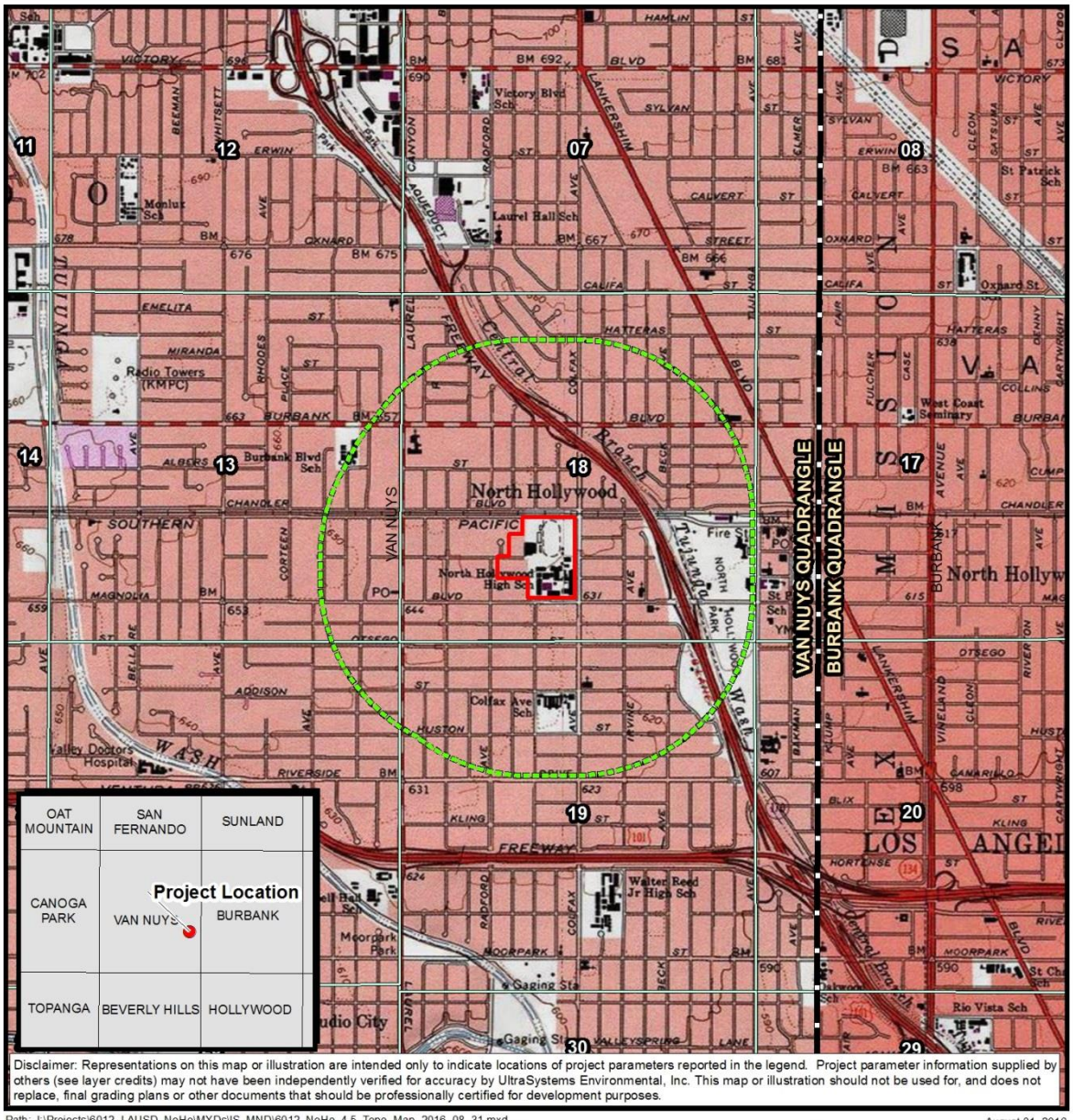
If you require additional information or have any questions, please contact me.

Thank you for your help.

Sincerely,

Stephen O'Neil, M.A., RPA
Cultural Resources Manger
soneil@ultrasystems.com

3



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August 31, 2016

Service Layer Credits: Copyright © 2013 National Geographic Society, i-cubed, Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, DeLorme, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.; Teale Data Center GIS Solutions Group, 2003; CA Dept. of Conservation, March 2013; LA County Assessor, 2015-2016; UltraSystems Environmental, Inc., 2016

North Hollywood High School Comprehensive Modernization Project

Topographic Map

Scale 1:24,000

N

0 1,000 2,000 Feet

0 250 500 Meters

Legend

- North Hollywood High School Parcel Boundary
- Half-Mile Radius
- Quadrangle Boundary
- Section Boundary
- Quadrangle Boundary

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STATE OF CALIFORNIA Edmund G. Brown, Jr., Governor

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Blvd., ROOM 100
West SACRAMENTO, CA 95691
(916) 373-3710
Fax (916) 373-5471

October 18, 2016

Stephen O'Neil, Cultural Resources Manager
UltraSystems Environmental Management and Planning

Sent by Email: soneil@ultrasystems.com

RE: Proposed Three Los Angeles Unified School District High Schools Upgrades Cultural Resources Inventory Project, City of Los Angeles; Venice and Van Nuys USGS Quadrangles, Los Angeles County, California

Dear Mr. O'Neil:

A record search of the Native American Heritage Commission (NAHC) *Sacred Lands File* (SLF) was completed for the area of potential project effect (APE) for the above referenced project. Sites have been located within the Venice Quadrangle of the APE you provided that may be impacted by the project. Please contact John Tommy Rosas at (310) 570-6567 for more information about these sites.

Please contact **ALL** culturally affiliated Tribes directly for more information about other potential sites within your APE. Their contact information is on the attached "Native American Contact List."

The absence or presence site information in the *Sacred Lands File* does not indicate the absence of Native American cultural resources in any APE. Other sources of cultural resources information should be contacted regarding known and recorded sites. Please contact all of the people on the attached list. The list should provide a starting place to locate areas of potential adverse impact within the APE. I suggest you contact all of those listed, if they cannot supply information, they might recommend others with specific knowledge. By contacting all those on the list, your organization will be better able to respond to claims of failure to consult under applicable laws. If a response has not been received within two weeks of notification, the NAHC requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton, M.A., PhD.
Associate Governmental Program Analyst

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Native American Heritage Commission
Native American Contact List
Los Angeles County
10/18/2016

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393
Covina, CA, 91723
Phone: (626) 926 - 4131
gabrielenoindians@yahoo.com

San Fernando Band of Mission Indians
John Valenzuela, Chairperson
P.O. Box 221838 Kitanemuk
Newhall, CA, 91322 Serrano
Phone: (760) 885 - 0955 Tataviam
tsen2u@hotmail.com

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393 Gabrielino
Covina, CA, 91723
Phone: (626) 926 - 4131
gabrielenoindians@yahoo.com

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693 Gabrielino
San Gabriel, CA, 91778
Phone: (626) 483 - 3564
Fax: (626)286-1262
GTTribalcouncil@aol.com

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., Gabrielino
#231
Los Angeles, CA, 90012
Phone: (951)807-0479
sgoad@gabrielino-tongva.com

Gabrielino Tongva Indians of California Tribal Council
Robert F. Dorame, Chairperson
P.O. Box 490 Gabrielino
Bellflower, CA, 90707
Phone: (562)761-6417
Fax: (562)761-6417
gtongva@verizon.net

Gabrielino-Tongva Tribe
Linda Candelaria, Co-Chairperson
1999 Avenue of the Stars, Suite Gabrielino
1100
Los Angeles, CA, 90067
Phone: (626) 676 - 1184

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Three Los Angeles Unified School District High School Upgrades Project, Los Angeles County.

PROJ-007431 10/18/2016 09:37 AM 1 of 1

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October 19, 2016

Ms Sandonne Goad, Chairperson
Gabrielino / Tongva Nation
106 ½ Judge John Aiso Street, #231
Los Angeles, California 90023

Subject: Historic Resources Study, Three Los Angeles Unified School District High Schools Upgrades in the City of Los Angeles, Los Angeles County, California. UltraSystems Environmental Projects No. 6011, 6012 and 6013.

Dear Chairperson Goad,

UltraSystems Environmental, Inc. (UEI) has been contracted by the Los Angeles Unified School District, to conduct a cultural resources inventory in support of their project to conduct a facilities upgrade at three high schools. As part of the Los Angeles Unified School District's (LAUSD's or District's) School Upgrade Program, the District plans to implement a comprehensive modernization project at Venice, North Hollywood and Grant High Schools in Los Angeles and North Hollywood, California. A survey of the campuses found existing structures, mechanical systems, and athletic facilities are outdated, requiring rehabilitation or modernization to meet current needs. The project will demolish various old structures, remove others, and construct new buildings.

As part of the cultural resources study for the Project, I am writing to request your input on potential Native American resources in or near the Area of Potential Effect (APE). In a letter dated October 18, 2916, the Native American Heritage Commission stated: "A record search of the Native American Heritage Commission (NAHC) *Sacred Lands File* (SLF) was completed for the area of potential project effect (APE) for the above referenced project. Sites have been located within the Venice Quadrangle of the APE you provided that may be impacted by the project." They recommended that local Native American individuals and organizations be contacted for further information, including the Gabrielino / Tongva Nation.

Project Descriptions:

A survey of the Venice High School campus found existing structures are outdated, requiring rehabilitation or modernization to meet current needs. The campus was built between 1913 and 1914, and rebuilt following the 1933 Long Beach earthquake. Most of the current buildings were built between 1933 and 1959, although alterations and additions continued through 1980. The project would address the deficiencies identified in the campus-wide survey through demolition of structures that are beyond repair; construction of new buildings; and upgrades to infrastructure, including sanitary sewers, water lines, flood control, landscape and electrical utilities. Facilities to be removed include the following: a gymnasium building, a practice gymnasium building, three

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industrial arts classroom buildings, approximately 14 classrooms located in relocatable buildings, and a utility building. The following structures would be built: 30 classrooms (general and specialty); gymnasium (practice and competitive facilities); new bleachers in the football stadium; new bleachers and a backstop for the baseball field, and various site-wide upgrades to remove identified and prioritized barriers to program accessibility per the Americans with Disabilities Act.

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UltraSystems

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If you require additional information or have any questions, please contact me.

Thank you for your help.

Respectfully yours,

Stephen O'Neil, M.A., RPA
Cultural Resources Manger
soneil@ultrasystems.com
(949) 788-4900, ext. 276

3

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October 19, 2016

Mr. Anthony Morales, Chairperson
Gabrieleno/Tongva San Gabriel Band of Mission Indians
P.O. Box 693
San Gabriel, California 91778

Subject: Historic Resources Study, Three Los Angeles Unified School District High Schools Upgrades in the City of Los Angeles, Los Angeles County, California. UltraSystems Environmental Projects No. 6011, 6012 and 6013.

Dear Chairperson Morales,

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industrial arts classroom buildings, approximately 14 classrooms located in relocatable buildings, and a utility building. The following structures would be built: 30 classrooms (general and specialty); gymnasium (practice and competitive facilities); new bleachers in the football stadium; new bleachers and a backstop for the baseball field, and various site-wide upgrades to remove identified and prioritized barriers to program accessibility per the Americans with Disabilities Act.

The North Hollywood High School Comprehensive Modernization Project would include demolition of structures that are beyond repair, construction of new buildings, upgrades to infrastructure, and seismic retrofits for building stabilization and safety. The main permanent buildings on the campus were built as early as 1927 and include the main administration building, classroom, library, cafeteria, gymnasium and shop and mechanic buildings. A campus expansion occurred in the mid-1950s with another expansion taking place again in the late 1990s. The Project would include demolition of the following facilities: boys' and girls' physical education buildings, classroom building, wood shop building, shop building, auto shop building, musical instrument classroom, student store and concession buildings, and approximately 29 classrooms in relocatable and modular buildings. The following structures would be built: approximately 62 classrooms (general, science, and specialty), and Gymnasium.

The Grant High School Comprehensive Modernization Project would include demolition of structures that are beyond repair, construction of new buildings, seismic retrofit, and upgrades to infrastructure, including sanitary sewers, water lines, and electrical utilities. The core campus is composed of one- and two-story permanent buildings dating to 1958 and 1959. Clusters of one-story portable buildings dating from 1935 to 1991 are located in the northwest and southeast corners of the campus. Facilities to be removed include the following: administration building, library building, maintenance and operations (M&O) building, arts building, two industrial arts classroom buildings, agricultural/horticultural classroom building and auxiliary structures, and approximately 27 classrooms located in relocatable buildings. The following structures would be built: approximately 40 general, science and specialty classrooms and support spaces, administration building, library building, M&O building, and gymnasium.

Project Locations:

Venice High School is located on a 28.8-acre site at 13000 Venice Boulevard in the city of Los Angeles, California. Access to the campus is provided by Venice Boulevard, which intersects Interstate 405; the campus is bordered by Lyceum Avenue to the east, Zanja Street to the south, and Walgrove Avenue to the west. The project is specifically located on the *Venice, Calif.*, USGS 7.5' topographic quadrangle, Range 15 W, Township 2 S, on unsectioned lands within the Rancho Ballona, within the community of Venice in the City of Los Angeles, Los Angeles County. This is shown on the attached map and the Project area is depicted with a one-half mile buffer zone.

North Hollywood High School is located in the Studio City neighborhood within the city of Los Angeles on a 25.1-acre site at 5231 Colfax Avenue. The school is bound by Chandler Boulevard to the north, Colfax Avenue to the east, and Magnolia Boulevard to the south. The project is specifically located on the *Van Nuys, Calif.*, USGS 7.5' topographic quadrangle, Range 14 W, Township 1 N, on unsectioned lands within the Rancho Ex-Mission San Fernando in the City of Los Angeles, Los Angeles County.

UltraSystems

Grant High School is located on a 32.4-acre site at 13000 Oxnard Street in the City of Los Angeles. Access to the campus is provided by Oxnard Street, which intersects California State Route 170 (Hollywood Freeway); the campus is bordered by Lancer Lane to the east, Hatteras Street to the south, and Ethel Avenue to the west. The project is specifically located on the *Van Nuys, Calif.*, USGS 7.5' topographic quadrangle, Range 15 W, Township 1 N, within unsectioned lands of the Rancho Ex-Mission San Fernando within the community of Valley Glen, City of Los Angeles, Los Angeles County. This is shown on the attached map and the Project area is depicted with a one-half mile buffer zone.

If you require additional information or have any questions, please contact me.

Thank you for your help.

Respectfully yours,

Stephen O'Neil, M.A., RPA
Cultural Resources Manger
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October 19, 2016

Mr. Andrew Salas, Chairperson
Gabrieleno-Band of Mission Indians – Kizh Nation
P.O. Box 393
Covina, California 91723

Subject: Historic Resources Study, Three Los Angeles Unified School District High Schools Upgrades in the City of Los Angeles, Los Angeles County, California. UltraSystems Environmental Projects No. 6011, 6012 and 6013.

Dear Chairperson Salas,

UltraSystems Environmental, Inc. (UEI) has been contracted by the Los Angeles Unified School District, to conduct a cultural resources inventory in support of their project to conduct a facilities upgrade at three high schools. As part of the Los Angeles Unified School District's (LAUSD's or District's) School Upgrade Program, the District plans to implement a comprehensive modernization project at Venice, North Hollywood and Grant High Schools in Los Angeles and North Hollywood, California. A survey of the campuses found existing structures, mechanical systems, and athletic facilities are outdated, requiring rehabilitation or modernization to meet current needs. The project will demolish various old structures, remove others, and construct new buildings.

As part of the cultural resources study for the Project, I am writing to request your input on potential Native American resources in or near the Area of Potential Effect (APE). In a letter dated October 18, 2916, the Native American Heritage Commission stated: "A record search of the Native American Heritage Commission (NAHC) *Sacred Lands File* (SLF) was completed for the area of potential project effect (APE) for the above referenced project. Sites have been located within the Venice Quadrangle of the APE you provided that may be impacted by the project." They recommended that local Native American individuals and organizations be contacted for further information, including the Gabrieleno Band of Mission Indians – Kizh Nation.

Project Descriptions:

A survey of the Venice High School campus found existing structures are outdated, requiring rehabilitation or modernization to meet current needs. The campus was built between 1913 and 1914, and rebuilt following the 1933 Long Beach earthquake. Most of the current buildings were built between 1933 and 1959, although alterations and additions continued through 1980. The project would address the deficiencies identified in the campus-wide survey through demolition of structures that are beyond repair; construction of new buildings; and upgrades to infrastructure, including sanitary sewers, water lines, flood control, landscape and electrical utilities. Facilities to be removed include the following: a gymnasium building, a practice gymnasium building, three

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The North Hollywood High School Comprehensive Modernization Project would include demolition of structures that are beyond repair, construction of new buildings, upgrades to infrastructure, and seismic retrofits for building stabilization and safety. The main permanent buildings on the campus were built as early as 1927 and include the main administration building, classroom, library, cafeteria, gymnasium and shop and mechanic buildings. A campus expansion occurred in the mid-1950s with another expansion taking place again in the late 1990s. The Project would include demolition of the following facilities: boys' and girls' physical education buildings, classroom building, wood shop building, shop building, auto shop building, musical instrument classroom, student store and concession buildings, and approximately 29 classrooms in relocatable and modular buildings. The following structures would be built: approximately 62 classrooms (general, science, and specialty), and Gymnasium.

The Grant High School Comprehensive Modernization Project would include demolition of structures that are beyond repair, construction of new buildings, seismic retrofit, and upgrades to infrastructure, including sanitary sewers, water lines, and electrical utilities. The core campus is composed of one- and two-story permanent buildings dating to 1958 and 1959. Clusters of one-story portable buildings dating from 1935 to 1991 are located in the northwest and southeast corners of the campus. Facilities to be removed include the following: administration building, library building, maintenance and operations (M&O) building, arts building, two industrial arts classroom buildings, agricultural/horticultural classroom building and auxiliary structures, and approximately 27 classrooms located in relocatable buildings. The following structures would be built: approximately 40 general, science and specialty classrooms and support spaces, administration building, library building, M&O building, and gymnasium.

Project Locations:

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UltraSystems

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If you require additional information or have any questions, please contact me.

Thank you for your help.

Respectfully yours,

Stephen O'Neil, M.A., RPA
Cultural Resources Manger
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3

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October 19, 2016

Mr. John Valenzuela, Chairperson
San Fernando Band of Mission Indians
P.O. Box 221838
Newhall, California 91322

Subject: Historic Resources Study, Three Los Angeles Unified School District High Schools Upgrades in the City of Los Angeles, Los Angeles County, California. UltraSystems Environmental Projects No. 6011, 6012 and 6013.

Dear Chairperson Valenzuela,

UltraSystems Environmental, Inc. (UEI) has been contracted by the Los Angeles Unified School District, to conduct a cultural resources inventory in support of their project to conduct a facilities upgrade at three high schools. As part of the Los Angeles Unified School District's (LAUSD's or District's) School Upgrade Program, the District plans to implement a comprehensive modernization project at Venice, North Hollywood and Grant High Schools in Los Angeles and North Hollywood, California. A survey of the campuses found existing structures, mechanical systems, and athletic facilities are outdated, requiring rehabilitation or modernization to meet current needs. The project will demolish various old structures, remove others, and construct new buildings.

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Project Descriptions:

A survey of the Venice High School campus found existing structures are outdated, requiring rehabilitation or modernization to meet current needs. The campus was built between 1913 and 1914, and rebuilt following the 1933 Long Beach earthquake. Most of the current buildings were built between 1933 and 1959, although alterations and additions continued through 1980. The project would address the deficiencies identified in the campus-wide survey through demolition of structures that are beyond repair; construction of new buildings; and upgrades to infrastructure, including sanitary sewers, water lines, flood control, landscape and electrical utilities. Facilities to be removed include the following: a gymnasium building, a practice gymnasium building, three

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The North Hollywood High School Comprehensive Modernization Project would include demolition of structures that are beyond repair, construction of new buildings, upgrades to infrastructure, and seismic retrofits for building stabilization and safety. The main permanent buildings on the campus were built as early as 1927 and include the main administration building, classroom, library, cafeteria, gymnasium and shop and mechanic buildings. A campus expansion occurred in the mid-1950s with another expansion taking place again in the late 1990s. The Project would include demolition of the following facilities: boys' and girls' physical education buildings, classroom building, wood shop building, shop building, auto shop building, musical instrument classroom, student store and concession buildings, and approximately 29 classrooms in relocatable and modular buildings. The following structures would be built: approximately 62 classrooms (general, science, and specialty), and Gymnasium.

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Project Locations:

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UltraSystems

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If you require additional information or have any questions, please contact me.

Thank you for your help.

Respectfully yours,

Stephen O'Neil, M.A., RPA
Cultural Resources Manger
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October 19, 2016

Ms Linda Candelaria, Co-Chairperson
Gabrielino-Tongva Tribe
1999 Avenue of the Stars, Suite 1100
Los Angeles, California 90067

Subject: Historic Resources Study, Three Los Angeles Unified School District High Schools Upgrades in the City of Los Angeles, Los Angeles County, California. UltraSystems Environmental Projects No. 6011, 6012 and 6013.

Dear Co-Chairperson Candelaria,

UltraSystems Environmental, Inc. (UEI) has been contracted by the Los Angeles Unified School District, to conduct a cultural resources inventory in support of their project to conduct a facilities upgrade at three high schools. As part of the Los Angeles Unified School District's (LAUSD's or District's) School Upgrade Program, the District plans to implement a comprehensive modernization project at Venice, North Hollywood and Grant High Schools in Los Angeles and North Hollywood, California. A survey of the campuses found existing structures, mechanical systems, and athletic facilities are outdated, requiring rehabilitation or modernization to meet current needs. The project will demolish various old structures, remove others, and construct new buildings.

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Project Descriptions:

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The Grant High School Comprehensive Modernization Project would include demolition of structures that are beyond repair, construction of new buildings, seismic retrofit, and upgrades to infrastructure, including sanitary sewers, water lines, and electrical utilities. The core campus is composed of one- and two-story permanent buildings dating to 1958 and 1959. Clusters of one-story portable buildings dating from 1935 to 1991 are located in the northwest and southeast corners of the campus. Facilities to be removed include the following: administration building, library building, maintenance and operations (M&O) building, arts building, two industrial arts classroom buildings, agricultural/horticultural classroom building and auxiliary structures, and approximately 27 classrooms located in relocatable buildings. The following structures would be built: approximately 40 general, science and specialty classrooms and support spaces, administration building, library building, M&O building, and gymnasium.

Project Locations:

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UltraSystems

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Thank you for your help.

Respectfully yours,

Stephen O'Neil, M.A., RPA
Cultural Resources Manger
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(949) 788-4900, ext. 276

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October 19, 2016

Mr. Robert F. Dorame, Chairperson
Gabrielino Tongva Indians of California Tribal Council
P.O. Box 490
Bellflower, California 90707

Subject: Historic Resources Study, Three Los Angeles Unified School District High Schools Upgrades in the City of Los Angeles, Los Angeles County, California. UltraSystems Environmental Projects No. 6011, 6012 and 6013.

Dear Chairperson Dorame,

UltraSystems Environmental, Inc. (UEI) has been contracted by the Los Angeles Unified School District, to conduct a cultural resources inventory in support of their project to conduct a facilities upgrade at three high schools. As part of the Los Angeles Unified School District's (LAUSD's or District's) School Upgrade Program, the District plans to implement a comprehensive modernization project at Venice, North Hollywood and Grant High Schools in Los Angeles and North Hollywood, California. A survey of the campuses found existing structures, mechanical systems, and athletic facilities are outdated, requiring rehabilitation or modernization to meet current needs. The project will demolish various old structures, remove others, and construct new buildings.

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Project Descriptions:

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If you require additional information or have any questions, please contact me.

Thank you for your help.

Respectfully yours,

Stephen O'Neil, M.A., RPA
Cultural Resources Manger
soneil@ultrasystems.com
(949) 788-4900, ext. 276

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October 19, 2016

Mr. John Tommy Rosas, Tribal Administrator
Tongva Ancestral Territorial Tribal Nation
(private address

Subject: Historic Resources Study, Three Los Angeles Unified School District High Schools Upgrades in the City of Los Angeles, Los Angeles County, California. UltraSystems Environmental Projects No. 6011, 6012 and 6013.

Dear Mr. Rosas,

UltraSystems Environmental, Inc. (UEI) has been contracted by the Los Angeles Unified School District, to conduct a cultural resources inventory in support of their project to conduct a facilities upgrade at three high schools. As part of the Los Angeles Unified School District's (LAUSD's or District's) School Upgrade Program, the District plans to implement a comprehensive modernization project at Venice, North Hollywood and Grant High Schools in Los Angeles and North Hollywood, California. A survey of the campuses found existing structures, mechanical systems, and athletic facilities are outdated, requiring rehabilitation or modernization to meet current needs. The project will demolish various old structures, remove others, and construct new buildings.

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Project Descriptions:

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Website: www.ultrasystems.com

be removed include the following: a gymnasium building, a practice gymnasium building, three industrial arts classroom buildings, approximately 14 classrooms located in relocatable buildings, and a utility building. The following structures would be built: 30 classrooms (general and specialty); gymnasium (practice and competitive facilities); new bleachers in the football stadium; new bleachers and a backstop for the baseball field, and various site-wide upgrades to remove identified and prioritized barriers to program accessibility per the Americans with Disabilities Act.

The North Hollywood High School Comprehensive Modernization Project would include demolition of structures that are beyond repair, construction of new buildings, upgrades to infrastructure, and seismic retrofits for building stabilization and safety. The main permanent buildings on the campus were built as early as 1927 and include the main administration building, classroom, library, cafeteria, gymnasium and shop and mechanic buildings. A campus expansion occurred in the mid-1950s with another expansion taking place again in the late 1990s. The Project would include demolition of the following facilities: boys' and girls' physical education buildings, classroom building, wood shop building, shop building, auto shop building, musical instrument classroom, student store and concession buildings, and approximately 29 classrooms in relocatable and modular buildings. The following structures would be built: approximately 62 classrooms (general, science, and specialty), and Gymnasium.

The Grant High School Comprehensive Modernization Project would include demolition of structures that are beyond repair, construction of new buildings, seismic retrofit, and upgrades to infrastructure, including sanitary sewers, water lines, and electrical utilities. The core campus is composed of one- and two-story permanent buildings dating to 1958 and 1959. Clusters of one-story portable buildings dating from 1935 to 1991 are located in the northwest and southeast corners of the campus. Facilities to be removed include the following: administration building, library building, maintenance and operations (M&O) building, arts building, two industrial arts classroom buildings, agricultural/horticultural classroom building and auxiliary structures, and approximately 27 classrooms located in relocatable buildings. The following structures would be built: approximately 40 general, science and specialty classrooms and support spaces, administration building, library building, M&O building, and gymnasium.

Project Locations:

Venice High School is located on a 28.8-acre site at 13000 Venice Boulevard in the city of Los Angeles, California. Access to the campus is provided by Venice Boulevard, which intersects Interstate 405; the campus is bordered by Lyceum Avenue to the east, Zanja Street to the south, and Walgrove Avenue to the west. The project is specifically located on the *Venice, Calif.*, USGS 7.5' topographic quadrangle, Range 15 W, Township 2 S, on unsectioned lands within the Rancho Ballona, within the community of Venice in the City of Los Angeles, Los Angeles County. This is shown on the attached map and the Project area is depicted with a one-half mile buffer zone.

North Hollywood High School is located in the Studio City neighborhood within the city of Los Angeles on a 25.1-acre site at 5231 Colfax Avenue. The school is bound by Chandler Boulevard to the north, Colfax Avenue to the east, and Magnolia Boulevard to the south. The project is specifically located on the *Van Nuys, Calif.*, USGS 7.5' topographic quadrangle, Range 14 W, Township 1 N, on unsectioned lands within the Rancho Ex-Mission San Fernando in the City of Los Angeles, Los Angeles County.

UltraSystems

Grant High School is located on a 32.4-acre site at 13000 Oxnard Street in the City of Los Angeles. Access to the campus is provided by Oxnard Street, which intersects California State Route 170 (Hollywood Freeway); the campus is bordered by Lancer Lane to the east, Hatteras Street to the south, and Ethel Avenue to the west. The project is specifically located on the *Van Nuys, Calif.*, USGS 7.5' topographic quadrangle, Range 15 W, Township 1 N, within unsectioned lands of the Rancho Ex-Mission San Fernando within the community of Valley Glen, City of Los Angeles, Los Angeles County. This is shown on the attached map and the Project area is depicted with a one-half mile buffer zone.

If you require additional information or have any questions, please contact me.

Thank you for your help.

Respectfully yours,

Stephen O'Neil, M.A., RPA
Cultural Resources Manger
soneil@ultrasystems.com
(949) 788-4900, ext. 276

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UltraSystems
environmental•management•planning

December 6, 2016

Mr. Sam Dunlap, Cultural Resources Director
Gabrielino / Tongva Nation
P.O. Box 86908
Los Angeles, California 90089

Subject: Historic Resources Study, Three Los Angeles Unified School District High Schools Upgrades in the City of Los Angeles, Los Angeles County, California. UltraSystems Environmental Projects No. 6011, 6012 and 6013.

Dear Mr. Dunlap,

At the request of Ms Goad who identified you as the Gabrielino / Tongva Nation's Cultural Resource Director, I am sending you this letter. (You were not identified as a contact by the NAHC with Ms Goad for the Nation.)

UltraSystems Environmental, Inc. (UEI) has been contracted by the Los Angeles Unified School District, to conduct a cultural resources inventory in support of their project to conduct a facilities upgrade at three high schools. As part of the Los Angeles Unified School District's (LAUSD's or District's) School Upgrade Program, the District plans to implement a comprehensive modernization project at Venice, North Hollywood and Grant High Schools in Los Angeles and North Hollywood, California. A survey of the campuses found existing structures, mechanical systems, and athletic facilities are outdated, requiring rehabilitation or modernization to meet current needs. The project will demolish various old structures, remove others, and construct new buildings.

As part of the cultural resources study for the Project, I am writing to request your input on potential Native American resources in or near the Area of Potential Effect (APE). In a letter dated October 18, 2916, the Native American Heritage Commission stated: "A record search of the Native American Heritage Commission (NAHC) *Sacred Lands File* (SLF) was completed for the area of potential project effect (APE) for the above referenced project. Sites have been located within the Venice Quadrangle of the APE you provided that may be impacted by the project." They recommended that local Native American individuals and organizations be contacted for further information, including the Gabrielino / Tongva Nation.

Project Descriptions:

A survey of the Venice High School campus found existing structures are outdated, requiring rehabilitation or modernization to meet current needs. The campus was built between 1913 and 1914, and rebuilt following the 1933 Long Beach earthquake. Most of the current buildings were built between 1933 and 1959, although alterations and additions continued through 1980. The

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project would address the deficiencies identified in the campus-wide survey through demolition of structures that are beyond repair; construction of new buildings; and upgrades to infrastructure, including sanitary sewers, water lines, flood control, landscape and electrical utilities. Facilities to be removed include the following: a gymnasium building, a practice gymnasium building, three industrial arts classroom buildings, approximately 14 classrooms located in relocatable buildings, and a utility building. The following structures would be built: 30 classrooms (general and specialty); gymnasium (practice and competitive facilities); new bleachers in the football stadium; new bleachers and a backstop for the baseball field, and various site-wide upgrades to remove identified and prioritized barriers to program accessibility per the Americans with Disabilities Act.

The North Hollywood High School Comprehensive Modernization Project would include demolition of structures that are beyond repair, construction of new buildings, upgrades to infrastructure, and seismic retrofits for building stabilization and safety. The main permanent buildings on the campus were built as early as 1927 and include the main administration building, classroom, library, cafeteria, gymnasium and shop and mechanic buildings. A campus expansion occurred in the mid-1950s with another expansion taking place again in the late 1990s. The Project would include demolition of the following facilities: boys' and girls' physical education buildings, classroom building, wood shop building, shop building, auto shop building, musical instrument classroom, student store and concession buildings, and approximately 29 classrooms in relocatable and modular buildings. The following structures would be built: approximately 62 classrooms (general, science, and specialty), and Gymnasium.

The Grant High School Comprehensive Modernization Project would include demolition of structures that are beyond repair, construction of new buildings, seismic retrofit, and upgrades to infrastructure, including sanitary sewers, water lines, and electrical utilities. The core campus is composed of one- and two-story permanent buildings dating to 1958 and 1959. Clusters of one-story portable buildings dating from 1935 to 1991 are located in the northwest and southeast corners of the campus. Facilities to be removed include the following: administration building, library building, maintenance and operations (M&O) building, arts building, two industrial arts classroom buildings, agricultural/horticultural classroom building and auxiliary structures, and approximately 27 classrooms located in relocatable buildings. The following structures would be built: approximately 40 general, science and specialty classrooms and support spaces, administration building, library building, M&O building, and gymnasium.

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North Hollywood High School is located in the Studio City neighborhood within the city of Los Angeles on a 25.1-acre site at 5231 Colfax Avenue. The school is bound by Chandler Boulevard to the north, Colfax Avenue to the east, and Magnolia Boulevard to the south. The project is

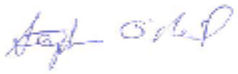
specifically located on the *Van Nuys, Calif.*, USGS 7.5' topographic quadrangle, Range 14 W, Township 1 N, on unsectioned lands within the Rancho Ex-Mission San Fernando in the City of Los Angeles, Los Angeles County.

Grant High School is located on a 32.4-acre site at 13000 Oxnard Street in the City of Los Angeles. Access to the campus is provided by Oxnard Street, which intersects California State Route 170 (Hollywood Freeway); the campus is bordered by Lancer Lane to the east, Hatteras Street to the south, and Ethel Avenue to the west. The project is specifically located on the *Van Nuys, Calif.*, USGS 7.5' topographic quadrangle, Range 15 W, Township 1 N, within unsectioned lands of the Rancho Ex-Mission San Fernando within the community of Valley Glen, City of Los Angeles, Los Angeles County. This is shown on the attached map and the Project area is depicted with a one-half mile buffer zone.

If you require additional information or have any questions, please contact me.

Thank you for your help.

Respectfully yours,



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GABRIELENO BAND OF MISSION INDIANS - KIZH NATION
Historically known as The San Gabriel Band of Mission Indians
Recognized by the State of California as the aboriginal tribe of the Los Angeles basin

Dear Stephen ,

Subject: LAUSD Three High schools Upgrade Projects # 6011,6012, 6013

"The Three project locales lie in an area where the Ancestral & traditional territories of the Kizh(Kitc) Gabrieleño villages, adjoined and overlapped with each other, at least during the Late Prehistoric and Protohistoric Periods. The homeland of the Kizh (Kitc) Gabrieleños , probably the most influential Native American group in aboriginal southern California (Bean and Smith 1978a:538), was centered in the Los Angeles Basin, and reached as far east as the San Bernardino-Riverside area. The homeland of the Serranos was primarily the San Bernardino Mountains, including the slopes and lowlands on the north and south flanks. Whatever the linguistic affiliation, Native Americans in and around the project area exhibited similar organization and resource procurement strategies. Villages were based on clan or lineage groups. Their home/ base sites are marked by midden deposits, often with bedrock mortars. During their seasonal rounds to exploit plant resources, small groups would migrate within their traditional territory in search of specific plants and animals. Their gathering strategies often left behind signs of special use sites, usually grinding slicks on bedrock boulders, at the locations of the resources. Therefore in order to protect our resources we're requesting one of our ***experienced & certified Native American monitors as well as a Archeo- Monitor*** *to be on site during any & all ground disturbances (this includes but is not limited to pavement removal, pot-holing or auguring, boring, grading, excavation and trenching).*

In all cases, when the NAHC states there are "No" records of sacred sites" in the subject area; they always refer the contractors back to the Native American Tribes whose tribal territory the project area is in. This is due to the fact, that the NAHC is only aware of general information on each California NA Tribe they are "NOT " the "experts" on our Tribe. Our Elder Committee & Tribal Historians are the experts and is the reason why the NAHC will always refer contractors to the local tribes.

In addition, we are also often told that an area has been previously developed or disturbed and thus there are no concerns for cultural resources and thus minimal impacts would be expected. I have two major recent examples of how similar statements on other projects were proven very inadequate. An archaeological study claimed there would be no impacts to an area adjacent to the Plaza Church at Olvera Street, the original Spanish settlement of Los Angeles, now in downtown Los Angeles. In fact, this site was the Gabrieleno village of Yangna long before it became what it is now today. The new development wrongfully began their construction and they, in the process, dug up and desecrated 118 burials. The area that was dismissed as culturally sensitive was in fact the First Cemetery of Los Angeles where it had been well documented at the Huntington Library that 400 of our Tribe's ancestors were buried there along with the founding families of Los Angeles (Pico's, Sepulveda's, and Alvarado's to name a few). In addition, there was another inappropriate study for the development of a new sports complex at Fedde Middle School in the City of Hawaiian Gardens could commence. Again, a village and burial site were desecrated despite their mitigation measures. Thankfully, we were able to work alongside the school district to quickly and respectfully mitigate a mutually beneficial resolution.

Given all the above, the proper thing to do for your project would be for our Tribe to monitor ground disturbing construction work. Native American monitors and/or consultant can see that cultural resources are treated appropriately from the Native American point of view. Because we are the lineal descendants of the vast area of Los Angeles and Orange Counties, we hold sacred the ability to protect what little of our culture remains. We thank you for taking seriously your role and responsibility in assisting us in preserving our culture.

With respect,

Please contact our office regarding this project to coordinate a Native American Monitor to be present. Thank You



Andrew Salas, Chairman

Andrew Salas, Chairman | Nadine Salas, Vice-Chairman | Christina Swindall Martinez, secretary
Albert Perez, treasurer I | Martha Gonzalez Lemos, treasurer II | Richard Gradias, Chairman of the council of Elders

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Los Angeles Unified School District – North Hollywood High School Upgrade Project
Native American Contact Log

Name	Tribe/Affiliation	Letter and Fax Contacts	E-mail Contacts	Telephone Contacts	Comments[1]
Katy Sanchez, Asst. Government Program Analyst	Native American Heritage Commission	October 17, 2016 (Fax)	October 17, 2016	N/A	Request for Sacred Lands File search and local Native American representatives contact information. Reply received October 18, 2016 from Gayle Totton.
Linda Candelaria, Co-Chairperson	Gabrielino-Tongva Tribe	October 19, 2016 (letter, no fax available)	(no email available)	Telephone call made November 14, 2016.	Letter describing project and requesting input on concerns, October 19. No fax number or email address available. Did not answer telephone call on 11/14; left a message. No response to date (September 28, 2017).
Sandonne Goad, Chairperson	Gabrieleno / Tongva Nation	October 19, 2016 (letter, no fax available)	October 19, 2016 (email)	Telephone call made November 14, 2016.	Letter and email describing project and requesting input on concerns on 10/19. No fax number available. On a telephone call on 11/14 Goad stated that Sam Dunlap is the Nation's cultural resources contact and we should send the email to him.
Anthony Morales, Chairperson	Gabrielino/Tongva San Gabriel Band of Mission Indians	October 19, 2016 (letter, & fax)	October 19, 2016 (email)	Telephone call made November 14, 2016.	Letter, fax and email describing project and requesting input on concerns on 10/19. Did not answer telephone call on 11/14; left a message. Morales called back the same day asking us to call him again. Telephoned Morales on 11/15 and left message. No response to date (September 28, 2017).

[1] All correspondence dates provided in this column represent the year 2016.

Name	Tribe/Affiliation	Letter and Fax Contacts	E-mail Contacts	Telephone Contacts	Comments[1]
Robert F. Dorame, Chairperson	Gabrielino Tongva Indians of California Tribal Council	October 19, 2016 (letter; incorrect fax number)	October 19, 2016 (email)	Telephone call made November 14, 2016.	Letter and email describing project and requesting input on concerns on 10/19. Fax number provided was incorrect – voice phone only. During telephone call on 11/14 Dorame stated that his family attended nearby Grant High School. That the Council comments only when specific resource are known and generally believes in monitoring; that they will look for material on the project area but if they do not respond within a week then they have no further comments. No further response as of September 28, 2017.
Andrew Salas, Chairperson	Gabrielino Band of Mission Indians	October 19, 2016 (letter, no fax available)	October 19, 2016 (email)	N/A	Letter and email describing project and requesting input on concerns, October 19. No fax number available. Replied by email 10/29 with attached letter; letter stated no specific concerns for this project; it noted three recent projects in Los Angeles City and County where Native American concerns had not been met and the letter therefore requested that tribal monitoring be conducted.
John Valenzuela, Chairperson	San Fernando Band of Mission Indians	October 19, 2016 (letter, no fax available)	October 1, 2016 (email)	Telephone call made November 14, 2016.	Letter and email describing Project and requesting input on concerns 10/19. No fax number available. Did not answer telephone call on 11/14; left a message. No response to date (September 28, 2017).

Name	Tribe/Affiliation	Letter and Fax Contacts	E-mail Contacts	Telephone Contacts	Comments[1]
Sam Dunlap	Gabrieleno / Tongva Nation	December 6, 2016 (letter, no fax available)	December 6, 2016 (email)	Telephone call December 7, 2016	Goad on 11/14 said to email Dunlap, that he is the Nation's cultural resources contact. Letter and email describing project and requesting input on concerns sent to Dunlap on 12/6. He responded by email same day requesting a call. Telephone call made on 12/7, left message. No response to date (September 28, 2017).

ATTACHMENT D

CHRIS Records Search Bibliography

Report List

North Hollywood High School Project #6013

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
LA-03739		1986	Anonymous	Phase 1 Archaeological Survey/Class III Inventory, San Fernando Valley East-west Transportation Corridor Study Area, Los Angeles, California	W & S Consultants	
LA-01022		1998	McLean, Deborah K.	Archaeological Assessment for Pacific Bell Mobile Services Telecommunications Facility LA864-01, 11365 Magnolia Boulevard, North Hollywood, City and County of Los Angeles, California	LSA Associates, Inc.	
LA-01850		2001	Wolock, Nicole	Cultural Resources Assessment: Cingular Wireless Facility No. LA833-01, Los Angeles County, California	LSA Associates, Inc.	
LA-04816		2010	Smith, Pharlene C.	New Color Hard Existing Pavement on Various On/off-ramps on Route 170 and One on Ramp Route 5 With Rubberized Asphalt Concrete	Caltrans District 7	
LA-07819		1997	Slicker, Gary E.	A Cultural Resources Monitoring Report for the La Cellular Installation of a Monopole and Aberdeen Facilities at Cell Site #3701 Located at 1674 Burbank Blvd. in North Hollywood, California	Environmental Research Archaeologists	
LA-07835		2000	Whitley, David S. and Joseph M. Simon	Phase I Archaeological Survey/Class I Inventory, San Fernando Valley East-west Transit Corridor, Bn Alternative, Study Area, Los Angeles, California	W & S Consultants	
LA-07930		2006	Bonner, Wayne H. and James M. Keasling	Cultural Resource Records Search and Site Visit Results for Global Signal Telecommunications Facility Candidate 30134081 (Hollywood Park), 11676 Burbank Boulevard, North Hollywood, Los Angeles County, California	Michael Brandman Associates	19-186685
LA-10748		1987	Hathaway, Roger G.	Determination of Eligibility Report: North Hollywood Redevelopment Project	Roger G. Hathaway & Associates	19-170866, 19-170867, 19-173561, 19-190680
LA-11230		2011	Lancaster, Mark	Hollywood Park 878662, 11676 Burbank Blvd., No. Hollywood	Practical Environmental Solutions	
LA-12525		2012	Wallace, James, Dietler, Sara, and Kry, Linda	Draft Phase I Cultural Resources Assessment: San Fernando Valley West Bicycling Project, City of Los Angeles, California	AECOM	19-003826, 19-002201, 19-197303, 19-173868, 19-170867, 19-173561, 19-197201, 19-186685, 19-186842, 19-189950, 19-88175, 19-188464, 19-185848

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