

Appendix A

Air Quality Technical Report

Air Quality Technical Report

Cleveland Charter High School Comprehensive Modernization Project



Los Angeles Unified School District
Office of Environmental Health and Safety
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INTRODUCTION

The Los Angeles Unified School District (LAUSD) is proposing a comprehensive modernization project at Cleveland Charter High School (“Cleveland HS” or “Campus”), 8140 Vanalden Avenue, Reseda California. Comprehensive modernization projects are designed to address the critical physical needs of the buildings and grounds at the campus through building replacement, renovations, modernization, and reconfiguration. The proposed Cleveland HS project is required to undergo an environmental review pursuant to the California Environmental Quality Act (CEQA).

The purpose of this Technical Memorandum (TM) is to fulfill the requirements of CEQA. This TM includes a discussion of the project, its physical setting, and the regulatory framework with respect to air quality. The report also identifies the potential environmental impacts of the proposed project and recommends avoidance or minimization measures for potentially adverse environmental impacts.

This study will evaluate the potential air quality impacts generated from the scheduled construction activity for the proposed project. Vehicular traffic is typically the dominant operational source of air pollutants for these types of projects. However, the modernization project is not expected to increase the capacity of the high school; therefore, traffic volumes traveling to and from the school are expected to remain the same. With no estimated increase in operational traffic volumes, operational air quality impacts are not expected to be generated by the proposed project.

Construction activities necessary to modernize the high school would generate air pollutants that could affect the students and faculty in attendance and the land uses surrounding the school property. Air quality impacts would be considered significant if air pollutant emissions during construction or operation of the facilities exceeded significance thresholds or if ambient air pollutant concentrations were expected to exceed State of California or federal air quality standards.

PROJECT DESCRIPTION

Project Location

The proposed project is located at LAUSD’s Cleveland HS campus, at 8140 Vanalden Avenue, (APN 2104-004-905) in the *Reseda-West Van Nuys Community Plan Area* of the City of Los Angeles (Figure 1). A site plan is shown in Figure 2. The project site is approximately 25 miles northwest of downtown Los Angeles, in a suburban residential area, and approximately seven miles to the east of the Los Angeles County/Ventura County boundary. Cleveland HS is approximately 37 acres and takes up most of the block bordered on the north by Roscoe Boulevard, on the east by Wilbur Avenue and Aliso Canyon Wash, on the south by Strathern Street, and on the west by Vanalden Avenue.

The project area outside of the campus is comprised mostly of single-family residences located north, south, and west of the school parcel. An existing electrical transmission corridor and Aliso Canyon Wash are both located east of the campus.

Regional transportation facilities serving the project area include the San Diego Freeway (I-405) located approximately four miles east of the project site and accessed by Roscoe Boulevard; the Ronald Reagan Freeway (I-118) located four miles north of the school and accessed by Tampa Avenue; and the Ventura Freeway (I-101) located approximately three miles south of the project site and accessed by Reseda Boulevard or Tampa Avenue.

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CLEVELAND CHARTER HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

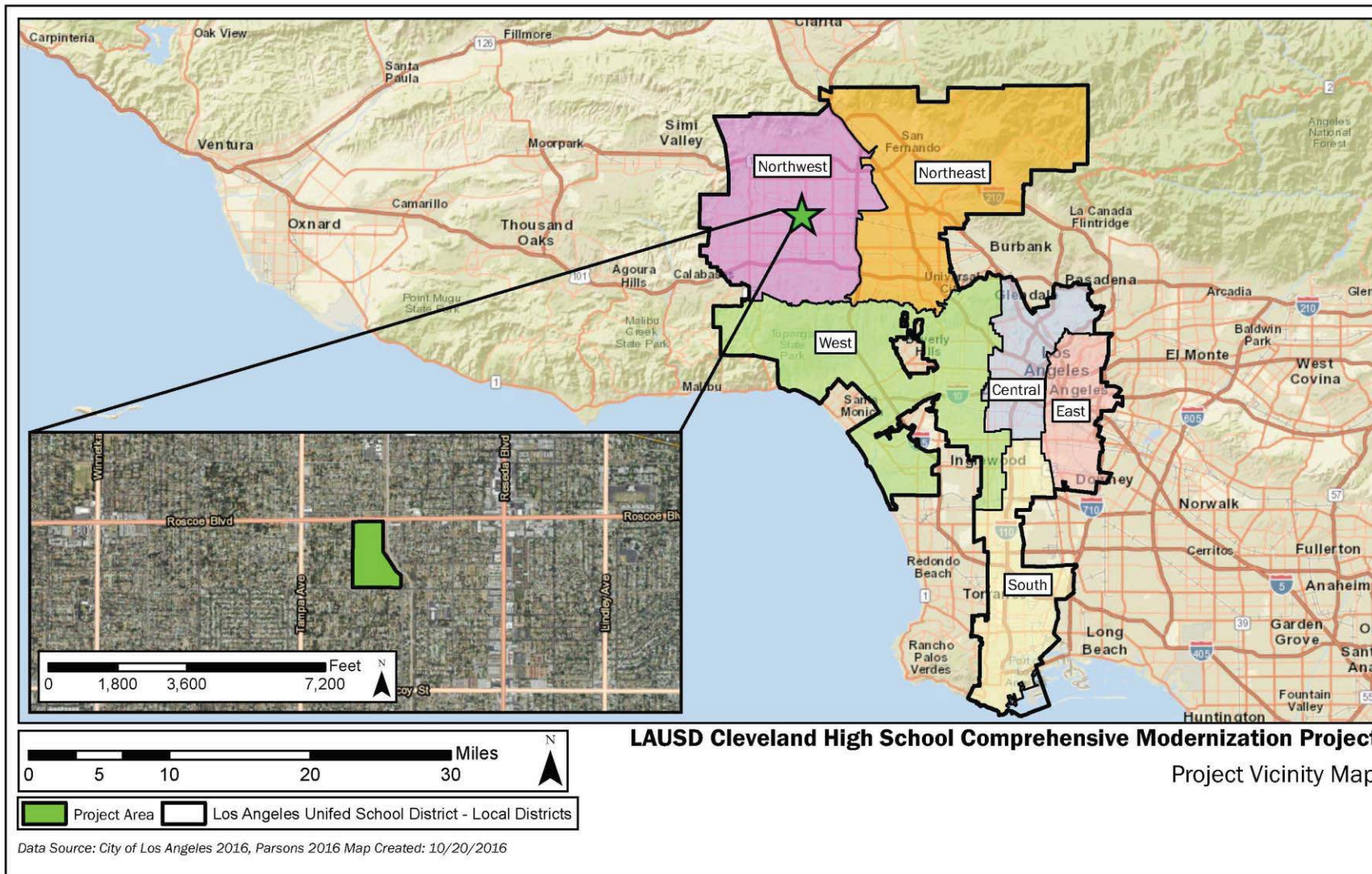
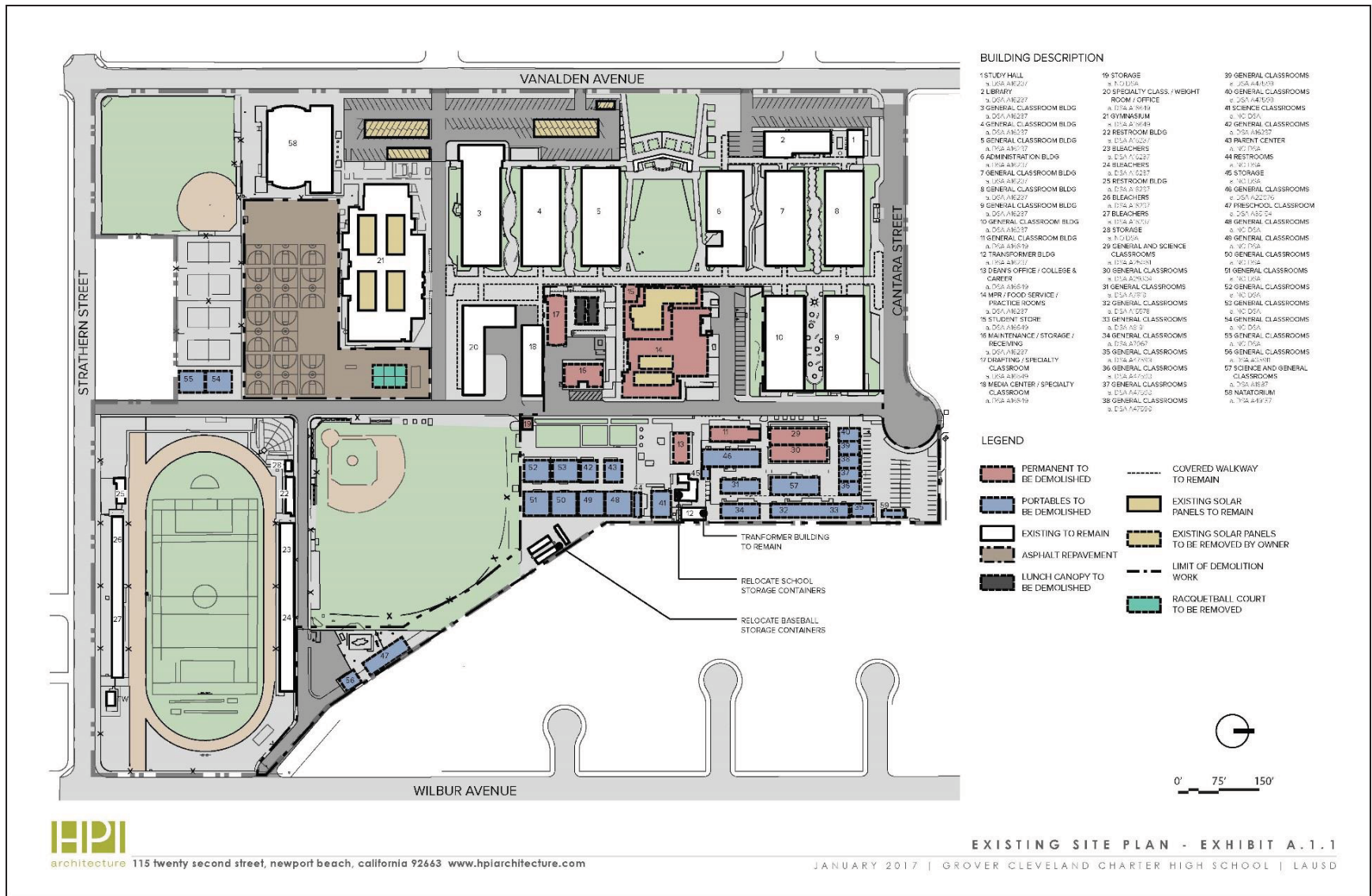


Figure 1 - Project Location Map

AIR QUALITY TECHNICAL REPORT

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BUILDING DESCRIPTION

1 STUDY HALL a. USA A1021	16 STORAGE a. USA A1024	30 GENERAL CLASSROOMS a. USA A4103
2 LIBRARY a. USA A1022	20 SPECIALTY CLASS / WEIGHT ROOM / OFFICE a. USA A1014	40 GENERAL CLASSROOMS a. USA A4103
3 GENERAL CLASSROOM BLDG a. USA A1023	21 GYMNASIUM a. USA A1025	41 SCIENCE CLASSROOMS a. USA A4104
4 GENERAL CLASSROOM BLDG a. USA A1023	22 RESTROOM BLDG a. USA A1026	42 GENERAL CLASSROOMS a. USA A4103
5 GENERAL CLASSROOM BLDG a. USA A1023	23 BLEACHERS a. USA A1027	43 PARENT CENTER a. USA A1028
6 ADMINISTRATION BLDG a. USA A1027	24 BLEACHERS a. USA A1027	44 RESTROOMS a. USA A1029
7 GENERAL CLASSROOM BLDG a. USA A1023	25 RESTROOM BLDG a. USA A1030	45 STORAGE a. USA A1031
8 GENERAL CLASSROOM BLDG a. USA A1023	26 BLEACHERS a. USA A1032	46 GENERAL CLASSROOMS a. USA A4103
9 GENERAL CLASSROOM BLDG a. USA A1023	27 BLEACHERS a. USA A1033	47 PRESCHOOL CLASSROOM a. USA A4105
10 GENERAL CLASSROOM BLDG a. USA A1033	28 STORAGE a. USA A1034	48 GENERAL CLASSROOMS a. USA A4103
11 GENERAL CLASSROOM BLDG a. USA A1034	29 GENERAL AND SCIENCE CLASSROOMS a. USA A1035	49 GENERAL CLASSROOMS a. USA A4103
12 TRANSFORMER BLDG a. USA A1036	30 GENERAL CLASSROOMS a. USA A1036	50 GENERAL CLASSROOMS a. USA A4103
13 DEN'S OFFICE / COLLEGE & CAREER a. USA A1037	31 GENERAL CLASSROOMS a. USA A1037	51 GENERAL CLASSROOMS a. USA A4103
14 MPR / FOOD SERVICE / PRACTICE ROOMS a. USA A1038	32 GENERAL CLASSROOMS a. USA A1038	52 GENERAL CLASSROOMS a. USA A4103
15 STUDENT STORE a. USA A1039	33 GENERAL CLASSROOMS a. USA A1039	53 GENERAL CLASSROOMS a. USA A4103
16 MAINTENANCE / STORAGE / RECEIVING a. USA A1040	34 GENERAL CLASSROOMS a. USA A1040	54 GENERAL CLASSROOMS a. USA A4103
17 STARTING / SPECIALTY CLASSROOM a. USA A1041	35 GENERAL CLASSROOMS a. USA A1041	55 GENERAL CLASSROOMS a. USA A4103
18 MEDIA CENTER / SPECIALTY CLASSROOM a. USA A1042	36 GENERAL CLASSROOMS a. USA A1042	56 GENERAL CLASSROOMS a. USA A4103
	37 GENERAL CLASSROOMS a. USA A1043	57 SCIENCE AND GENERAL CLASSROOMS a. USA A4106
	38 GENERAL CLASSROOMS a. USA A1044	58 NATATORIUM a. USA A4107

LEGEND

- PERMANENT TO BE DEMOLISHED
- PORTABLES TO BE DEMOLISHED
- EXISTING TO REMAIN
- ASPHALT REPAVEMENT
- LUNCH CANOPY TO BE DEMOLISHED
- COVERED WALKWAY TO REMAIN
- EXISTING SOLAR PANELS TO REMAIN
- EXISTING SOLAR PANELS TO BE REMOVED BY OWNER
- LIMIT OF DEMOLITION WORK
- RACQUETBALL COURT TO BE REMOVED

Figure 2 – Existing Site Plan

Existing School Conditions

Cleveland HS is located in a mainly residential neighborhood, with some commercial development along Roscoe Boulevard. The school campus includes permanent and portable buildings, athletic fields, and landscape and hardscape areas. Cantara Street, a private street within the school, runs east-west between the northern portion of the campus and the Miller Career and Transition Center. An access route is situated north-south from Cantara Street through the campus site to Strathern Street.

The school has a planned enrollment capacity of 3,942 students in 9th through 12th grade. The 2015-2016 enrollment was 3202, which was under the planned capacity by about 740 students. Two additional schools share the site with Cleveland HS: The Cleveland HS Early Education Center occupies a small separate area at the south end of the site and the Joaquin Miller Career and Transition Center occupies an area just north of the access road, along Roscoe Boulevard. The swimming pool, used jointly by the school and the community, occupies the southwest corner of the site. Cleveland HS has been determined to be eligible as a historic district under the National Register and California Register criteria.

Proposed Improvements

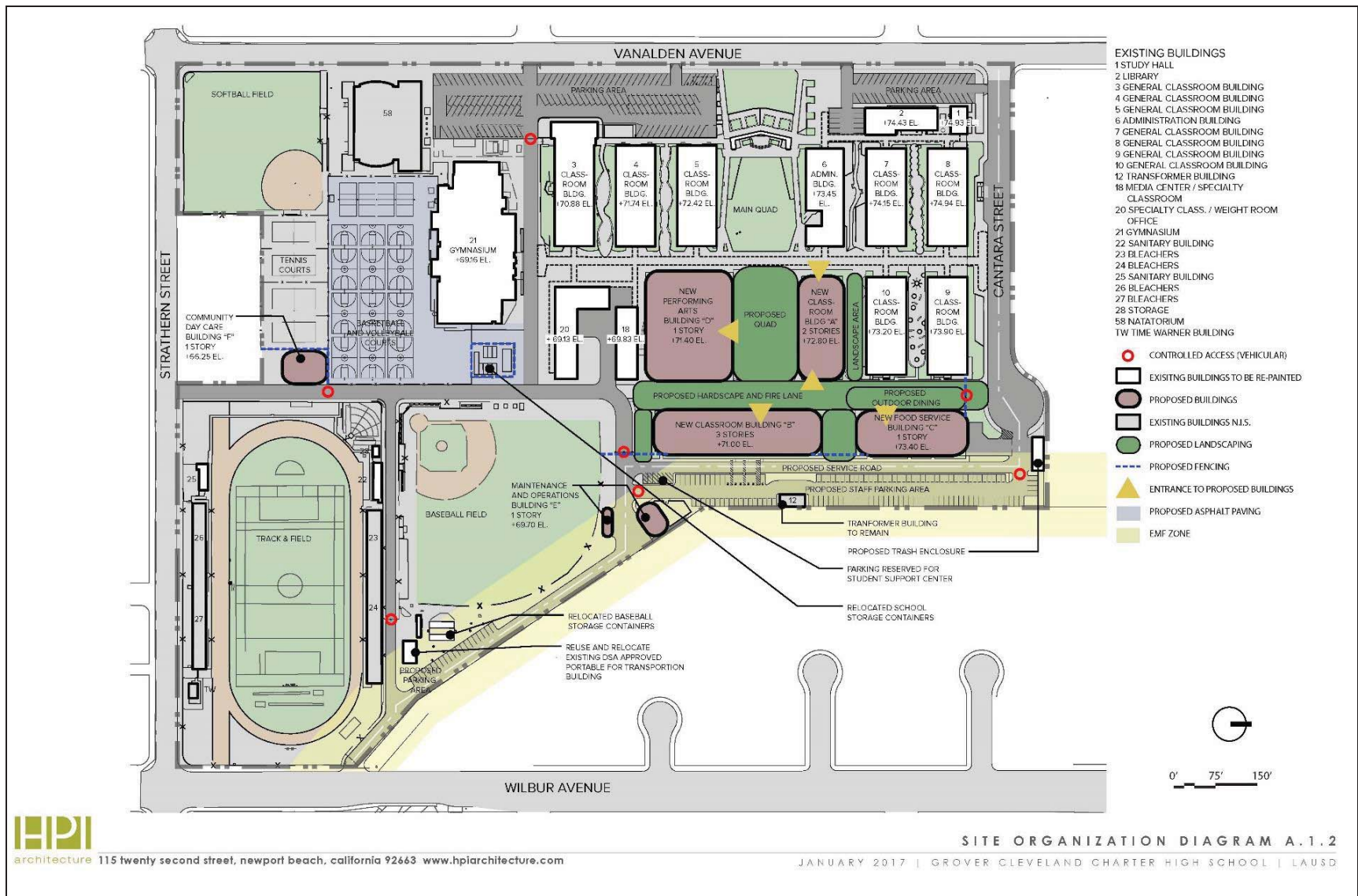
The proposed project includes demolition, repurposing, new construction, cosmetic upgrades and site improvements to the existing campus. The proposed project includes the removal of nine permanent and 28 portable buildings, the replacement of deteriorated utility lines, and the relocation of existing storage units and hardscape. The existing buildings designated for demolition do not meet the requirements of the school or the minimum LAUSD standards. Currently there are inadequate or nonexistent performing arts spaces which includes: theater, dance, choral and music. Similarly, the existing science labs are undersized and lack the equipment necessary to teach 21st-century science. Removing portable buildings would further LAUSD's goal to reduce the number of students using temporary facilities. This will also improve student safety and way-finding on campus.

Depending on the physical condition and the Division of the State Architect closed and certified status of the modular buildings, one of the 28 portable buildings shall be relocated and reused as the new transportation building.

The demolished school buildings would be replaced by seven new buildings: Building A (a 2-story General Classroom Building); Building B (a 3-story General and Science Classroom Building); Building C (a 1-story Food Service Building); Building D (a 1-story Performing Arts Center and Student Store); Building E (Maintenance and Operations Building), Building F (Community Day Care), and Building G (Office). The proposed project also includes: site utilities infrastructure upgrades; new asphalt paving for physical education play courts and parking; landscape and hardscape areas; rerouting a pedestrian/energy service road to join Wilbur Avenue and Cantara Street (private); and converting a portion of the pedestrian/energy service road into a pedestrian spine. In addition, existing buildings to remain will require different levels of modernization, including exterior repainting, programmatic access, or complete interior remodeling. Implementation of the proposed project would add approximately 63,310 square feet of new buildings and remodel approximately 42,000 square feet of buildings at an existing campus. Operation of the proposed project would not generate new trips because the project would not increase student enrollment beyond the planned capacity.

The specific changes to the campus are listed in Table 1 and shown in Figure 3.

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Table 1 Proposed Project (Demolition, Remodel, and Construction)

Bldg. No.	Building	Demolition	Remodel/ Modernization	New Construction	Existing to Remain
1	Study Hall				1,547
2	Library				7,766
3	Arts Classrooms				16,631
4	Classrooms		12,354		584
5	Classrooms		12,052		1,365
6	Administration				11,652
7	Classrooms				12,071
8	Classrooms				12,072
9	Classrooms				12,996
10	Classrooms				12,532
11	Classrooms	2,644			
13	Dean's Office	1,704			
14	MPR-Food Service	23,848			
15	Student Store	842			
16	Utility	2,988			
17	Drafting	3,187			
18	Media Center				6,998
19	Storage	360			
20	Classrooms				11,987
21	Physical Education		17,756		21,352
22	Restrooms				1,101
25	Restrooms				779
28	Storage				360
29	Classrooms	6,166			
30	Classrooms	6,165			
31	Portable Classrooms	1,812			
32	Portable Classrooms	1,728			
33	Portable Classrooms	1,728			
34	Portable Classrooms	1,728			
35	Portable Classrooms	864			
36	Portable Classrooms	864			
37	Portable Classrooms	864			
38	Portable Classrooms	864			
39	Portable Classrooms	864			
40	Portable Classrooms	864			

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41	Portable Classrooms	1,435			
42	Portable Classrooms	957			
43	Portable Classrooms	957			
44	Portable Toilets	480			
45	Portable Storage	80			
46	Portable Classrooms	2,891			
47	Portable Daycare/Child Development Center	2,378			
48	Portable Classrooms	1,914			
49	Portable Classrooms	1,914			
50	Portable Classrooms	1,914			
51	Portable Classrooms	1,914			
52	Portable Classrooms	1,914			
53	Portable Classrooms	1,914			
54	Portable Classrooms	1,914			
55	Portable Classrooms	1,914			
56	Portable Classrooms	900			
57	Portable Classrooms	2500			
59	Transportation Portable	479			
	Building A and B Classrooms			88,429	
	Building C Food Service			25,320	
	Building D Arts Building			31,048	
	Building E Maintenance and Operations			3,506	
	Building F Child Development Center			2,472	
	Building G			989	
	Campus Total* (does not include outdoor space)	88,453	42,162	151,763	131,792

Note: All numbers are in square feet. All new square footages are approximate and subject to change during final site and architectural planning and design phases. These square footage changes would not significantly change the environmental analysis or findings in this Initial Study.

* Square footage totals may not add up exactly due to rounding and the way usable space is calculated. All numbers are based on LAUSD Cleveland Charter High School Comprehensive Modernization Project – Space Program. March 14, 2017.

Construction Schedule

Demolition of the existing buildings affected by the proposed Project is scheduled to commence during the fall/winter (fourth quarter) of 2018 and would last for approximately three to four months. After demolition and site preparation work is completed, construction of the new buildings would commence concurrently. The Project would last for approximately 36 months and is anticipated to be completed by late-2021. The 36-month construction schedule will be divided into two 18-month sequential phases and will not overlap with one another.

AIR QUALITY REGULATORY SETTING

The project site is located within the 6,745-square-mile South Coast Air Basin (SCAB). The South Coast Air Quality Management District (SCAQMD) is required, pursuant to the Clean Air Act, to reduce emissions of criteria air pollutants for which the SCAB is in non-attainment (i.e., O₃, PM₁₀, and PM_{2.5}). The project would be subject to SCAQMD's AQMP, which contains a comprehensive list of pollution control strategies directed at reducing emissions and achieving ambient air quality standards. These strategies are based, in part, on regional population, housing, and employment projections prepared by SCAG, the regional planning agency for Los Angeles County. The strategies address regional issues about transportation, the economy, community development, and the environment. The District is also required to incorporate the LAUSD *School Design Guide*¹ into the site design and construction, and consistency with the applicable air quality management plan is mandated.

Federal Regulation - Clean Air Act (CAA)

The federal Clean Air Act (CAA), as amended, is the primary federal law that governs air quality, while the California CAA (CCAA) is a parallel State of California law. These laws, and related regulations by the U.S. Environmental Protection Agency (USEPA) and California Air Resources Board (CARB), set standards for the allowable concentrations of air pollutants. The federal standards are the National Ambient Air Quality Standards (NAAQS) and the State standards are the California Ambient Air Quality Standards (CAAQS); these standards are listed in Table 2.

The NAAQS and CAAQS have been established for six criteria air pollutants that have been linked to potential health concerns: carbon monoxide (CO), nitrogen dioxide (NO₂), ozone (O₃), particulate matter (PM) which is broken down for regulatory purposes into particles of 10 micrometers or smaller (PM₁₀) and particles of 2.5 micrometers and smaller (PM_{2.5}), and sulfur dioxide (SO₂). In addition, national and state standards exist for lead (Pb), and state standards exist for visibility-reducing particles, sulfates, hydrogen sulfide (H₂S), and vinyl chloride. The NAAQS and CAAQS are set at levels that protect public health with an adequate margin of safety, and are subject to periodic review and revision. Both federal and State regulations also address toxic air contaminants (TACs); some criteria pollutants are also TACs or may include certain TACs in their general definition.

The air toxics provisions of the CAA require the USEPA to develop and enforce regulations to protect the public from exposure to airborne contaminants that are known to be hazardous to human health. In accordance with Section 112 of the CAA, the USEPA establishes National Emission Standards for Hazardous Air Pollutants (HAP). The list of HAP, or TAC, includes specific chemical compounds that are known to cause or suspected of causing cancer or other serious health effects.

State Regulation – California Clean Air Act

In addition to being subject to the requirements of the CAA, air quality in California is also governed by more stringent regulations under the CCAA. The CAAQS are generally more stringent than the corresponding federal standards, and incorporate additional standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. The CCAA was amended in 1992 to require all air districts in the State to endeavor to achieve and maintain the CAAQS. The CCAA is administered by CARB at the State level and by air quality management districts and air pollution control districts at the regional and

¹ Los Angeles Unified School District. 2015. *School Design Guide*.

local levels. The CARB is responsible for meeting the State requirements of the CAA, administering the CCAA, and establishing the CAAQS. The CARB oversees the functions of local air pollution control districts and air quality management districts which, in turn, administer air quality activities at the regional and county levels.

Local Regulations

Air Quality Management Plan – South Coast Air Quality Management District

The *Air Quality Management Plan* (AQMP) prepared by South Coast Air Quality Management District (SCAQMD) describes a comprehensive air pollution control program focused on attaining the state and federal ambient air quality standards and planning requirements in the Air Basin². It calls for the implementation of all-feasible control measures and the advancement and use of technologies for which breakthroughs are on the horizon. The AQMP is updated every 3 years. Revisions to the AQMP are considered amendments to the State Implementation Plan (SIP).

Regional Comprehensive Plan and Guide (RCP&G)

The *Regional Comprehensive Plan and Guide* (RCP&G), developed by the Southern California Association of Governments (SCAG), was adopted in May 1995³. The RCP&G provides a framework for regional goals and assists local jurisdictions in meeting state and federal requirements and devising appropriate land use strategies. The components of the RCP&G, which include air quality, transportation and land use, among others, each contain goals and strategies for identifying and reducing cumulative impacts from new projects and plans, as required by CEQA and other state and federal regulations.

Air Quality Element

The City of Los Angeles *Air Quality Element* was adopted in November 1992. The objectives are to aid the region in attaining state and federal air quality standards, while continuing to allow economic growth and improvement in the quality of life for City residents. The City of Los Angeles *Air Quality Element* also discusses how the City plans to implement local programs contained in the SCAQMD's AQMP⁴.

AFFECTED ENVIRONMENT

Topography and Climate

San Fernando Valley has a Mediterranean climate typical of southern California, but its climate is distinct from other areas of the City of Los Angeles. San Fernando Valley experiences substantially higher daytime air temperatures than the southern California coastal basin, while summer nights are relatively cool. The highest temperatures are typically recorded in the southwestern end of the valley. The Valley's highest recorded air temperature is 116° F. Winters are substantially wetter than in coastal areas.

Attainment Status

Criteria air pollutants are defined as those pollutants for which the federal and state governments have established ambient air quality standards, based on health criteria, for outdoor concentrations to

² South Coast Air Quality Management District. 2012. *Air Quality Management Plan*.

³ Southern California Association of Governments. 1995. *Regional Comprehensive Plan and Guide*.

⁴ City of Los Angeles. 1992. *Air Quality Element*.

protect public health and prevent degradation of the environment. Areas are classified as attainment or nonattainment areas for particular pollutants depending on whether they meet the ambient air quality standards:

- **Unclassified.** A pollutant is designated unclassified if the data are incomplete and do not support a designation of attainment or nonattainment.
- **Attainment.** A pollutant is in attainment if the AAQS for that pollutant was not violated at any site in the area during a three-year period.
- **Nonattainment.** A pollutant is in nonattainment if there was at least one violation of an AAQS for that pollutant in the area.
- **Nonattainment/Transitional.** A subcategory of the nonattainment designation. An area is designated nonattainment/transitional to signify that the area is close to attaining the AAQS for that pollutant.

Severity classifications for ozone nonattainment range in magnitude from marginal, moderate, and serious to severe and extreme.

The State and federal standards for these pollutants are shown in Table 2. As shown in Table 2, the project area is generally in attainment of air quality standards for CO, NO₂, SO₂, and lead. The project area is generally not in attainment of air quality standards for O₃ and PM. In the South Coast Air Basin, motor vehicles are the single largest source of O₃ precursor pollutants, while PM is generated by a diverse array of man-made sources, as well as natural sources. The SCAQMD has an extensive set of regulations designed to reduce the generation of PM, while the RCP&G seeks to reduce vehicle-miles traveled by motor vehicles with the goal of reducing automobile-related air pollutants, including O₃ precursors.

Sensitive Receptors

Sensitive receptors for air pollutants include residences, schools, daycare centers, playgrounds, and medical facilities. These land uses provide facilities for individuals who may be highly susceptible to the effects of air pollution, such as children, the elderly, or those with pre-existing health conditions. Sensitive land uses within 500 feet of the proposed project site are predominantly schools and residential development.

Local Ambient Air Quality

Criteria Air Pollutants

The SCAQMD maintains a network of monitoring stations throughout the Air Basin to measure ambient concentrations of problem air pollutants within its jurisdiction. The Reseda air monitoring station is located about 1.5 miles southeast of Cleveland HS; the Reseda station monitors concentrations of O₃, NO₂, and PM_{2.5} and, until 2012, monitored CO. Monitoring data for the Reseda station are presented in Table 3. These data indicate that O₃ and PM_{2.5} continue to occasionally exceed federal and state air quality standards intended to protect human health with an adequate margin of safety.

Table 2: Ambient Air Quality Standards and Attainment Status

Criteria Pollutant	Averaging Period	Air Quality Standard		Project Area Status	
		State	Federal	State	Federal
Ozone (O ₃)	1 hour	0.09 ppm	NA	Nonattainment	NA
	8 hour	0.070 ppm	0.070 ppm	Nonattainment	Nonattainment - Extreme
Carbon Monoxide (CO)	1 hour	20 ppm	35 ppm	Attainment	Attainment – Maintenance
	8 hour	9.0 ppm	9 ppm		
Respirable Particulate Matter (PM ₁₀)	24 hour	50 µg/m ³	150 µg/m ³	Nonattainment	Attainment – Maintenance
	Annual	20 µg/m ³	NA	Nonattainment	NA
Fine Particulate Matter (PM _{2.5})	24 hour	NA	35 µg/m ³	NA	Nonattainment - Serious
	Annual	12 µg/m ³	12.0 µg/m ³	Nonattainment	Nonattainment - Serious
Nitrogen Dioxide (NO ₂)	1 hour ^a	0.18 ppm	0.100 ppm	Attainment	Attainment
	Annual	0.030 ppm	0.053 ppm		
Sulfur Dioxide (SO ₂) ^b	1 hour	0.25 ppm	0.075 ppm	Attainment	Attainment
	24 hour	0.04 ppm	0.14 ppm (for certain areas)	Attainment	Attainment
	Annual	NA	0.030 ppm (for certain areas)	NA	Attainment
Lead (Pb)	Monthly	1.5 µg/m ³	NA	Attainment	NA
	3-month average	NA	1.5 µg/m ³	NA	Attainment ^c

Notes: These are primary standards intended to protect public health. Secondary standards also have been promulgated to protect the public welfare and the environment. State standards are “not to exceed” or “not to be equaled or exceeded” unless stated otherwise. Federal standards are “not to exceed more than once a year” or as described above. ppm = parts per million. µg/m³ = micrograms per cubic meter.

^a New NO₂ 1-hour standard, effective August 2, 2010; annual NO₂ standard was retained.

^b The 1971 annual and 24-hour federal SO₂ standards were revoked, effective August 23, 2010; however, these 1971 standards will remain in effect until one year after USEPA promulgates area designations for the 2010 SO₂ 1-hour standard. Area designations are still pending – the expected designations are shown above.

^c Partial Nonattainment designation for Los Angeles County portion of Air Basin only for near-source monitors. The Air Basin is expected to remain in attainment based on current monitoring data.

SOURCE: South Coast Air Quality Management District, March 23, 2017 (<http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/naaq-caoqs-feb2016.pdf>).

Table 3: Reseda Air Pollutant Concentrations

Pollutant	National and State Standards	Maximum Concentrations and Exceedances of Standards			
		2012	2013	2014	2015
Ozone (O ₃)	Maximum 1-hr Concentration (ppm) Days > 0.09 ppm (State 1-hr Standard)	0.129 18	0.124 7	0.116 6	0.119 11
	Maximum 8-hr Concentration (ppm) Days > 0.07 ppm (Federal 8-hr Standard)	0.098 38	0.092 20	0.092 27	0.094 32
	Maximum 8-hr Concentration (ppm) Days > 0.07 ppm (State 8-hr Standard)	0.098 23	0.092 21	0.093 31	0.095 34
Nitrogen Dioxide (NO ₂)	Maximum 1-hr Concentration (ppm) Days > 0.10 ppm (Federal 1-hr Standard)	70.9 0	58.1 0	58.9 0	72.5 0
	Maximum 1-hr Concentration (ppm) Days > 0.18 ppm (State 1-hr Standard)	70 0	58 0	58 0	72 0
Carbon Monoxide (CO)	Maximum 8-hr concentration (ppm) Days > 9.0 ppm (Federal 8-hr standard)	2.7 0	NA	NA	NA
	Maximum 8-hr concentration (ppm) Days > 9.0 ppm (State 8-hr Standard)	2.85 0	NA	NA	NA
Fine Particulate Matter (PM _{2.5})	Maximum 24-hr Concentration (µg/m ³) Days > 35 µg/m ³ (Federal Standard)	41.6 6.9	41.8 3.0	27.2	36.8 3.6
	Annual Average Concentration (µg/m ³) Exceed State Standard (12 µg/m ³)	10.4	9.8	NA	8.8

Source: CARB, Air Quality Data Statistics, <http://www.arb.ca.gov/adam/>, accessed March 23, 2017. Data are for the Reseda station at 18330 Gault Street.

Toxic Air Contaminants

In addition to the criteria air pollutants addressed by NAAQS and CAAQS, USEPA and CARB regulate HAP, also known as TAC. Most TACs originate from human-made sources, including on-road mobile sources, non-road mobile sources (e.g., airplanes), area sources (e.g., dry cleaners) and stationary sources (e.g., factories or refineries). The CAA identifies 188 TACs.

In suburban areas such as the project area, motor vehicles are a major source of TACs. Some toxic compounds are present in fuel and are emitted to the air when the fuel evaporates or passes through the engine unburned. Other toxics are emitted from the incomplete combustion of fuels or as secondary combustion products. Metal air toxics also result from engine wear or from impurities in oil or gasoline. In the USEPA's latest final rule on the control of hazardous air pollutants from mobile sources, 93 compounds were identified, and from this list, seven in particular, were identified as priority mobile source air toxics; acrolein (C₃H₄O), benzene (C₆H₆), 1,3 – butadiene (C₄H₆), Diesel particulate matter (DPM) plus diesel exhaust organic gases, formaldehyde (CH₂O), naphthalene (C₁₀H₈), and polycyclic organic matter.

METHODOLOGY

Projected construction-related air pollutant emissions are calculated using the California Emissions Estimator Model (CalEEMod), Version 2016.3.1, distributed by the California Air Pollutant Control Officers Association (CAPCOA). Model results are provided in Appendix A of this document. CalEEMod

compiles an emissions inventory of construction (fugitive dust, off-gas emissions, on road emissions, and off road emissions), area sources, indirect emissions from energy use, mobile sources, indirect emissions from waste disposal (annual only), and indirect emissions from water/wastewater (annual only) use. The calculated emissions of the project are compared to thresholds of significance for individual projects using the SCAQMD's *CEQA Air Quality Analysis Guidance Handbook* (SCAQMD 1993).⁵

The CEQA guidance allows the significance criteria established by the applicable air quality management or air pollution control district to be used to assess impacts of a project on air quality. SCAQMD has established thresholds of significance for regional air quality emissions for construction activities and project operation. In addition to the daily thresholds listed above, projects are also subject to the AAQS. These are addressed through an analysis of localized CO impacts and localized significance thresholds (LSTs).

The SCAQMD has adopted regional construction and operational emissions thresholds to determine a project's cumulative impact on air quality in the SoCAB. Project construction air pollution-related emissions calculated using CalEEMod were compared to the regional construction and operational thresholds to determine potential project impacts.

Projects that exceed the regional significance threshold contribute to the nonattainment designation of the SoCAB. The attainment designations are based on the AAQS, which are set at levels of exposure that are determined to not result in adverse health impacts. Regional impacts from a single project would not exclusively trigger a regional health impact.

The LST analysis for construction is applicable to all projects of five acres and less. In accordance with SCAQMD's LST methodology, construction LSTs are based on the acreage disturbed per day based on equipment use. The SCAQMD developed LSTs for emissions of NO₂, CO, PM₁₀, and PM_{2.5} generated at the project site (off-site mobile source emissions are not included in the LST analysis). LSTs represent the maximum emissions at the project site that are not expected to cause or contribute to an exceedance of the most stringent federal or state AAQS.

AIR QUALITY ANALYSIS

The project site is located within the SCAB, which is characterized by relatively poor air quality. State and federal air quality standards are often exceeded in many parts of the SCAB, including those monitoring stations nearest to the project location (see Table 3). Construction activities associated with the proposed project would contribute to local and regional air pollutant emissions during construction (short-term). Based on the following analysis, however, construction and operation of the proposed project would result in less-than-significant impacts relative to the daily significance thresholds for criteria air pollutant emissions established by the SCAQMD for construction and operational phases.

A project is consistent with the AQMP if it is consistent with the population, housing, and employment assumptions that were used to develop the AQMP. The proposed project would not increase enrollment at the school beyond the planned capacity, so no population increase would result from its implementation. Therefore, the project would not be considered growth-generating, and it can be concluded that the project would be consistent with the projections in the AQMP. In addition, as further discussed below, implementation of the proposed project would not exceed any ambient air quality

⁵ SCAQMD's Air Quality Significance Thresholds are current as of March 2015 and can be found at: <http://www.aqmd.gov/ceqa/hdbk.html>

standards or thresholds. Therefore, the proposed project would not conflict with or obstruct implementation of the SCAQMD's AQMP.

Project construction would intermittently require up to 40 to 50 workers on-site and up to 12 haul trucks per day. LAUSD encourages construction hauling to occur during off-peak commuter travel times. As a result, the proposed project would not exceed any CMP thresholds, and the proposed project would not impact the CMP network, or conflict with or obstruct its implementation.

Construction Impacts

Construction could impact regional air quality impacts by using heavy-duty construction equipment and by vehicle trips generated by construction workers traveling to and from the project site. In addition, fugitive dust emissions would result from demolition, site preparation, and construction activities. Mobile source emissions, primarily PM and nitrogen oxides (NO_x) would result from the use of construction equipment such as bulldozers, loaders, and haul trucks. Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation and, for dust, the prevailing weather conditions.

During the finishing phase, paving operations and the application of architectural coatings (i.e., paints) and other building materials would release volatile organic compounds (VOCs). For this calculation, the application of architectural coatings to existing buildings being renovated was assumed to be ongoing during other construction activities. Regional construction-related emissions associated with heavy construction equipment were calculated using the CalEEMod emissions inventory model originally developed by the SCAQMD, accounting for mandatory control measures. Model results are provided in Appendix A of this document. The analysis assumed that all construction activities would comply with SCAQMD Rule 403 regarding the control of fugitive dust.

The proposed project would include grading and construction activities and, therefore, could emit fugitive dust. As required by the District, the proposed project would be consistent with plans adopted to reduce criteria air pollutant emissions, such as California Green Building Code (Title 24), SCAQMD Rule 403, and other statewide strategies to reduce criteria pollutant emissions. All unpaved demolition and construction areas would be wetted at least twice daily during excavation and construction, and temporary dust covers would be used as feasible to reduce dust emissions by up to 50 percent to comply with SCAQMD District Rule 403.

A summary of maximum daily regional construction emissions by construction year is presented in Table 4, Project Construction Emissions, along with the regional significance thresholds for each air pollutant. As shown therein, maximum regional construction emissions of criteria air pollutants would not exceed the thresholds, although maximum regional emissions of VOCs would approach its significance threshold.

Implementing the proposed project could expose nearby sensitive receptors to elevated air pollutant concentrations. These sensitive receptors could include children, the elderly, persons with pre-existing respiratory or cardiovascular illness, and athletes and others who engage in frequent exercise. The nearest sensitive receptors to the site are existing students, as well as residential uses adjacent to the site. The nearest sensitive receptors are located approximately 200 feet from the nearest edges of proposed construction areas.

Table 4 - Project Construction Emissions

Construction Year	Maximum Daily Emissions by Construction Year (lb/day)						
	VOC	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO _{2e}
2018	3.5	37.8	28.9	0.03	8.2	4.6	3,442
2019	3.9	32.8	27.8	0.04	8.1	4.5	3,389
2020	73.4	33.2	27.5	0.04	8.0	4.9	4,328
2021	70.0	27.5	26.9	0.04	2.2	1.0	3,323
Maximum Regional Emissions	73.4	37.8	28.9	0.04	8.2	4.9	NA
SCAQMD Daily Significance Thresholds	75	100	550	150	150	55	NA
Exceed Threshold?	No	No	No	No	No	No	NA
Notes: VOC - volatile organic compounds, NO _x - nitrogen oxides, CO - carbon monoxide, SO ₂ - sulfur dioxide, PM ₁₀ - Particulate Matter under 10 microns, PM _{2.5} - Particulate Matter under 2.5 microns.							

Source: See Appendix A

The proposed project's anticipated maximum daily construction emissions, shown in Table 4, and the LSTs presented in Table 5, indicate that PM_{2.5} emissions from construction activities could occasionally have a substantial effect on outdoor air quality at the closest residential units. Because construction activities would be spread over a large area and would occur intermittently during the day, such a result is not expected. The construction schedule and equipment mix were based on preliminary designs and are subject to minor changes during final design and as dictated by field conditions. The LSTs employ numerous simplifying assumptions and are used to screen out clearly insignificant sources of air pollutants; this result indicates that more evaluation of construction PM_{2.5} emissions from the proposed project is recommended if the project schedule is condensed below the 36-month timeframe. Based on the proposed project's maximum daily operational emissions and SCAQMD LSTs shown in Table 5, operational emissions from the project would have no potential to affect nearby sensitive receptors.

According to SCAQMD's CEQA Air Quality Handbook⁶, construction equipment is not a typical source of odors. Potential sources of odors during construction include the application of asphalt and architectural coatings and the use of cleaning solvents. SCAQMD Rule 1113 limits the amount of VOCs from architectural coatings and solvents. SCAQMD Rules prohibit construction activities or materials that could emit objectionable odors. Any odors from construction equipment exhaust or from asphalt or architectural coatings would be temporary and intermittent, and such odors would cease upon the drying or hardening of these materials. The nearest sensitive receptors to the site are existing students and nearby residents. However, project-related construction activities would not typically generate nuisance odors at nearby sensitive receptors.

The proposed project's contribution to cumulative air quality impacts during construction would be insignificant, based on the emissions estimates presented in Table 4. Project construction emissions would not result in a cumulatively considerable net increase in any criteria air pollutant for which SCAQMD has established a local impact threshold.

⁶ South Coast Air Quality Management District. 1993. CEQA Air Quality Handbook.

Though construction emissions for this project are not expected to exceed regional thresholds, the District is required to incorporate the Standard Conditions of Approval from the LAUSD Final School Upgrade Program Environmental Impact Report SUP Program EIR). Incorporating Standard Condition SC-AQ-2 will ensure that construction emissions would have minimal off-site impacts.

SC-AQ-2 LAUSD's construction contractor shall ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications, to ensure excessive emissions are not generated by unmaintained equipment.

With implementation of Standard Condition SC-AQ-2, impacts with respect to construction emissions would remain less than significant.

Operational Impacts

SCAQMD has separate significance thresholds to evaluate potential impacts from incremental increases in criteria air pollutants associated with long-term project operations. Operational emissions for baseline and project conditions were computed using the CalEEMod emissions inventory model. The operational project scenario assumed that the school would operate at the planned capacity compared to the 2015-2016 actual enrollment, as well as an increase in building floor area of 63,310 square feet, with attendant onsite and regional stationary and mobile source emissions. Finally, the operational project scenario assumed that remodeled/modernized space would generate no more air pollutant emissions for comfort heating and the generation of electricity for cooling, lighting, and power needs than it did prior to implementation of the project.

Operational air pollutant emissions would result from off-gassing of construction materials and from building energy use. Mobile sources, which are generally the largest contributor to the overall long-term emissions inventory associated with operation of a school, would not increase because the project would not increase the planned enrollment capacity.

As indicated in Table 5, Project Operational Emissions, the proposed project would slightly increase maximum daily emissions of criteria air pollutants. However, these emissions would be well below the SCAQMD daily significance thresholds for long-term regional operations. The new buildings would meet the latest Building Energy Efficiency Standards and the California Green Building Standards Code and would be more energy efficient. In addition, the primary source of long-term criteria air pollutant emissions are mobile sources. Because the project would not increase the number of students or capacity of the school, it would not introduce new vehicle trips. Thus, the project would not result in an increase in long-term criteria air pollutant emissions. Furthermore, the District is required to comply with all applicable regulations and incorporate measures from the LAUSD School Design Guide, which includes standards for water and energy conservation to further reduce impacts. Therefore, the proposed project would not have a substantial air quality impact from long-term operational emissions, and impacts would be less than significant.

Table 5: Project Operational Emissions

Emissions Source	Maximum Daily Emissions (lb/day)						
	VOC	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}	CO _{2e}
Area	3.0	<0.001	<0.001	<0.001	<0.001	<0.001	0.0
Energy	0.01	0.1	0.1	<0.001	0.01	0.01	112
Total	3.0	0.1	0.1	<0.001	0.01	0.01	112
SCAQMD LST	NA	194	4,119	NA	21	7	NA
Exceed Threshold?	NA	No	No	NA	No	No	NA
Notes: VOC – volatile organic compounds, NO _x – nitrogen oxides, CO – carbon monoxide, SO ₂ – sulfur dioxide, PM ₁₀ – Particulate Matter under 10 microns, PM _{2.5} – Particulate Matter under 2.5 microns, LST – Localized Significance Thresholds for a 5-acre site and a 200-ft source-receptor distance.							

Source: See Appendix A

According to SCAQMDs *CEQA Air Quality Handbook*, land uses associated with odor complaints typically include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The proposed project would not involve elements related to these types of uses. On-site trash receptacles used by the proposed project would be covered and properly maintained to prevent adverse odors. With proper housekeeping practices, trash receptacles would be maintained in a manner that promotes odor control, no adverse odor impacts are anticipated from these types of land uses. While there is a potential for odors to occur, compliance with industry standard odor control practices, SCAQMD Rule 402 (Nuisance), and SCAQMD Best Available Control Technology Guidelines would limit potential objectionable odor impacts to a less than significant level. Therefore, odor impacts related to project implementation would be less than significant.

Applying SCAQMD’s cumulative air quality impact assessment methods, implementation of the proposed project would not increase emissions of criteria air pollutants such that substantial cumulative impacts would occur in conjunction with related projects in the region.

Greenhouse Gas Emissions

Global climate change refers to changes in average climatic conditions on Earth as a whole, including changes in temperature, wind patterns, precipitation and storms. Greenhouse gases (“GHGs”) are those compounds in the Earth’s atmosphere which play a critical role in determining temperature near the Earth’s surface. GHGs include CO₂, methane (CH₄), O₃, water vapor, nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆). Specifically, these gases allow high-frequency shortwave solar radiation to enter the Earth’s atmosphere, but retain some of the low frequency infrared energy which is radiated back from the Earth towards space, resulting in a warming of the atmosphere. This phenomenon is known as the greenhouse effect. Increased concentrations of GHGs in the Earth’s atmosphere have been linked to global climate change and such conditions as rising surface temperatures, melting icebergs and snowpack, rising sea levels, and the increased frequency and magnitude of severe weather conditions. Existing climate change models also show that climate warming portends a variety of impacts on agriculture, including loss of microclimates that support specific crops, increased pressure from invasive weeds and diseases, and loss of productivity due to changes in water reliability and availability. In addition, rising temperatures and shifts in microclimates associated with global climate change are expected to increase the frequency and intensity of wildfires. There continues to be significant scientific uncertainty concerning the extent

to which increased concentrations of GHGs have caused or will cause climate change, and over the appropriate actions to limit and/or respond to climate change.

No individual project is large enough to single-handedly result in a significant increase in global concentrations of GHGs, as GHG emissions related to a project are not confined to a particular air basin but are dispersed worldwide. As such, by their nature, project-related climate change impacts contribute cumulatively to this impact, through direct and indirect GHG emissions.

CEQA requires lead agencies to evaluate potential environmental effects based to the fullest extent possible on scientific and factual data. Significant conclusions must be based on substantial evidence, which includes facts, reasonable assumptions predicated upon facts, and expert opinion supported by facts.

The primary State and regional plans for reducing GHG emissions include Assembly Bill (AB) 32 (Scoping Plan) prepared by CARB and the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) prepared by SCAG. The CARB AB 32 Scoping Plan contains the main strategies to achieve the 2020 emissions cap. The Scoping Plan was developed by CARB with input from the Climate Action Team, and included a comprehensive set of actions designed to reduce overall carbon emissions in California, improve the environment, reduce oil dependency, diversify energy sources, and enhance public health while creating new jobs and improving the State economy. The GHG reduction strategies contained in the Scoping Plan include direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, and market-based mechanisms such as a cap-and-trade system.

The 2016-2040 RTP/SCS includes a strong commitment to reduce regional GHG emissions. Goals and policies included in the RTP/SCS are generally related to transportation and consist of adding density in proximity to transit stations, mixed-use development and encouraging active transportation (i.e., non-motorized transportation such as bicycling).

In addition to the state and regional plans for reducing GHGs, California Building Codes require energy efficient and green building standards for new residential and non-residential buildings. These include planning and design standards for sustainable site development, energy efficiency, water conservation, material conservation, and internal air contaminant reduction. The proposed project would also incorporate standards developed by the Collaborative for High Performance Schools, with goals established for the proposed project for energy and water efficiency, drought-tolerant landscaping, and materials reuse and recycling.

Thresholds of Significance

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

- The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting;
- Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and
- The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional or local plan for the reduction or mitigation of GHG emissions.

The SCAQMD has identified a tiered approach for evaluating GHG emissions where SCAQMD is not the lead agency.

- Tier 1. If a project is exempt from CEQA, project-level and cumulative GHG emissions are less than significant.
- Tier 2. If the project complies with a GHG emissions reduction plan or mitigation program that avoids or substantially reduces GHG emissions in the project's geographic area (i.e., city or county), project-level and cumulative GHG emissions are less than significant.
- Tier 3. If GHG emissions are less than the screening-level threshold, project-level and cumulative emissions are less than significant.

For projects that are not exempt or where no qualifying GHG reduction plans are directly applicable, SCAQMD requires an assessment of GHG emissions. SCAQMD identified a screening-level threshold of 3,000 MTCO₂e annually for all land types or the following land-use specific thresholds: 1,400 MTCO₂e for commercial projects, 3,500 MTCO₂e for residential projects, or 3,000 MTCO₂e for mixed-use projects. These bright-line thresholds are based on a review of the Governor's Office of Planning and Research database of CEQA projects. Projects that do not exceed these bright-line thresholds would have a nominal and therefore less than cumulatively considerable impact on GHG emissions:

- Tier 4. If emissions exceed the screening threshold, a more detailed review of the project's GHG emissions is warranted.

Project-related GHG emissions include on-road transportation, energy use, water use and wastewater generation, solid waste disposal, area sources, off-road emissions, and construction activities. The SCAQMD Working Group determined that because construction activities would result in a "one-time" net increase in GHG emissions, construction activities should be amortized into the operational phase GHG emissions inventory based on the service life of a building. For buildings, in general, it is reasonable to look at a 30-year timeframe, since this is the typical interval before a new building requires major renovation. Life cycle emissions are not included in this analysis because not enough information is available for the proposed project, and therefore life cycle GHG emissions would be speculative. For the purpose of this project, SCAQMD's project-level thresholds are used. If projects exceed the bright-line and per capita efficiency targets, GHG emissions would be considered potentially significant in the absence of mitigation measures.

Based on the planned student enrollment of the school, GHG emissions from the proposed project would incrementally increase from the current level of enrollment, which is slightly less than the planned enrollment level. The GHG emissions of the proposed project would not be cumulatively considerable. GHG emissions generated by the proposed project are considered less than significant. The proposed project would be consistent with plans adopted to reduce GHG emissions, such as SCAG's 2016-2040 RTP/SCS, California AB 32, ARB's 2008 Scoping Plan, and other statewide strategies. The proposed project would fulfill the educational needs of local communities. With no increase in the planned student enrollment, the project would not induce growth. Thus, the project would be consistent with the goals of the 2016-2040 RTP/SCS.

The proposed project would comply with GHG emissions reduction measures. In furtherance of such measures, LAUSD's SUP Program EIR requires construction contractors to reuse, recycle, and salvage non-hazardous materials generated during demolition or new construction, as materials recovery would minimize the need to produce and transport new materials, thereby reducing emissions from mobile

sources and energy use. Implementing LAUSD's Standard Conditions GHG-1, GHG-2, GHG-3, GHG-4 and GHG-5 would ensure that the proposed project was consistent with plans, policies, and regulations adopted to reduce GHG emissions.

- SC-GHG-1** During school operation, LAUSD shall perform regular preventative maintenance on pumps, valves, piping, and tanks to minimize water loss.
- SC-GHG-2** LAUSD shall utilize automatic sprinklers set to irrigate landscaping during the morning and evening hours to reduce water loss from evaporation.
- SC-GHG-3** LAUSD shall reset automatic sprinkler timers to water less during cooler months and the rainy season.
- SC-GHG-4** LAUSD shall develop a water budget for landscape (both non-recreational and recreational) and ornamental water use to conform to the City of Los Angeles Water Efficient Landscape Ordinance (No. 170978).
- SC-GHG-5** LAUSD shall ensure that the time dependent valued energy of the proposed project design is at least 10 percent, with a goal of 20 percent less than a standard design that is in minimum compliance with the California Title 24, Part 6 energy efficiency standards that are in force at the time the project is submitted to the Division of the State Architect.

REFERENCES

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PREPARER

Bruce Campbell, AICP, Senior Project Manager.
35 years of experience.

APPENDIX A
CaIEMOD OUTPUT FILES

**CONSTRUCTION EMISSIONS
OUTPUT FILES**

Cleveland High School
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	1,971.00	Student	0.86	74,957.00	0
Parking Lot	0.90	Acre	0.90	39,204.00	0
Other Non-Asphalt Surfaces	1.20	Acre	1.20	52,272.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Entered actual site acreage per the project description
 Default square feet of school bldgs changed per Project Description

Construction Phase - custom 18-month schedule

Demolition -

Grading - Max area to be graded at any given time is 5 ac

Architectural Coating -

Area Coating -

Area Mitigation -

Trips and VMT - Max 50 workers per City

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	42.00
tblConstructionPhase	NumDays	220.00	261.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	6.00	22.00
tblConstructionPhase	NumDays	10.00	42.00
tblConstructionPhase	NumDays	3.00	21.00
tblConstructionPhase	PhaseEndDate	4/29/2020	3/2/2020
tblConstructionPhase	PhaseEndDate	11/30/2018	12/3/2018
tblConstructionPhase	PhaseStartDate	3/3/2020	1/3/2020
tblConstructionPhase	PhaseStartDate	11/2/2018	11/5/2018
tblGrading	MaterialExported	0.00	2,147.00
tblLandUse	LandUseSquareFeet	261,474.79	74,957.00
tblLandUse	LotAcreage	6.00	0.86
tblProjectCharacteristics	OperationalYear	2014	2021
tblTripsAndVMT	WorkerTripNumber	70.00	50.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	2.5179	27.8188	21.3513	0.0346		1.3840	3.2330		1.2946	2.1756						3,442.4470
2019	2.9216	22.7553	20.5911	0.0376		1.2062	3.1050		1.1097	2.0578						3,389.0206
2020	72.3852	19.1693	19.9919	0.0376		0.9753	1.7027		0.9338	1.1300						3,331.1405
Total	77.8246	69.7434	61.9343	0.1097		3.5654	8.0407		3.3381	5.3633						10,162.6081

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	2.5179	27.8188	21.3513	0.0346		1.3840	2.1698		1.2946	1.6291						3,442.4470
2019	2.9216	22.7553	20.5911	0.0376		1.2062	2.0417		1.1097	1.5113						3,389.0206
2020	72.3852	19.1693	19.9919	0.0376		0.9753	1.7027		0.9338	1.1300						3,331.1405
Total	77.8246	69.7434	61.9343	0.1097		3.5654	5.9141		3.3381	4.2704						10,162.6081

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	26.45	0.00	0.00	20.38	0.00	0.00	0.00	0.00	0.00	0.00

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	9/3/2018	11/1/2018	5	44	
2	Site Preparation	Site Preparation	11/5/2018	12/3/2018	5	21	
3	Grading	Grading	12/4/2018	1/2/2019	5	22	
4	Building Construction	Building Construction	1/3/2019	1/2/2020	5	261	
5	Paving	Paving	1/3/2020	3/2/2020	5	42	
6	Architectural Coating	Architectural Coating	1/3/2020	3/2/2020	5	42	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 192,608; Non-Residential Outdoor: 64,203 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Scrapers	1	8.00	361	0.48
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	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
Demolition	5	13.00	0.00	194.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	272.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	50.00	27.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust						0.0000	0.9561		0.0000	0.1448						0.0000
Off-Road	2.3936	23.5008	19.6968	0.0245		1.3660	1.3660		1.2780	1.2780						2,440.1728
Total	2.3936	23.5008	19.6968	0.0245		1.3660	2.3221		1.2780	1.4228						2,440.1728

3.2 Demolition - 2018

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	0.0758	1.0918	0.9632	3.2800e-003		0.0167	0.0936		0.0154	0.0364							320.4114
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.0485	0.0663	0.6913	1.7800e-003		1.2700e-003	0.1466		1.1800e-003	0.0397							139.9837
Total	0.1243	1.1581	1.6545	5.0600e-003		0.0180	0.2401		0.0166	0.0762							460.3951

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust						0.0000	0.3872		0.0000	0.0586							0.0000
Off-Road	2.3936	23.5008	19.6968	0.0245		1.3660	1.3660		1.2780	1.2780							2,440.1728
Total	2.3936	23.5008	19.6968	0.0245		1.3660	1.7532		1.2780	1.3367							2,440.1728

3.2 Demolition - 2018

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	0.0758	1.0918	0.9632	3.2800e-003		0.0167	0.0936		0.0154	0.0364							320.4114
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.0485	0.0663	0.6913	1.7800e-003		1.2700e-003	0.1466		1.1800e-003	0.0397							139.9837
Total	0.1243	1.1581	1.6545	5.0600e-003		0.0180	0.2401		0.0166	0.0762							460.3951

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust						0.0000	0.2388		0.0000	0.0263							0.0000
Off-Road	2.1932	24.5707	15.3552	0.0238		1.1803	1.1803		1.0859	1.0859							2,415.0456
Total	2.1932	24.5707	15.3552	0.0238		1.1803	1.4191		1.0859	1.1122							2,415.0456

3.3 Site Preparation - 2018

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	0.2226	3.2073	2.8296	9.6400e-003		0.0492	0.2748		0.0452	0.1070							941.2575
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.0299	0.0408	0.4254	1.1000e-003		7.8000e-004	0.0902		7.3000e-004	0.0244							86.1438
Total	0.2524	3.2482	3.2550	0.0107		0.0500	0.3650		0.0460	0.1315							1,027.4014

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust						0.0000	0.0967		0.0000	0.0107							0.0000
Off-Road	2.1932	24.5707	15.3552	0.0238		1.1803	1.1803		1.0859	1.0859							2,415.0456
Total	2.1932	24.5707	15.3552	0.0238		1.1803	1.2771		1.0859	1.0966							2,415.0456

3.3 Site Preparation - 2018

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	0.2226	3.2073	2.8296	9.6400e-003		0.0492	0.2748		0.0452	0.1070							941.2575
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.0299	0.0408	0.4254	1.1000e-003		7.8000e-004	0.0902		7.3000e-004	0.0244							86.1438
Total	0.2524	3.2482	3.2550	0.0107		0.0500	0.3650		0.0460	0.1315							1,027.4014

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust						0.0000	1.7870		0.0000	0.9184							0.0000
Off-Road	2.3737	24.6088	17.7193	0.0205		1.3333	1.3333		1.2266	1.2266							2,082.9202
Total	2.3737	24.6088	17.7193	0.0205		1.3333	3.1203		1.2266	2.1450							2,082.9202

3.4 Grading - 2018

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
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.0373	0.0510	0.5318	1.3700e-003		9.8000e-004	0.1128		9.1000e-004	0.0306							107.6798
Total	0.0373	0.0510	0.5318	1.3700e-003		9.8000e-004	0.1128		9.1000e-004	0.0306							107.6798

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust						0.0000	0.7237		0.0000	0.3720							0.0000
Off-Road	2.3737	24.6088	17.7193	0.0205		1.3333	1.3333		1.2266	1.2266							2,082.9202
Total	2.3737	24.6088	17.7193	0.0205		1.3333	2.0570		1.2266	1.5986							2,082.9202

3.4 Grading - 2018

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
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.0373	0.0510	0.5318	1.3700e-003		9.8000e-004	0.1128		9.1000e-004	0.0306							107.6798
Total	0.0373	0.0510	0.5318	1.3700e-003		9.8000e-004	0.1128		9.1000e-004	0.0306							107.6798

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						0.0000	1.7870		0.0000	0.9184							0.0000
Off-Road	2.2026	22.7085	17.1623	0.0205		1.2052	1.2052		1.1088	1.1088							2,049.2326
Total	2.2026	22.7085	17.1623	0.0205		1.2052	2.9922		1.1088	2.0272							2,049.2326

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	lb/day										lb/day						
Hauling	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
Worker	0.0343	0.0468	0.4869	1.3600e-003		9.6000e-004	0.1127		8.9000e-004	0.0305							103.4509
Total	0.0343	0.0468	0.4869	1.3600e-003		9.6000e-004	0.1127		8.9000e-004	0.0305							103.4509

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust						0.0000	0.7237		0.0000	0.3720							0.0000
Off-Road	2.2026	22.7085	17.1623	0.0205		1.2052	1.2052		1.1088	1.1088							2,049.2326
Total	2.2026	22.7085	17.1623	0.0205		1.2052	1.9290		1.1088	1.4808							2,049.2326

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	lb/day										lb/day						
Hauling	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
Worker	0.0343	0.0468	0.4869	1.3600e-003		9.6000e-004	0.1127		8.9000e-004	0.0305							103.4509
Total	0.0343	0.0468	0.4869	1.3600e-003		9.6000e-004	0.1127		8.9000e-004	0.0305							103.4509

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	2.5471	18.7802	15.2049	0.0249		1.0846	1.0846		1.0399	1.0399							2,309.8005
Total	2.5471	18.7802	15.2049	0.0249		1.0846	1.0846		1.0399	1.0399							2,309.8005

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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Vendor	0.2031	1.8701	2.9519	5.8500e-003		0.0297	0.1983		0.0274	0.0753							558.9988
Worker	0.1713	0.2339	2.4344	6.8200e-003		4.7800e-003	0.5637		4.4300e-003	0.1527							517.2546
Total	0.3744	2.1040	5.3863	0.0127		0.0345	0.7619		0.0318	0.2280							1,076.2534

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	2.5471	18.7802	15.2049	0.0249		1.0846	1.0846		1.0399	1.0399							2,309.8005
Total	2.5471	18.7802	15.2049	0.0249		1.0846	1.0846		1.0399	1.0399							2,309.8005

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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Vendor	0.2031	1.8701	2.9519	5.8500e-003		0.0297	0.1983		0.0274	0.0753							558.9988
Worker	0.1713	0.2339	2.4344	6.8200e-003		4.7800e-003	0.5637		4.4300e-003	0.1527							517.2546
Total	0.3744	2.1040	5.3863	0.0127		0.0345	0.7619		0.0318	0.2280							1,076.2534

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	2.2780	17.3169	14.8514	0.0249		0.9434	0.9434		0.9045	0.9045							2,286.4660
Total	2.2780	17.3169	14.8514	0.0249		0.9434	0.9434		0.9045	0.9045							2,286.4660

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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Vendor	0.1940	1.6357	2.8756	5.8500e-003		0.0272	0.1957		0.0250	0.0730							546.5383
Worker	0.1606	0.2168	2.2649	6.8200e-003		4.7300e-003	0.5636		4.3900e-003	0.1526							496.4474
Total	0.3547	1.8524	5.1405	0.0127		0.0319	0.7593		0.0294	0.2256							1,042.9857

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	2.2780	17.3169	14.8514	0.0249		0.9434	0.9434		0.9045	0.9045							2,286.4660
Total	2.2780	17.3169	14.8514	0.0249		0.9434	0.9434		0.9045	0.9045							2,286.4660

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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Vendor	0.1940	1.6357	2.8756	5.8500e-003		0.0272	0.1957		0.0250	0.0730							546.5383
Worker	0.1606	0.2168	2.2649	6.8200e-003		4.7300e-003	0.5636		4.3900e-003	0.1526							496.4474
Total	0.3547	1.8524	5.1405	0.0127		0.0319	0.7593		0.0294	0.2256							1,042.9857

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.1414	11.4467	11.6577	0.0176		0.6496	0.6496		0.5988	0.5988							1,696.9460
Paving	0.0561					0.0000	0.0000		0.0000	0.0000							0.0000
Total	1.1976	11.4467	11.6577	0.0176		0.6496	0.6496		0.5988	0.5988							1,696.9460

3.6 Paving - 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	lb/day										lb/day						
Hauling	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
Worker	0.0482	0.0650	0.6795	2.0500e-003		1.4200e-003	0.1691		1.3200e-003	0.0458							148.9342
Total	0.0482	0.0650	0.6795	2.0500e-003		1.4200e-003	0.1691		1.3200e-003	0.0458							148.9342

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	1.1414	11.4467	11.6577	0.0176		0.6496	0.6496		0.5988	0.5988							1,696.9460
Paving	0.0561					0.0000	0.0000		0.0000	0.0000							0.0000
Total	1.1976	11.4467	11.6577	0.0176		0.6496	0.6496		0.5988	0.5988							1,696.9460

Cleveland High School
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	1,971.00	Student	0.86	74,957.00	0
Parking Lot	0.90	Acre	0.90	39,204.00	0
Other Non-Asphalt Surfaces	1.20	Acre	1.20	52,272.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Entered actual site acreage per the project description
 Default square feet of school bldgs changed per Project Description

Construction Phase - custom 18-month schedule

Demolition -

Grading - Max area to be graded at any given time is 5 ac

Architectural Coating -

Area Coating -

Area Mitigation -

Trips and VMT - Max 50 workers per City

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	220.00	260.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	6.00	23.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	3.00	20.00
tblConstructionPhase	PhaseEndDate	11/2/2021	9/1/2021
tblConstructionPhase	PhaseStartDate	9/2/2021	7/2/2021
tblGrading	MaterialExported	0.00	2,147.00
tblLandUse	LandUseSquareFeet	261,474.79	74,957.00
tblLandUse	LotAcreage	6.00	0.86
tblProjectCharacteristics	OperationalYear	2014	2021
tblTripsAndVMT	WorkerTripNumber	70.00	50.00

2.0 Emissions Summary

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	3/3/2020	5/4/2020	5	45	
2	Site Preparation	Site Preparation	5/5/2020	6/1/2020	5	20	
3	Grading	Grading	6/2/2020	7/2/2020	5	23	
4	Building Construction	Building Construction	7/3/2020	7/1/2021	5	260	
5	Paving	Paving	7/2/2021	9/1/2021	5	44	
6	Architectural Coating	Architectural Coating	7/2/2021	9/1/2021	5	44	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 192,608; Non-Residential Outdoor: 64,203 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Scrapers	1	8.00	361	0.48
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	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
Demolition	5	13.00	0.00	194.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	272.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	50.00	27.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

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						0.0000	0.9349		0.0000	0.1415						0.0000
Off-Road	2.0090	19.7619	18.4615	0.0245		1.0636	1.0636		0.9944	0.9944						2,370.8179
Total	2.0090	19.7619	18.4615	0.0245		1.0636	1.9985		0.9944	1.1359						2,370.8179

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	lb/day										lb/day						
Hauling	0.0711	0.8914	0.9184	3.1900e-003		0.0162	0.0914		0.0149	0.0355							300.0712
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.0418	0.0564	0.5889	1.7700e-003		1.2300e-003	0.1465		1.1400e-003	0.0397							129.0763
Total	0.1129	0.9477	1.5072	4.9600e-003		0.0175	0.2379		0.0161	0.0752							429.1475

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust						0.0000	0.3786		0.0000	0.0573							0.0000
Off-Road	2.0090	19.7619	18.4615	0.0245		1.0636	1.0636		0.9944	0.9944							2,370.8179
Total	2.0090	19.7619	18.4615	0.0245		1.0636	1.4423		0.9944	1.0517							2,370.8179

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	lb/day										lb/day						
Hauling	0.0711	0.8914	0.9184	3.1900e-003		0.0162	0.0914		0.0149	0.0355							300.0712
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.0418	0.0564	0.5889	1.7700e-003		1.2300e-003	0.1465		1.1400e-003	0.0397							129.0763
Total	0.1129	0.9477	1.5072	4.9600e-003		0.0175	0.2379		0.0161	0.0752							429.1475

3.3 Site Preparation - 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						0.0000	0.2508		0.0000	0.0276							0.0000
Off-Road	1.8730	20.3605	13.8874	0.0238		0.9555	0.9555		0.8791	0.8791							2,323.3580
Total	1.8730	20.3605	13.8874	0.0238		0.9555	1.2063		0.8791	0.9067							2,323.3580

3.3 Site Preparation - 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	lb/day										lb/day						
Hauling	0.2243	2.8119	2.8971	0.0101		0.0513	0.2882		0.0472	0.1120							946.6163
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.0257	0.0347	0.3624	1.0900e-003		7.6000e-004	0.0902		7.0000e-004	0.0244							79.4316
Total	0.2500	2.8466	3.2595	0.0112		0.0520	0.3784		0.0479	0.1365							1,026.0479

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust						0.0000	0.1016		0.0000	0.0112							0.0000
Off-Road	1.8730	20.3605	13.8874	0.0238		0.9555	0.9555		0.8791	0.8791							2,323.3580
Total	1.8730	20.3605	13.8874	0.0238		0.9555	1.0571		0.8791	0.8903							2,323.3580

3.3 Site Preparation - 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	lb/day										lb/day						
Hauling	0.2243	2.8119	2.8971	0.0101		0.0513	0.2882		0.0472	0.1120							946.6163
Vendor	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Worker	0.0257	0.0347	0.3624	1.0900e-003		7.6000e-004	0.0902		7.0000e-004	0.0244							79.4316
Total	0.2500	2.8466	3.2595	0.0112		0.0520	0.3784		0.0479	0.1365							1,026.0479

3.4 Grading - 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						0.0000	1.7093		0.0000	0.8785							0.0000
Off-Road	2.0420	20.7903	16.4814	0.0205		1.0873	1.0873		1.0003	1.0003							2,004.4168
Total	2.0420	20.7903	16.4814	0.0205		1.0873	2.7966		1.0003	1.8788							2,004.4168

3.4 Grading - 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	lb/day										lb/day						
Hauling	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
Worker	0.0321	0.0434	0.4530	1.3600e-003		9.5000e-004	0.1127		8.8000e-004	0.0305							99.2895
Total	0.0321	0.0434	0.4530	1.3600e-003		9.5000e-004	0.1127		8.8000e-004	0.0305							99.2895

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust						0.0000	0.6923		0.0000	0.3558							0.0000
Off-Road	2.0420	20.7903	16.4814	0.0205		1.0873	1.0873		1.0003	1.0003							2,004.4168
Total	2.0420	20.7903	16.4814	0.0205		1.0873	1.7795		1.0003	1.3561							2,004.4168

3.4 Grading - 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	lb/day										lb/day						
Hauling	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
Worker	0.0321	0.0434	0.4530	1.3600e-003		9.5000e-004	0.1127		8.8000e-004	0.0305							99.2895
Total	0.0321	0.0434	0.4530	1.3600e-003		9.5000e-004	0.1127		8.8000e-004	0.0305							99.2895

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	2.2780	17.3169	14.8514	0.0249		0.9434	0.9434		0.9045	0.9045							2,286.4660
Total	2.2780	17.3169	14.8514	0.0249		0.9434	0.9434		0.9045	0.9045							2,286.4660

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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Vendor	0.1940	1.6357	2.8756	5.8500e-003		0.0272	0.1957		0.0250	0.0730							546.5383
Worker	0.1606	0.2168	2.2649	6.8200e-003		4.7300e-003	0.5636		4.3900e-003	0.1526							496.4474
Total	0.3547	1.8524	5.1405	0.0127		0.0319	0.7593		0.0294	0.2256							1,042.9857

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	2.2780	17.3169	14.8514	0.0249		0.9434	0.9434		0.9045	0.9045							2,286.4660
Total	2.2780	17.3169	14.8514	0.0249		0.9434	0.9434		0.9045	0.9045							2,286.4660

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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Vendor	0.1940	1.6357	2.8756	5.8500e-003		0.0272	0.1957		0.0250	0.0730							546.5383
Worker	0.1606	0.2168	2.2649	6.8200e-003		4.7300e-003	0.5636		4.3900e-003	0.1526							496.4474
Total	0.3547	1.8524	5.1405	0.0127		0.0319	0.7593		0.0294	0.2256							1,042.9857

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	2.0361	15.9226	14.5200	0.0249		0.8130	0.8130		0.7792	0.7792							2,286.2162
Total	2.0361	15.9226	14.5200	0.0249		0.8130	0.8130		0.7792	0.7792							2,286.2162

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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Vendor	0.1871	1.3914	2.8048	5.8400e-003		0.0247	0.1933		0.0227	0.0707							546.1169
Worker	0.1519	0.2023	2.1241	6.8400e-003		4.7200e-003	0.5636		4.3700e-003	0.1526							488.6336
Total	0.3390	1.5937	4.9289	0.0127		0.0294	0.7569		0.0271	0.2233							1,034.7504

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	2.0361	15.9226	14.5200	0.0249		0.8130	0.8130		0.7792	0.7792							2,286.2162
Total	2.0361	15.9226	14.5200	0.0249		0.8130	0.8130		0.7792	0.7792							2,286.2162

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	lb/day										lb/day						
Hauling	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000							0.0000
Vendor	0.1871	1.3914	2.8048	5.8400e-003		0.0247	0.1933		0.0227	0.0707							546.1169
Worker	0.1519	0.2023	2.1241	6.8400e-003		4.7200e-003	0.5636		4.3700e-003	0.1526							488.6336
Total	0.3390	1.5937	4.9289	0.0127		0.0294	0.7569		0.0271	0.2233							1,034.7504

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	1.0509	10.5186	11.6254	0.0176		0.5763	0.5763		0.5314	0.5314							1,696.8473
Paving	0.0536					0.0000	0.0000		0.0000	0.0000							0.0000
Total	1.1045	10.5186	11.6254	0.0176		0.5763	0.5763		0.5314	0.5314							1,696.8473

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	lb/day										lb/day						
Hauling	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
Worker	0.0456	0.0607	0.6372	2.0500e-003		1.4200e-003	0.1691		1.3100e-003	0.0458							146.5901
Total	0.0456	0.0607	0.6372	2.0500e-003		1.4200e-003	0.1691		1.3100e-003	0.0458							146.5901

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	1.0509	10.5186	11.6254	0.0176		0.5763	0.5763		0.5314	0.5314							1,696.8473
Paving	0.0536					0.0000	0.0000		0.0000	0.0000							0.0000
Total	1.1045	10.5186	11.6254	0.0176		0.5763	0.5763		0.5314	0.5314							1,696.8473

Cleveland High School
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	42.20	1000sqft	0.97	42,200.00	0
Other Non-Asphalt Surfaces	0.00	Acre	0.00	0.00	0
Parking Lot	0.00	Acre	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Entered actual site acreage per the project description
 Default square feet of school bldgs changed per Project Description

Construction Phase - custom 18-month schedule

Demolition -

Grading - Max area to be graded at any given time is 5 ac

Architectural Coating -

Area Coating -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	320.00
tblProjectCharacteristics	OperationalYear	2014	2021

2.0 Emissions Summary

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	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	Architectural Coating	Site Preparation	10/1/2018	12/20/2019	5	320	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 63,300; Non-Residential Outdoor: 21,100 (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

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	4.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

OPERATIONAL EMISSIONS
OUTPUT FILE

Cleveland High School
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	700.00	Student	2.40	106,599.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Entered actual site acreage per the project description

Construction Phase -

Demolition -

Grading -

Architectural Coating -

Area Coating -

Landscape Equipment -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	92,862.68	106,599.00
tblLandUse	LotAcreage	2.13	2.40
tblProjectCharacteristics	OperationalYear	2014	2021
tblTripsAndVMT	VendorTripNumber	17.00	15.00
tblTripsAndVMT	WorkerTripNumber	45.00	39.00

2.0 Emissions Summary

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	2.7942	6.6000e-004	0.0718	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004							0.1617
Energy	0.0343	0.3118	0.2619	1.8700e-003		0.0237	0.0237		0.0237	0.0237							376.4474
Mobile	6.4381	20.8952	79.1203	0.1555		0.3289	11.1757		0.3020	3.2016							14,474.9955
Total	9.2666	21.2077	79.4539	0.1574		0.3529	11.1997		0.3259	3.2256							14,851.6046

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	2.7942	6.6000e-004	0.0718	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004							0.1617
Energy	0.0343	0.3118	0.2619	1.8700e-003		0.0237	0.0237		0.0237	0.0237							376.4474
Mobile	6.4381	20.8952	79.1203	0.1555		0.3289	11.1757		0.3020	3.2016							14,474.9955
Total	9.2666	21.2077	79.4539	0.1574		0.3529	11.1997		0.3259	3.2256							14,851.6046

3.2 Building Construction - 2018

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
Vendor	0.1191	1.1267	1.6935	3.2700e-003		0.0174	0.1110		0.0160	0.0426						317.0723
Worker	0.1456	0.1990	2.0739	5.3400e-003		3.8200e-003	0.4398		3.5400e-003	0.1192						419.9512
Total	0.2646	1.3257	3.7673	8.6100e-003		0.0212	0.5507		0.0195	0.1618						737.0235

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	6.4381	20.8952	79.1203	0.1555		0.3289	11.1757		0.3020	3.2016						14,474.9955
Unmitigated	6.4381	20.8952	79.1203	0.1555		0.3289	11.1757		0.3020	3.2016						14,474.9955

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	1,197.00	427.00	175.00	4,018,806	4,018,806
Total	1,197.00	427.00	175.00	4,018,806	4,018,806

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.535275	0.058759	0.178478	0.127034	0.038632	0.006246	0.015618	0.028471	0.002426	0.003171	0.003696	0.000547	0.001645

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	0.6768					0.0000	0.0000		0.0000	0.0000							0.0000
Consumer Products	2.1107					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	6.7000e-003	6.6000e-004	0.0718	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004							0.1617
Total	2.7942	6.6000e-004	0.0718	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004							0.1617

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						
Consumer Products	2.1107					0.0000	0.0000		0.0000	0.0000							0.0000
Landscaping	6.7000e-003	6.6000e-004	0.0718	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004							0.1617
Architectural Coating	0.6768					0.0000	0.0000		0.0000	0.0000							0.0000
Total	2.7942	6.6000e-004	0.0718	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004							0.1617

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
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10.0 Vegetation

Appendix B

Tree Inventory & Preservation Report



NOTE: NO EXISTING TREE WITHIN THE SCOPE OF OR IS PROTECTED THE CITY OF LOS ANGELES.

TREE DISPOSITION LEGEND

- 1 TO E REMOVED DUE TO PROPOSED GRADIENT OR BUILDING STRUCTURE CONSTRUCTION
- 2 TO E REMOVED DUE TO POOR HEALTH
- TO E PROTECTED IN PLACE
- TREES NOT IN SCOPE

Tree #	Species	DBH	Ht.	Structure	Health	Disposition	Comments
1	Pinus contorta	20	20	A	A	1	Remove and compact
2	Magnolia grandiflora	4	15	A	C	2	Burned leaf edges
3	Callistemon citrinus	13	23	C	C	2	Over 100' long canopy
4	Lophocarpus confertus	13	30	C	A	1	Underground trunk
5	Lophocarpus confertus	8	27	C	C	1	Good to collect
6	Lophocarpus confertus	10	25	C	B	1	Good
7	Lophocarpus confertus	10	42	D	C	2	Good parent
8	Lophocarpus confertus	6	25	C	B	2	Good
9	Lophocarpus confertus	6	22	D	C	1	Good parent
10	Pinus contorta	13	18	C	C	1	Good parent tree
11	Callitris speciosa	13	26	C	C	1	Good sapling branching (R) CR
12	Callitris speciosa	6	24	C	C	1	Flatt cut, 1x, crosscut roots (CR)
13	Callitris speciosa	18	30	D	C	1	Flatt cut, 1x, crosscut roots (CR)
14	Callitris speciosa	13	26	D	C	1	Flatt cut, 1x, crosscut roots (CR)
15	Schefflera arborescens	4	15	C	C	1	CR
16	Pinus contorta	14	16	D	D	1	Good cut
17	Pinus contorta	11	16	D	D	1	Good cut (B) CR
18	Acacia saligna	13	18	F	F	2	Good (B) CR
19	Acacia saligna	13	18	F	F	2	Good (B) CR
20	Washingtonia filifera	34	30	A	C	1	Flatt cut, 1x, crosscut roots (CR)
21	Washingtonia filifera	33	30	A	C	1	Flatt cut, 1x, crosscut roots (CR)
22	Pinus contorta	23	45	C	C	1	Good cut (B) CR
23	Pinus contorta	23	45	C	C	1	Good cut (B) CR
24	Pinus contorta	23	45	C	C	1	Good cut (B) CR
25	Pinus contorta	23	45	C	C	1	Good cut (B) CR
26	Pinus contorta	23	45	C	C	1	Good cut (B) CR
27	Pinus contorta	23	45	C	C	1	Good cut (B) CR
28	Pinus contorta	23	45	C	C	1	Good cut (B) CR
29	Pinus contorta	23	45	C	C	1	Good cut (B) CR
30	Pinus contorta	23	45	C	C	1	Good cut (B) CR
31	Pinus contorta	23	45	C	C	1	Good cut (B) CR
32	Pinus contorta	23	45	C	C	1	Good cut (B) CR
33	Pinus contorta	23	45	C	C	1	Good cut (B) CR
34	Pinus contorta	23	45	C	C	1	Good cut (B) CR
35	Pinus contorta	23	45	C	C	1	Good cut (B) CR
36	Pinus contorta	23	45	C	C	1	Good cut (B) CR
37	Pinus contorta	23	45	C	C	1	Good cut (B) CR
38	Pinus contorta	23	45	C	C	1	Good cut (B) CR
39	Pinus contorta	23	45	C	C	1	Good cut (B) CR
40	Pinus contorta	23	45	C	C	1	Good cut (B) CR
41	Pinus contorta	23	45	C	C	1	Good cut (B) CR
42	Pinus contorta	23	45	C	C	1	Good cut (B) CR
43	Pinus contorta	23	45	C	C	1	Good cut (B) CR
44	Pinus contorta	23	45	C	C	1	Good cut (B) CR
45	Pinus contorta	23	45	C	C	1	Good cut (B) CR
46	Pinus contorta	23	45	C	C	1	Good cut (B) CR
47	Pinus contorta	23	45	C	C	1	Good cut (B) CR
48	Pinus contorta	23	45	C	C	1	Good cut (B) CR
49	Pinus contorta	23	45	C	C	1	Good cut (B) CR
50	Pinus contorta	23	45	C	C	1	Good cut (B) CR
51	Pinus contorta	23	45	C	C	1	Good cut (B) CR
52	Pinus contorta	23	45	C	C	1	Good cut (B) CR
53	Pinus contorta	23	45	C	C	1	Good cut (B) CR
54	Pinus contorta	23	45	C	C	1	Good cut (B) CR
55	Pinus contorta	23	45	C	C	1	Good cut (B) CR
56	Pinus contorta	23	45	C	C	1	Good cut (B) CR
57	Pinus contorta	23	45	C	C	1	Good cut (B) CR
58	Pinus contorta	23	45	C	C	1	Good cut (B) CR

Abbreviations in the Matrix of Findings

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

CSP = crown spread	SP = stem girdler
D = dead	R = root g. rot
L = limb	SC = stem collar
S = sap	W = wood g. rot
U = under	Y = yellowing
V = visible	Z = zone
W = water	
X = xylem	
Y = yellowing	
Z = zone	
AA = as above	
BB = as above	
CC = as above	
DD = as above	
EE = as above	
FF = as above	
GG = as above	
HH = as above	
II = as above	
JJ = as above	
KK = as above	
LL = as above	
MM = as above	
NN = as above	
OO = as above	
PP = as above	
QQ = as above	
RR = as above	
SS = as above	
TT = as above	
UU = as above	
VV = as above	
WW = as above	
XX = as above	
YY = as above	
ZZ = as above	

NOTE: REFER TO CONSULTING ARBORIST'S REPORT, TREE INVENTORY & PRESERVATION REPORT FOR CLEVELAND HIGH SCHOOL, RESEA DATED JANUARY 11, 2017 FOR ADDITIONAL INFORMATION.

Tree Inventory & Preservation Report

for Cleveland High School, Reseda

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Introduction

Background

Ridge Landscape Architects is working on new landscape plans for the northeast part of Cleveland High School in the Los Angeles Unified School District. 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 temporary buildings and surrounding paving. Arborgate Consulting has been retained to analyze the quality of the mature trees in the plan area to aid in the planning process. The future health and safety of any retained trees will depend on protecting them during construction, providing a suitable environment for their future growth and providing proper maintenance. Many of the trees in this area are in very confined planters.

The trees of Cleveland High School are a significant asset to the campus. There are many large trees that provide shade 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 beyond their present age. One of the primary means of extending such trees' useful life expectancy is to protect and increase their root space.

There are no endangered species of trees in the plan area. 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. The only "native" tree is one coast redwood in the southeast corner. Most of the trees on campus are attractive from a distance; however when inspected individually, some have been poorly trained or pruned, contain structural defects, or are in declining to poor health due to pests, soil compaction, or the small root space available.

Assignment

This consultant was asked to provide arboricultural evaluation of approximately 60 trees' health and condition, professional opinions and report as appropriate. Each tree will be tagged, measured, evaluated and photographed. Specific clearance and protection recommendations will be provided. Additional recommendation measures to improve the health of remaining trees are also included.

Executive Summary

Overview of Conditions and Recommendations

Sixty three trees are growing around the plan area at Cleveland High School, including: a number of pines; tulip trees, sweet gum and palms. There is also a good collection of citrus varieties. Their sizes, health and structural condition are found in the enclosed Matrix of Findings, later in this report.

Most of the trees planted in more open areas are doing well and could withstand normal construction impacts, if proper care is taken. However, as one should expect, the trees planted over fifty 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 planters and 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. Some species tolerate these conditions better than others, and young trees tolerate it better than old trees.

The section of the campus being developed has been covered by temporary buildings and paving. Most of the trees have little room for growth. Due to the short lifespan of trees in small, confined planters, planners should consider that remaining life expectancy is difficult to estimate and is more likely to 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 skillful 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 about average quality for low-bid work, 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.

The development of this area will include removal of the temporary buildings and surrounding paving. For most of the trees in this area to survive they will need to be transplanted to another area or boxed, stored and replanted. Unfortunately, most of these trees would not survive transplanting. The large group of citrus cannot be transplanted with any degree of success. The Brisbane box also cannot be reliably moved. Many other trees are too unhealthy to transplant or are in locations with insufficient room to work. The cost of transplanting the large pines and plane trees, in most cases, would be more than their value. No more than six trees are reasonable to retain, and those only by protecting them in place.

Findings

General

The largest category of trees on site is the citrus collection. Of the 63 trees in this report, 16 are citrus. There are 3 sweet gums, 3 tulip trees, 3 Brisbane box trees, five Canary Island pines and 3 Aleppo pines. The remainder of trees are in small numbers.

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 Aleppo pines have also performed well and could have good remaining life, but they need more root space, have more pest problems, and are more prone to limb or root failures. Structurally, the Aleppo pines here have significant weaknesses.

The next most common species is the sweetgums. Unfortunately, they are shallow rooted and more disease prone. In recent years they have been infested by sharpshooters that spread *Xylella fastidiosa*, a bacterial disease. Since these sweet gums have dropped their leaves, the only symptoms I saw are dead branches.

Practically, the best trees for preservation are along the western edge of the site. These trees may be outside the actual work area, but will still need protection.

Species distribution

Botanic name	Common name
<i>Acer palmatum</i>	Japanese maple
<i>Ailanthus altissima</i>	Tree of "heaven"
<i>Bauhinia variegata</i>	Orchid tree
<i>Callistemon citrinus</i>	Bottle brush
<i>Catalpa speciosa</i>	Northern catalpa
<i>Cedrus deodara</i>	Deodar cedar
<i>Cercis</i> sp.	Redbud
<i>Chamaerops humilis</i>	Mediterranean fan palm
Citrus ?	Unknown citrus cultivar
Citrus limon cv	Lemon cultivar
<i>Citrus reticulata</i>	Tangerine
Citrus sinensis cv	Orance cultivar
Citrus x paradisi cv	Grapefruit cultivar
<i>Ficus carica</i>	Fig
<i>Fortunella japonica</i>	Kumquat
<i>Geijera parvifolia</i>	Australian willow
<i>Jacaranda mimosifolia</i>	jacaranda
<i>Lagerstroemia indica</i>	Crape myrtle
<i>Liquidambar styraciflua</i>	Sweet gum
<i>Liriodendron tulipifera</i>	Tulip tree
<i>Lophostemon confertus</i>	Brisbane box
<i>Magnolia grandiflora</i>	Southern magnolia
<i>Pinus canariensis</i>	Canary Island pine
<i>Pinus halepensis</i>	Aleppo pine
<i>Pinus pinea</i>	Italian stone pine
<i>Platanus x acerifolia</i>	London plane tree
<i>Prunus persica</i> cv	Peach cultivar
<i>Pyrus kawakamii</i>	Evergreen pear
<i>Schefflera actinophylla</i>	Octopus tree
<i>Schinus terebinthifolius</i>	Brazil pepper
<i>Sequoia sempervirens</i>	Coast redwood
<i>Washingtonia hybrid</i>	Hybrid fan palm
<i>Washingtonia robusta</i>	Mexican fan palm

Note the wide diversity of species.

Pests and Disease

Few significant pests were noted. 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. 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.

General Soils Discussion

Root systems demand certain conditions and simply will not grow in compacted soil. On this site the fact that nearly the entire area was compacted to 90% or greater for the buildings and paving will require deep ripping and amending to make it suitable for new trees. Soil organic matter will be low and associated beneficial life in the soil will be absent or very low. Most of the organisms like earthworms, spring-tails, beneficial bacteria and algae, and mycorrhizal fungi have all died out beneath the modular units and paving. These organisms are important to healthy soil and healthy roots.

The best and most reliable procedure for preventing compaction 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 numbered on the provided map was measured and evaluated for the matrix below. 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” excellent, “B” good, “C” average, “D” poor, and “F” for dead or nearly dead.

Tree #	Species	DBH	Ht.	Structure	Health	Disposition 1-3	COMMENTS
1	<i>Pinus canariensis</i>	19	70	A	A	3	Narrow and compact
2	<i>Magnolia grandiflora</i>	4	15	A	C	3	Burned leaf edges
3	<i>Callistemon citrinus</i>	12	22	C-	C	3	Over lifted, basal injury
4	<i>Lophostemon confertus</i>	11	30	C	B	1	Codominant (cod)
5	<i>Lophostemon confertus</i>	8	27	C	C	1	Cod 1-sided
6	<i>Lophostemon confertus</i>	10	25	C	B	1	Cod
7	<i>Liquidambar styraciflua</i>	16	62	D	C	2	Cod topped
8	<i>Liquidambar styraciflua</i>	6	26	C	B	3	Cod
9	<i>Liquidambar styraciflua</i>	6	22	D-	C-	1	Cod girdled
10	<i>Pyrus kawakamii</i>	13	18	C-	C	1	Cod headed (Hd)
11	<i>Catalpa speciosa</i>	12	26	C	C	1	Cod dogleg branching (DL) CrR
12	<i>Catalpa speciosa</i>	6	24	C-	C	1	Flush cut, 1s, crowded roots (CrR)
13	<i>Schinus terebinthifolius</i>	19	30	D	C	1	Cod Hd DL CrR
14	<i>Catalpa speciosa</i>	13	26	D	C	1	Cod inc Hd CrR
15	<i>Schefflera actinophylla</i>	6	15	C	C	1	CrR
16	<i>Pinus canariensis</i>	24	80	C	A	1	Cod Hd
17	<i>Acer palmatum</i>	11	16	D	D	2	Cod Dk dieback (Db)
18	<i>Acer palmatum</i>	12	16	F	F	2	Dead decayed (Dk)
19	<i>Washingtonia hybrid</i>	36	50'th	B	C	1	Diamond scale, gaffed
20	<i>Washingtonia robusta</i>	22	80'th	B	B	1	Gaffed
21	<i>Jacaranda mimosifolia</i>	36	50	C	B	1	Cod Hd limb tore out
22	<i>Pinus canariensis</i>	29	85	C	C	1	Cod Hd lion-tailed (Lt)
23	<i>Platanus x acerifolia</i>	50	85	C	C	1	Cod topped, mistletoe
24	<i>Cercis sp.</i>	2+2	10	C	B	1	Cod
25	<i>Pinus halepensis</i>	36	70	C-	C-	2	Crossing limbs (Xing) Dk-Base Lt Cod
26	<i>Pinus canariensis</i>	29	90	B	B	1	Over-lifted (OL)
27	<i>Fortunella japonica</i>	2.5	11	D	D	2	1-sided root flare, shallow roots Db
28	<i>Bauhinia variegata</i>	5+6+7+8	32	C-	B	1	Xing cod, included bark (inc)
29	<i>Geijera parvifolia</i>	11	30	C	B	1	Db suckers
30	<i>Liriodendron tulipifera</i>	14	65	C	B	1	Cod Hd

Tree #	Species	DBH	Ht.	Structure	Health	Disposition 1-3	COMMENTS
31	Liriodendron tulipifera	14	65	C	B	1	Cod Hd
32	Chamaerops humilis	6	10'th	C-	C	1	over-pruned (OP)
33	Chamaerops humilis	6	12'th	C-	C	1	OP
34	Chamaerops humilis	6	9'th	C-	C	1	OP
35	Chamaerops humilis	6	9'th	C-	C	1	OP
36	Liriodendron tulipifera	20	65	C-	C	1	Hd DL, ivy up trunk
37	Prunus persica cv	3+4+5	11	C	C	1	1-sided, ivy up trunk
38	Citrus x paradisi	5	11	C	C	1	Cod chlorotic
39	Fortunella japonica	4	11	C	C	1	Cod chlorotic
40	Citrus x paradisi	6	12	C	C	1	Cod chlorotic
41	Citrus limon cv	2	6	C	C	1	Sparse (Sp)
42	Citrus limon cv	2	6	C	B	1	no fruit
43	Citrus limon cv	3	6	C	C	1	Chlorotic (chlor)
44	Citrus reticulata	5	12	C	D	2	Sp chlor cod
45	Citrus sp?	5	12	C	D-	2	no fruit
46	Citrus x paradisi	6''b	11	C	C	1	Cod inc
47	Lagerstroemia indica	8	18	C-	C	1	Cod Lt FC
48	Citrus sp?	4''b	7	C	C-	1	Db suckers
49	Citrus sinensis cv	4''b	8	C	B	1	Suckers
50	Citrus sp?	2	6	C-	C	1	crowded scaffold limbs (CrS) suckers
51	Citrus sp?	4''b	8	C	C	1	Cod inc suckers
52	Citrus sp?	3''b	6	C-	C	1	CrS suckers
53	Citrus x paradisi	3''b	2	C	B	1	a bush
54	Platanus x acerifolia	32	70	D	C	1	Topped cod epicormic shoots
55	Pinus pinea	7	11	C	A	1	Low branched, cod
56	Cedrus deodara	18	45	C-	C	1	OL FC Cr#57
57	Pinus canariensis	28	65	C	B	1	1s limbs too long Cr#56
58	Ficus carica	3+3+4+6	25	D	C	1	1-sided, covered by passion vine
59	Ailanthus altissima	3+4	20	D	D	2	covered by passion vine
60	Platanus x acerifolia	16	60	B	B	1	Good

Tree #	Species	DBH	Ht.	Structure	Health	Disposition 1-3	COMMENTS
61	Pinus halepensis	18+20	60	C-	B	2	topped, 1-sided, included bark
62	Pinus halepensis	24	60	B	C	2	Cod <u>included bark</u>
63	Sequoia sempervirens	16+16	70	C	B	3	Good structure
64	Pinus halepensis	24	60	C	B	2	Cod

*DBH – Diameter at Breast 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

Chlor = chlorotic

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 limb

epi = epicormic shoots

FC = flush cut

Hd = headed

Inc = included bark

Lt = lion tailed

OL = over-lifted

OP = over-pruned

R = root e.g. Rinj = root injury

RC = root crown

Sh = shallow roots

Sp = sparse

Sp. = species

S = scaffold limb

SW = sidewalk

T = trunk

TDk = trunk decay

Th = trunk height (for palms)

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.

Recommendations

Matrix of Recommendations

TREE DISPOSITION LEGEND

1 TO BE REMOVED DUE TO PROPOSED GRADIENT OR BUILDING STRUCTURE CONSTRUCTION

2 TO BE REMOVED DUE TO POOR HEALTH OR STABILITY

3 TO BE PROTECTED IN PLACE

NO.	BOTANICAL NAME	HT.	CALIPER	DISPOSITION	PROTECTION RADIUS
1	<i>Pinus canariensis</i>	70	19	3	15'
2	<i>Magnolia grandiflora</i>	15	4	3	3'
3	<i>Callistemon citrinus</i>	22	12	3	9'
4	<i>Lophostemon confertus</i>	30	11	1	N/A
5	<i>Lophostemon confertus</i>	27	8	1	N/A
6	<i>Lophostemon confertus</i>	25	10	1	N/A
7	<i>Liquidambar styraciflua</i>	62	16	2	12'
8	<i>Liquidambar styraciflua</i>	26	6	3	4.5'
9	<i>Liquidambar styraciflua</i>	22	6	1	N/A
10	<i>Pyrus kawakamii</i>	18	13	1	N/A
11	<i>Catalpa speciosa</i>	26	12	1	N/A

NO.	BOTANICAL NAME	HT.	CALIPER	DISPOSITION	PROTECTION RADIUS
12	<i>Catalpa speciosa</i>	24	6	1	N/A
13	<i>Schinus terebinthifolius</i>	30	19	1	N/A
14	<i>Catalpa speciosa</i>	26	13	1	N/A
15	<i>Schefflera actinophylla</i>	15	6	1	N/A
16	<i>Pinus canariensis</i>	80	24	1	N/A
17	<i>Acer palmatum</i>	16	11	2	N/A
18	<i>Acer palmatum</i>	16	12	2	N/A
19	<i>Washingtonia hybrid</i>	50'th	36	1	N/A
20	<i>Washingtonia robusta</i>	80'th	22	1	N/A
21	<i>Jacaranda mimosifolia</i>	50	36	1	N/A
22	<i>Pinus canariensis</i>	85	29	1	N/A
23	<i>Platanus x acerifolia</i>	85	50	1	N/A
24	<i>Cercis sp.</i>	10	2+2	1	N/A
25	<i>Pinus halepensis</i>	70	36	2	N/A
26	<i>Pinus canariensis</i>	90	29	1	N/A
27	<i>Fortunella japonica</i>	11	2.5	2	N/A
28	<i>Bauhinia variegata</i>	32	5+6+7+8	1	N/A
29	<i>Geijera parvifolia</i>	30	11	1	N/A
30	<i>Liriodendron tulipifera</i>	65	14	1	N/A
31	<i>Liriodendron tulipifera</i>	65	14	1	N/A
32	<i>Chamaerops humilis</i>	10'th	6	1	N/A
33	<i>Chamaerops humilis</i>	12'th	6	1	N/A
34	<i>Chamaerops humilis</i>	9'th	6	1	N/A
35	<i>Chamaerops humilis</i>	9'th	6	1	N/A
36	<i>Liriodendron tulipifera</i>	65	20	1	N/A
37	<i>Prunus persica cv</i>	11	3+4+5	1	N/A
38	<i>Citrus x paradisi</i>	11	5	1	N/A
39	<i>Fortunella japonica</i>	11	4	1	N/A
40	<i>Citrus x paradisi</i>	12	6	1	N/A

NO.	BOTANICAL NAME	HT.	CALIPER	DISPOSITION	PROTECTION RADIUS
41	Citrus limon cv	6	2	1	N/A
42	Citrus limon cv	6	2	1	N/A
43	Citrus limon cv	6	3	1	N/A
44	Citrus reticulata	12	5	2	N/A
45	Citrus ?	12	5	2	N/A
46	Citrus x paradisi	11	6"b	1	N/A
47	Lagerstroemia indica	18	8	1	N/A
48	Citrus ?	7	4"b	1	N/A
49	Citrus sinensis cv	8	4"b	1	N/A
50	Citrus ?	6	2	1	N/A
51	Citrus ?	8	4"b	1	N/A
52	Citrus ?	6	3"b	1	N/A
53	Citrus x paradisi	2	3"b	1	N/A
54	Platanus x acerifolia	70	32	1	N/A
55	Pinus pinea	11	7	1	N/A
56	Cedrus deodara	45	18	1	N/A
57	Pinus canariensis	65	28	1	N/A
58	Ficus carica	25	3+3+4+6	1	N/A
59	Ailanthus altissima	20	3+4	2	N/A
60	Platanus x acerifolia	60	16	1	N/A
61	Pinus halepensis	60	16+17	2	N/A
62	Sequoia sempervirens	70	24	3	24'
63	Pinus halepensis	60	16+16	2	N/A
64	Pinus halepensis	60	16+17	2	N/A

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 Canary Island pine has few if any pests. Southern magnolias do have occasional sucking insects, such as aphids and scale. The only one that is life threatening is the tulip tree scale. The bottle brush has few if any problems. The sweetgums appear to be infected with *Xylella*, but that has not been confirmed. The redwood occasionally has gray mold infections, but the one on this site appears healthy.

Decay is an infection of a pathogenic fungi that decomposes cellulose or lignin. There is no available treatment for internal decay. However, a healthy tree has a greater ability to compartmentalize decay and prevent or minimize its spread. A few trees were observed to be decaying. Most, if not all, of this originated from poor pruning cuts.

Decay, Mechanical Injury and Wind Damage

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 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 the new plan will necessitate the removal or relocation of certain trees. Specific information regarding the proximity of planned improvements to specific trees will be necessary to prepare a more specific tree preservation plan.

Soil Improvement

Typically, soil compaction happens so slowly and imperceptively 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 and maintenance 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 Cornell 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 or for many trees.

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.

Ground cover plantings or shrub plantings that prevent or discourage foot traffic will tend to reduce soil compaction.

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.

General Discussion

The removal of the buildings and surrounding paving will also eliminate most of these trees. Transplanting is not a viable option for saving trees in this case. This leaves protection in place and only a few trees (5) are a safe distance from the planned development and in adequate health and condition.

The shallow compacted soils will limit the health and stability of the remaining 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 Cleveland High are 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. The only way to keep and preserve such trees would be to increase the planting space and eliminate roads and parking, which may not be practical.

Because of the limited root space, life expectancy of these trees would be cut short. Limited root volume is the main reason the average life expectancy of street trees in Los Angeles is seventeen years. 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 controlled and obtained? Now is the time period for planning. 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. During this current planned construction is a good time to replace such trees.

Replacement

Periodic replacement is the best and most practical solution for large trees in small planters in high traffic areas at Cleveland 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 than others, such as ficus. Root barriers, properly installed can also reduce damage. However, sooner or later almost any tree will outgrow the small planters.

Try to keep a good diversity of species. Diversity will reduce the incidence and severity of disease. If an aggressive disease is introduced, a diverse group of trees will provide good insurance against losing a large portion of the trees.

Tree Preservation Specifications

1. Protection Barrier: A protection barrier shall be installed around the tree or trees to be preserved. The barrier shall be constructed of durable fencing material, such as chain-link fencing. The barrier shall be placed as far from the base of the tree(s) as possible, at least 1-foot per inch of trunk diameter and beyond the drip-line. The fencing shall be maintained in good repair throughout the duration of the project, and shall not be removed, relocated, or encroached upon without permission of the arborist involved.
2. Storage of Materials: There shall be NO storage of materials or supplies of any kind within the area of the protection barriers. Concrete and cement materials, block, stone, sand and soil shall not be placed within the drip-line of the tree.
3. Fuel Storage: Fuel storage shall NOT be permitted within 150 feet of any tree to be preserved. Refueling, servicing and maintenance of equipment and machinery shall NOT be permitted within 150 feet of protected trees.
4. Debris and Waste Materials: Debris and waste from construction or other activities shall NOT be permitted within protected areas. Wash down of concrete or cement handling equipment, in particular, shall NOT be permitted within 150 feet of protected trees.
5. Planting near Trees Designated for Protection: Any digging within designated protection zones shall done using supersonic air directly as the digging medium, by means of a nozzle, whose nominal rated input pressure (available from manufacturer's literature) must not exceed 130 psig (pounds per square inch at gage) unless otherwise approved. Nozzles designed for input above 130 psig can damage fine roots. Air compressors rated between 100 to 125 psig recommended.
6. Grade Changes: Any grade changes proposed should be approved by a Registered Consulting Arborist before construction begins, and precautions taken to mitigate potential injuries. Grade changes can be particularly damaging to trees. Even as little as two inches of fill can cause the death of a tree. Lowering the grade can destroy major portions of a root system.

7. Damages: Any tree damages or injuries should be reported to the project arborist as soon as possible. Severed roots shall be pruned cleanly to healthy tissue, using proper pruning tools. Broken branches or limbs shall be pruned according to International Society of Arboriculture Pruning Guidelines and ANSI A-300 Pruning Standards.

Disclaimer

Professional and current information on tree 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

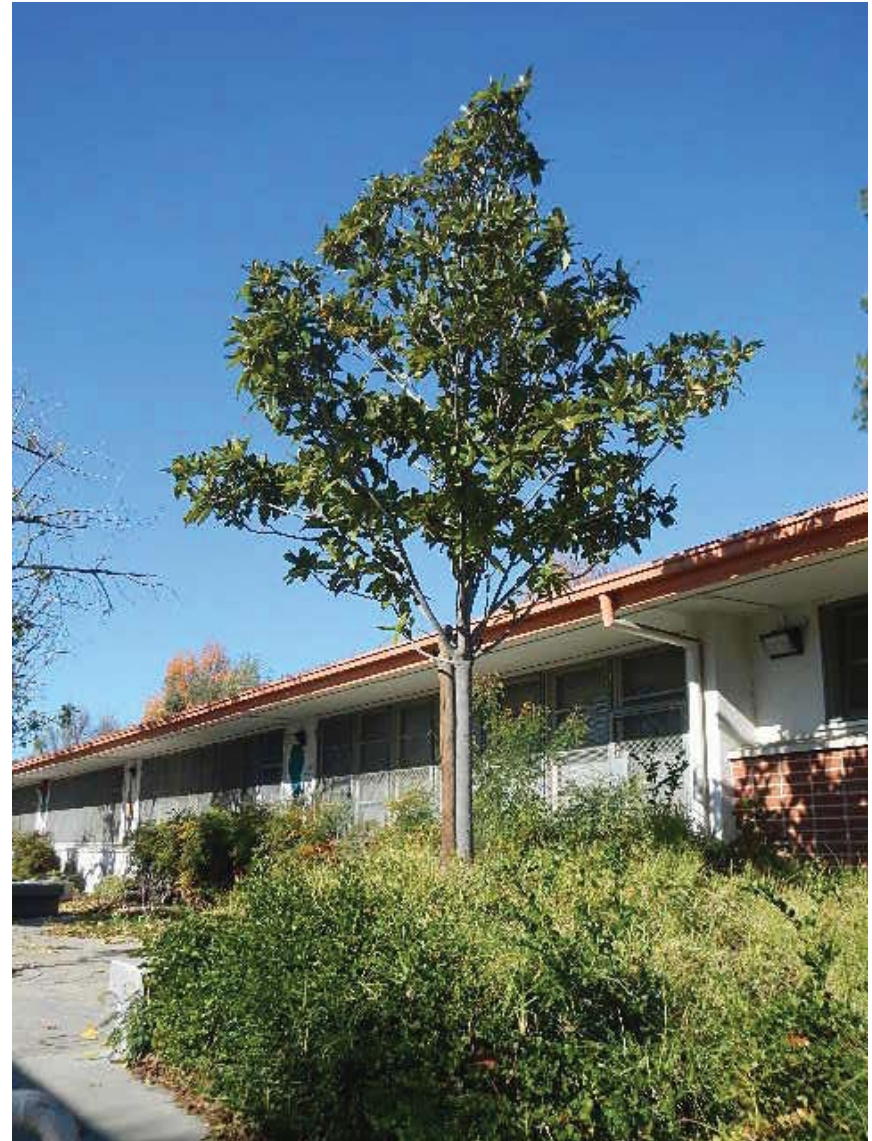
A. RESUME - GREGORY W. APPLGATE, ASCA, ASLA

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



#1 Canary Island pine



#2 Southern magnolia



#3 Bottlebrush standard



#5, 4 & 6 Brisbane box (Tristania)



#7 & 8 Sweetgum (back to front)



#9 Sweet gum



#10 Evergreen pear



#11, 12 & 14 Northern catalpas



Canopy of #12 catalpa identifying showing pods.



#13 Brazil pepper



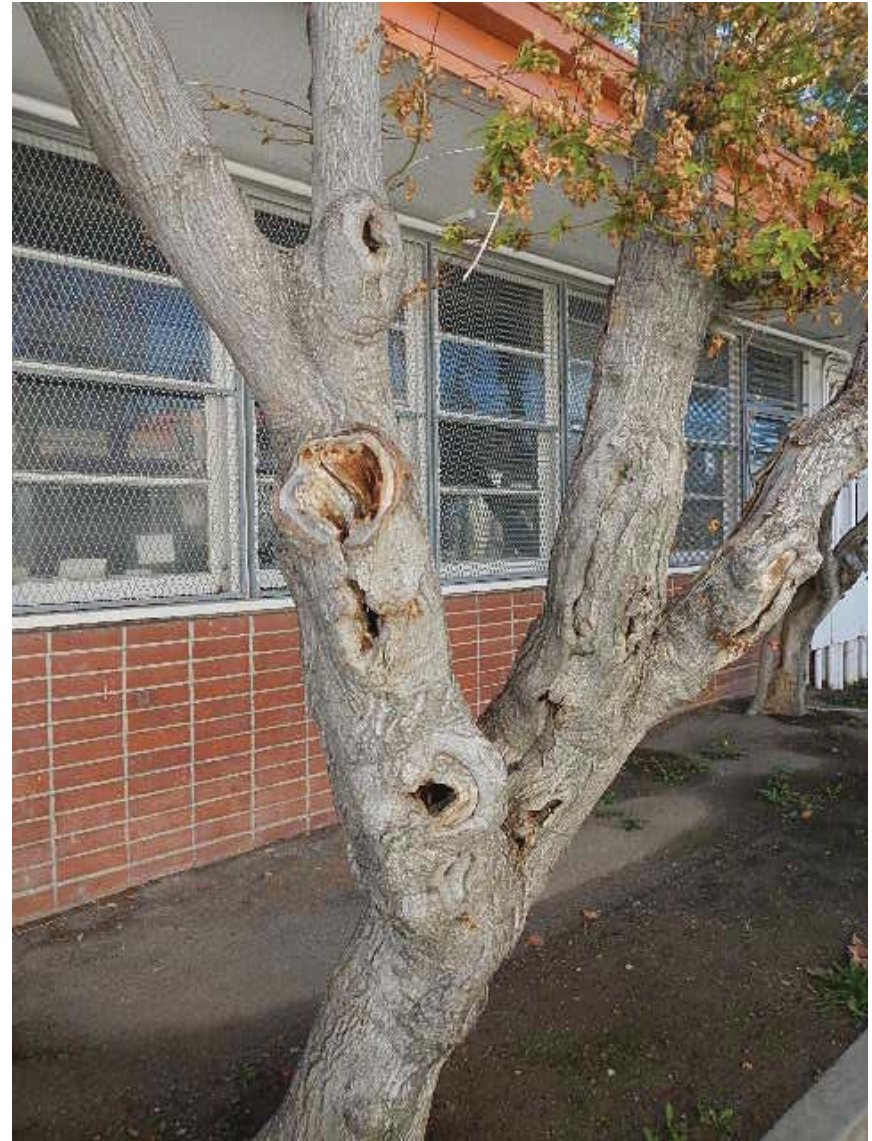
#15 Octopus tree



#16 Canary Island pine



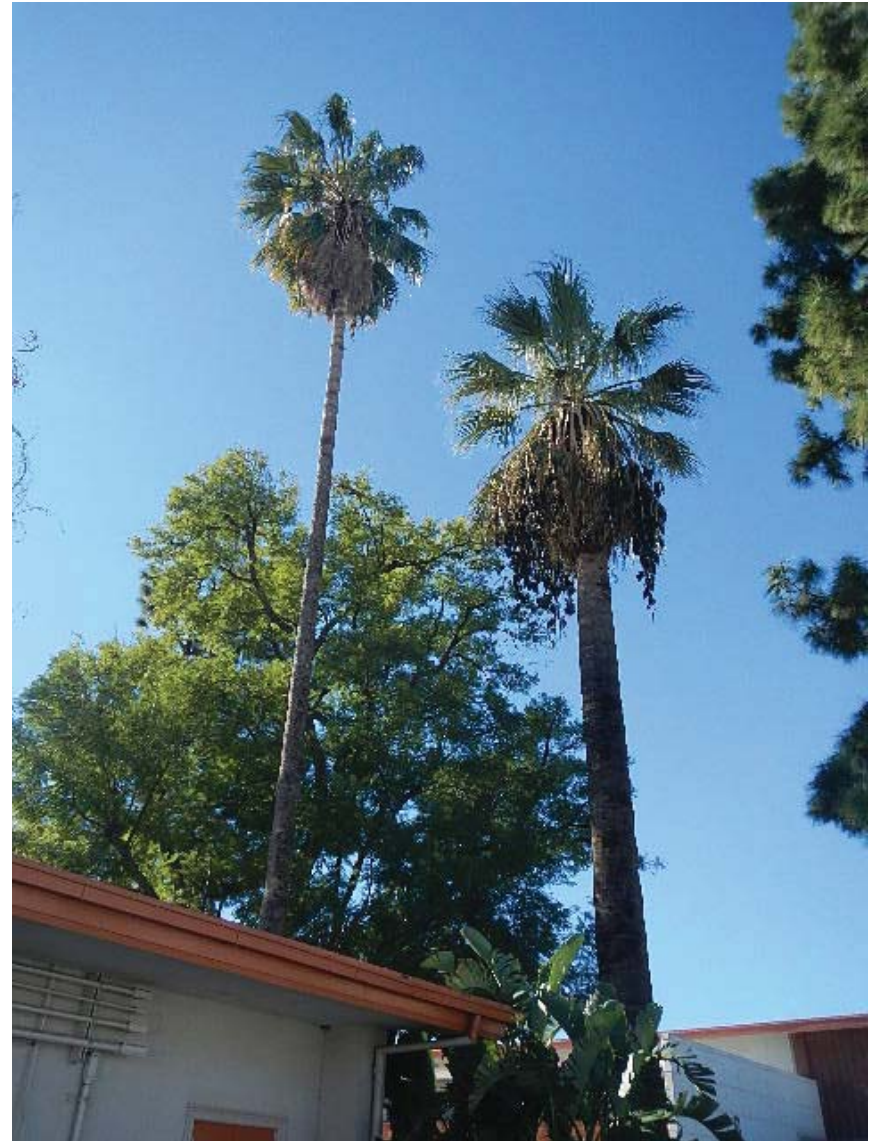
#17 & 18 Japanese maples



#17 & 18 trunk decay.



#19 Hybrid fan palm (*Washingtonia robusta* & *filifera*)



#20 Mexican fan palm (at left)



#21 Jacarada



#23 London plane tree – note heading



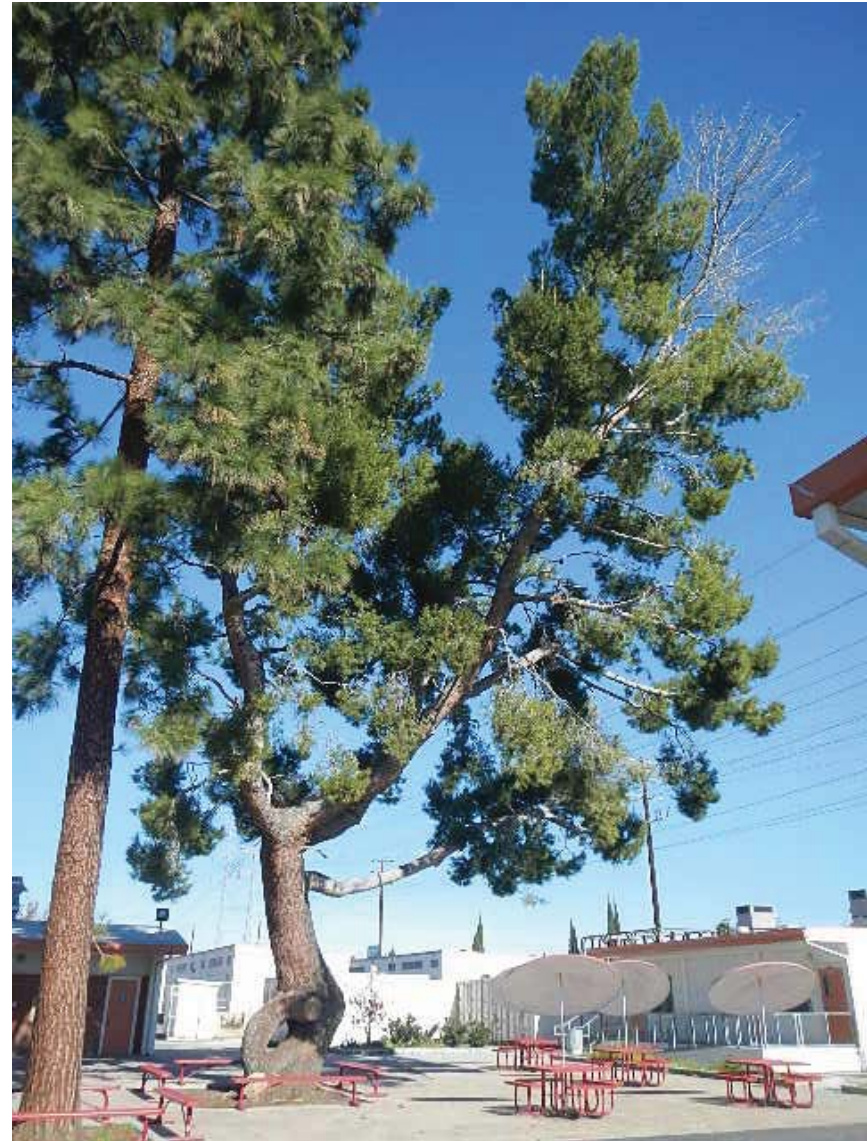
#22 Canary Island pine



#24 Redbud



#25 Aleppo pine – note basal decay and imbedded crossing trunk



#25 overall picture of Aleppo pine showing dead top.



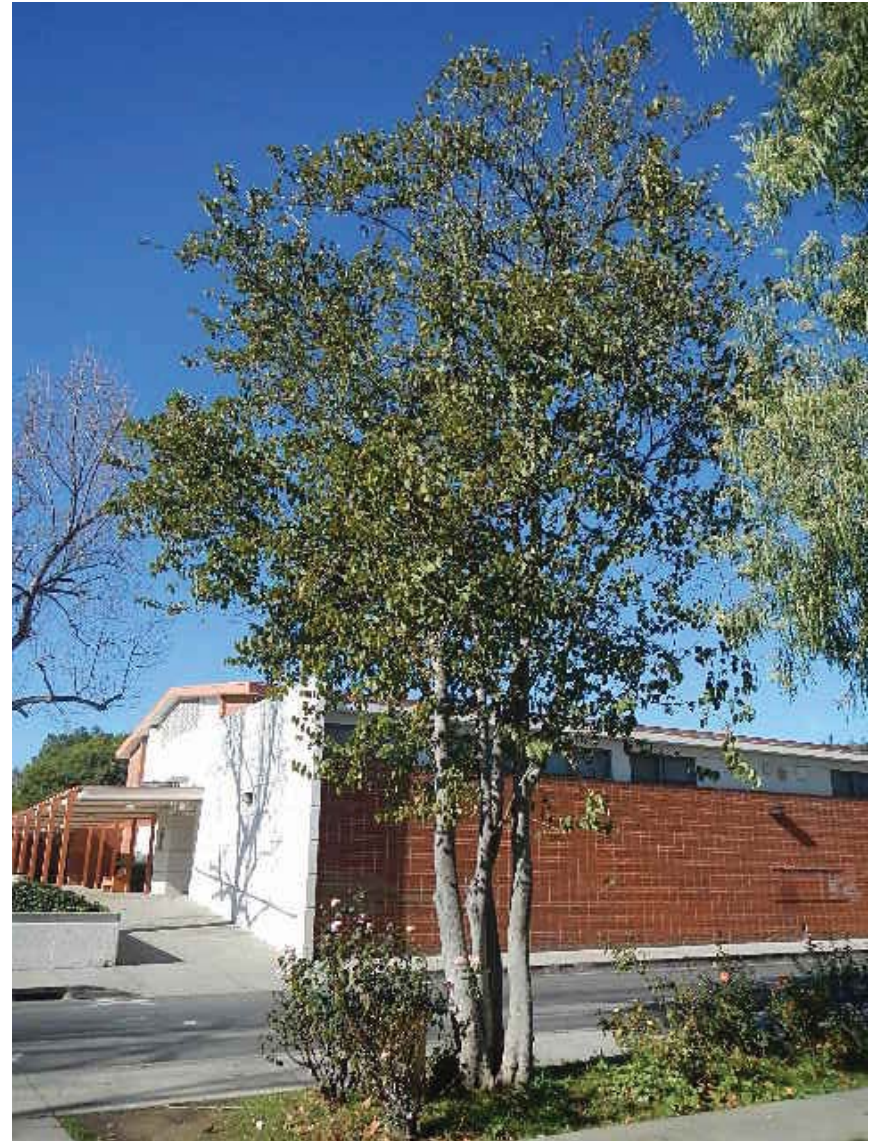
#26 Canary Island pine



#27 Dying kumquat



#29 Australian willow



#28 Orchid tree



Citrus grove from the west



Citrus grove from the north



Citrus grove from the east



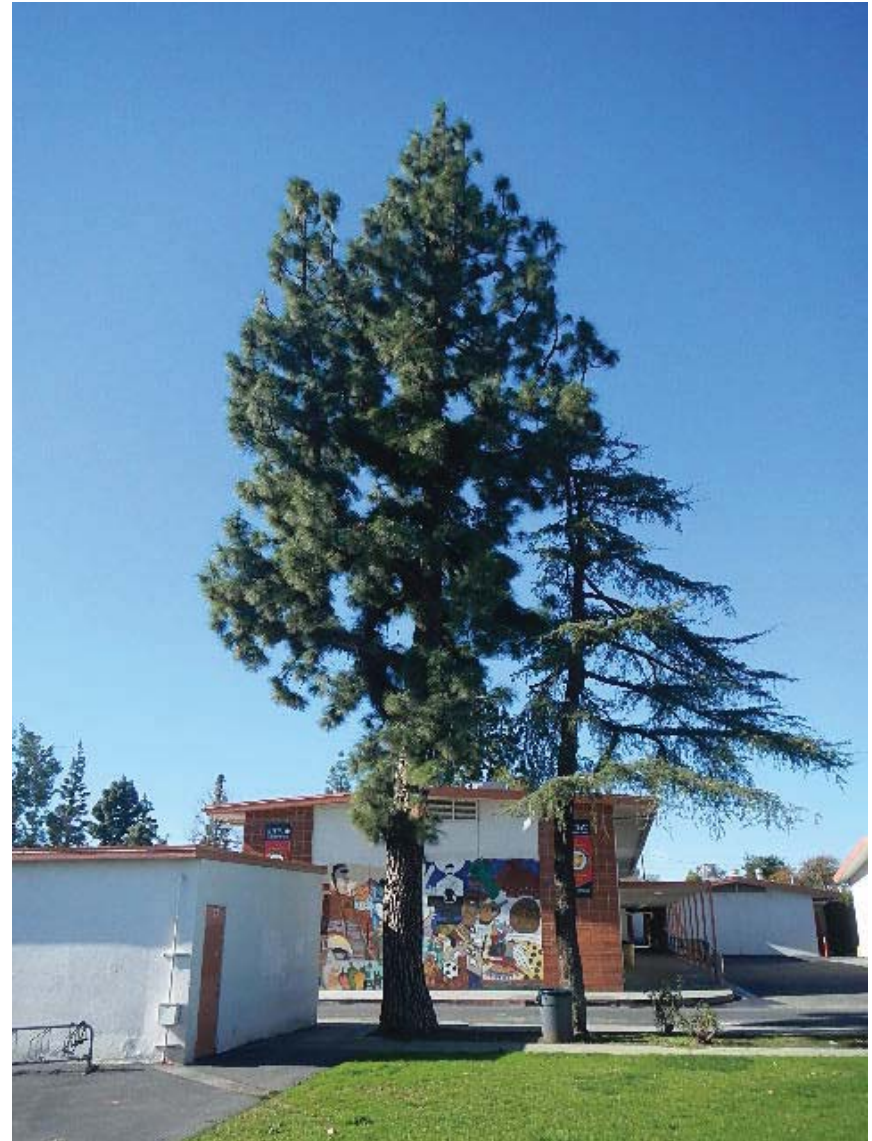
#47 Crape myrtle



#54 London plane tree



#55 Italian stone pine



#56 Deodar cedar and #57 Canary Island pine.



#58 Fig tree being covered by passion vine.



#59 Tree of heaven covered by passion vine.



#60 London plane tree



#61 Aleppo pine – note topped stem on left.



#61 Aleppo pine on right. #63 Aleppo pine at left foreground, and #64 Aleppo pine at left background.



#62 Coast redwood

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.

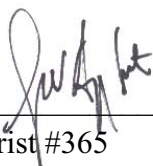
That I have no present or prospective interest in the vegetation that is the subject of this report, and I have no personal interest or bias with respect to the parties involved.

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 1/11/2017

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 and 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 4½ 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 crown 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.

Tree Map (attached)

Appendix C

Character-Defining Features Memorandum



Memorandum

TO: Gwenn Godek, Contract Professional/CEQA Advisor, Los Angeles Unified School District (LAUSD) **DATE:** July 30, 2015
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 GROVER CLEVELAND HIGH SCHOOL, 8140 VANALDEN AVENUE, RESEDA, CA 91335**

INTRODUCTION

PCR Services Corporation (“PCR”) appreciates the opportunity to prepare Character-Defining Features Memorandum (“CDFM”) for Grover Cleveland High School (“Cleveland HS”) located at 8140 Vanalden Avenue, Reseda, Los Angeles County, California. Constructed between 1957 and 1958, Cleveland 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 Cleveland 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 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 in May 2015 photography to document the existing conditions of the subject property. PCR utilized the survey methodology of the State Office of Historic Preservation (“OHP”).

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.*

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- 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 2014 Historic Resources Inventory (HRI) Survey, Cleveland HS campus core appears was found eligible as a historic district under the National Register and California Register Criteria A/1 and C/3, in the context of institutional architecture/educational facilities in Los Angeles and as an excellent example of Mid-Century Modern style applied to institutional architecture.⁵

HISTORIC OVERVIEW

The first plans for Cleveland HS were drawn by Charles O. Matcham, Stewart S. Granger and Associates, Architects and Engineers, in December of 1957.⁶ The school was constructed on an irregularly shaped lot, with the majority of the school buildings located at the north end of the property. The school was laid out in essentially a finger plan, with a main arcade serving as the primary artery connecting a series of buildings on either side of it. The wider southern end of the lot was primarily devoted to outdoor sporting activities, including tennis courts, a baseball field, girls’ play field, play courts, and football field.⁷ Cleveland HS was constructed in phases, spreading the construction of the buildings around the arcade out over several years, into the late 1960s.⁸ The first phase, circa 1957 to 1958, involved the site plan and layout of the entire

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., DPR Form: Cleveland Senior High School, Prepared for LAUSD (January 29, 2014).

⁶ Charles O. Matcham appears to have worked as the lead designer on the project.

⁷ 8590.03.000 December 1, 1957, New Plant – Phase 1

⁸ 8590.04.000 April 1, 1958 Building “L”, Building “M” & Building “N”

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campus and the design of the primary classroom buildings fronting Vanalden Avenue and Cantara Street, including Buildings 1,2, 3, 4, 5, 6, 7, 8 and 16.⁹ In April 1958 the second phase of plans were prepared detailing the All-Purpose Building 14 and Classroom Buildings 16, 17, 18 and 20.¹⁰ The third phase of school design was detailed on architectural drawings prepared on July 1958 for the Physical Education Building 21, Building 11 and Building 13 located on the outskirts of the campus.

A fire in the early 1980s required repairs to the Administrative Building (Building 6).¹¹ In 1988 Gensler and Associates/Architects designed a new community indoor swimming pool.¹² In the aftermath of the 1994 Northridge Earthquake, a number of measures were taken to stabilize and repair various school buildings in 1995 and 1996. Structural changes were made to the portable buildings, earthquake repair occurred throughout the campus, including the Physical Education Building (Building 21), arcades, multiple classroom buildings, the Greenhouse, Student Store (Building 15), Cafeteria (Building 14), and Administrative Building (Building 6). Repairs were also made to the hardscape and athletic fields. As part of this work, the Agricultural Shed was demolished.¹³ Some small alterations occurred on the campus in the 21st century, with a new Media Academy Studio (Building 18) designed by architect Richard Berliner in 2000 was added within Building 18 extensively remodeling the interior.¹⁴ Additionally, eleven new modular buildings were constructed on campus in 2002.¹⁵

8590.05.000 July 1, 1958 Building "H", Lath House, Green House, Building "J", Building "K", Student Store & Physical Education

8590.VG.470 January 16, 1962 Type Classroom Buildings (Building AA-2366)

8590.VG.488 July 1, 1964 Building "O" (Two Story Frame & Stucco Building)

8590.06.000 October 30, 1967 Building "P"

⁹ 8590.03.000 December 1, 1957, New Plant - Phase 1

¹⁰ 8590.04.000 April 1, 1958 Building "L", Building "M" & Building "N"

¹¹ 8590.02.002 December 1, 1979 Fire Damage Repairs to Building AA-2730 (Aliso Continuation School)

8590.09.000 August 1, 1984 Fire Damage Repairs to Administration Building

¹² 8590.10.000 May 13, 1988 Community Indoor Swimming Pool

¹³ 8590.11.000 January 1, 1995 Structural Corrective Measures to Relocatable Classroom Buildings

8590.12.000 January 6, 1995 Earthquake Repairs to Various Buildings (Portion I)

8590.14.000 June 12, 1995 Earthquake Repair of Hardscape, Athletic Fields & Surrounding Areas (Portion II)

8590.13.000 February 8, 1996 Earthquake Repair of Physical Education Building (Portion III)

8590.15.000 March 22, 1996 Earthquake Repair of Arcades, Classroom, Greenhouse, Demolition of Agricultural Shed & New Concrete Slab

8590.16.000 September 6, 1996 Earthquake Dam/Rep Multi/Cafe/LS/ST STR (Portion II)

¹⁴ 8590.23.000 November 15, 2000 Proposed New Media Academy Studio

¹⁵ 8590.00.024 March 27, 2002 Grading & Paving - Ground Improvements for 11 New Modular Buildings

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CHARACTER-DEFINING FEATURES ANALYSIS

The character-defining features analysis presented below is a detailed summary of the visual character of Cleveland HS, including the site plan, landscape, buildings, architectural details, materials, finishes and interior spaces, which contribute to the eligibility of Cleveland 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 features, as well as the various aspects of its site and environment.”¹⁶ 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.”¹⁷ 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 Cleveland 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 (Cleveland HS) and are the most important features to retain. Alterations to significant buildings and landscapes shall be avoided.¹⁸ 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

¹⁶ 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.

¹⁷ 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.

¹⁸ Should a significant landscape or building require alteration further historic review will be required under CEQA law.

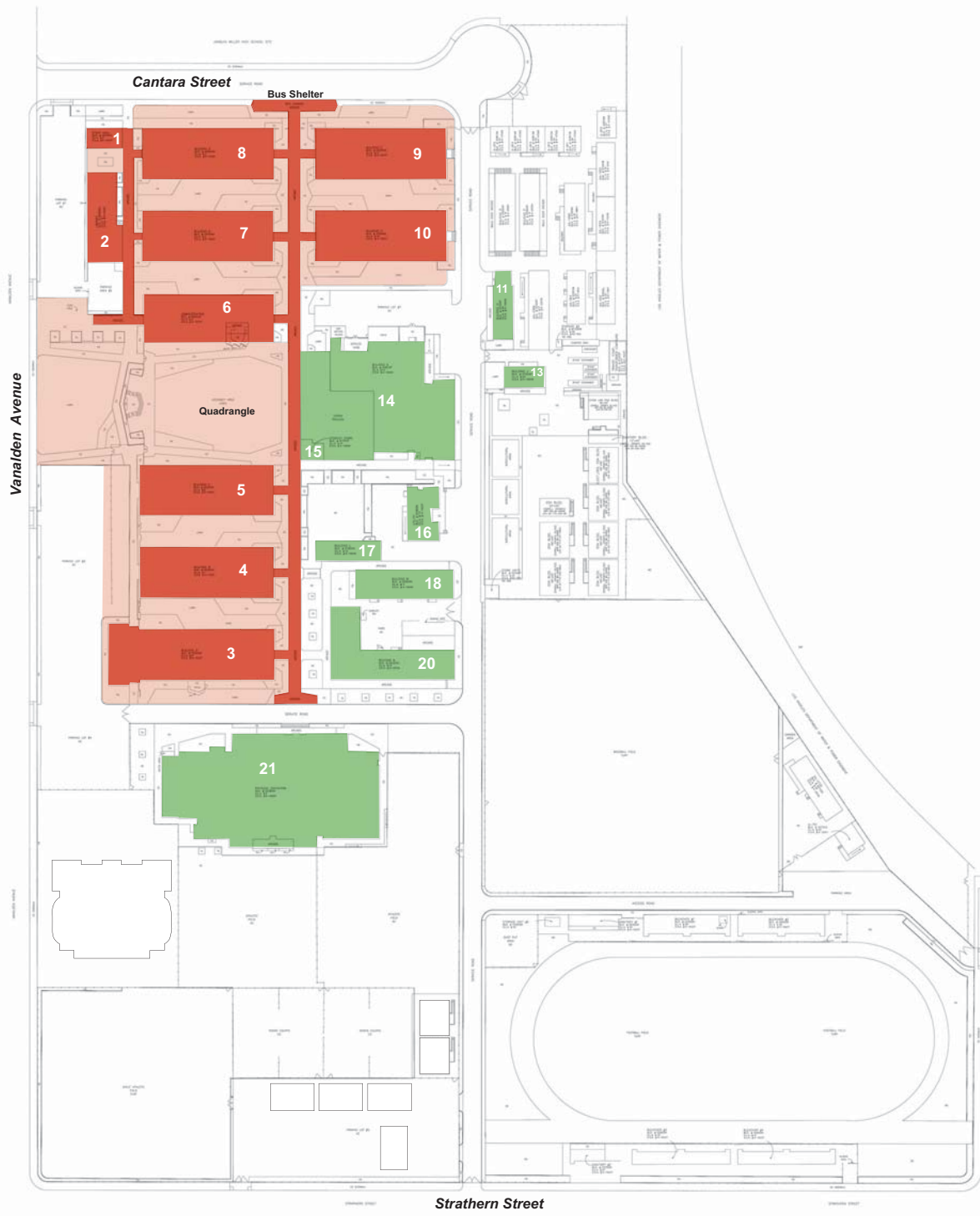
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greatest extent feasible and rehabilitated as appropriate; however, more flexibility is given to these buildings and landscapes and alterations or removal of these contributing features may not adversely impact the subject school's significance. The 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 Cleveland HS dating from the period of significance that account for its eligibility as a historical resource. The primary period of significance for Cleveland HS is the first phase of campus design completed between 1957 and 1958 when the campus site plan, layout, and primary classroom buildings was designed in the Mid-Century Modern style by Charles O. Matcham, Stewart S. Granger and Associates, Architects and Engineers. Significant character-defining buildings and landscapes represent the original period of significance, are visually prominent, and retain high integrity. Furthermore, the significant landscapes and buildings on the Cleveland HS campus listed below were designed during the first planning phase, connected to the two primary north-south arcades, and represent the Mid-Century approach to campus design. While contributing character-defining buildings and landscapes retain moderate integrity or may fall outside of the primary period of significance. The buildings listed as contributing (secondary) were designed during the second and third planning phase, located on the perimeter of the primary campus plan, have extensively remodeled interiors, or have been structurally retrofit. 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 1, on the following page, visually depicts the character-defining buildings and landscapes of Cleveland HS.



- Significant (Primary) Building
- Significant (Primary) Landscape
- Contributing (Secondary) Building
- Non-Contributing Building and Landscape



**Character-Defining Features Analysis
Cleveland High School**
East Village Mixed Use Project
Source: Los Angeles Unified School District, 2002; PCR Services Corporation, 2016.

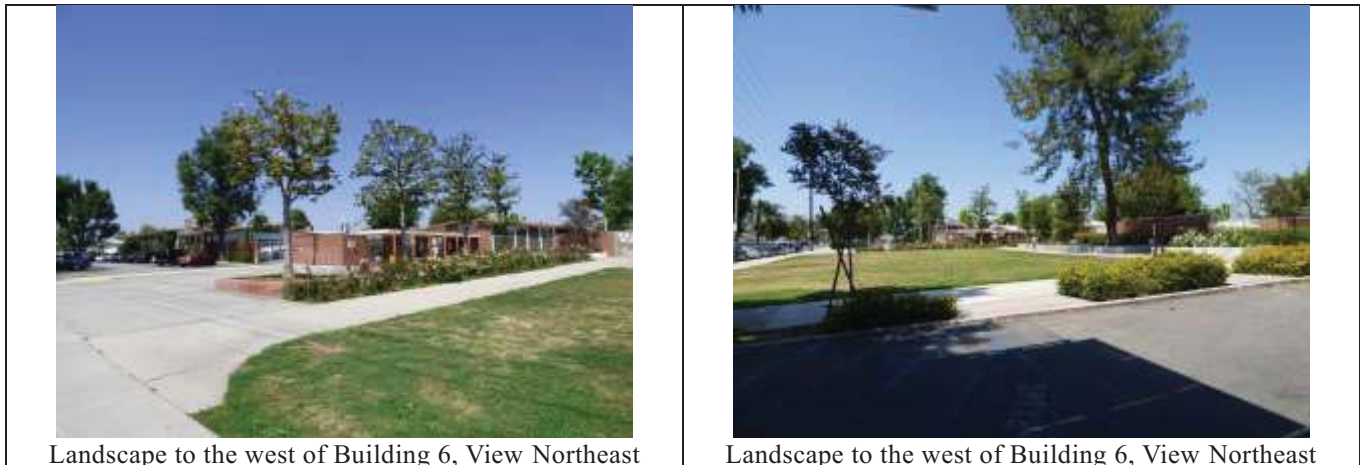
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Significant (Primary): Site Plan and Landscape

- Combination finger-and-cluster plan school, with axial, double-loaded classroom wings grouped around shared courtyard spaces (*alteration, hardscape within courtyards has been replaced and modernized*) and a central quad. Classroom buildings are arranged in two primary rows and linked together by arcades.
- Two north-south arcades linking classroom buildings characterized by a stucco clad shelter supported on steel, spider-leg supports (along the central lawn, the arcade is supported on thick, brick-clad piers)
- Open grass lawn, hardscape and brick planters with benches at the school entrance in front of (to the west of Building 6) along Vanalden Street (*alteration, new concrete planters have been constructed to the south*)
- Open landscape fronting Cantara Street including the Mid-Century Modern style bus shelter located in the bus drop-off/pick-up area
- Central quad to the west of Building 14 between Buildings 6 and 5 includes grass lawn, two brick trapezoidal-shaped planters at eastern end, hardscape, and raised concrete platform in front of tall brick wall at the western end
- Brick fences around the perimeter of the property interrupted in sections by decorative grillwork and gates (*alteration, because of material failure some section of brick have been replaced in-kind*)

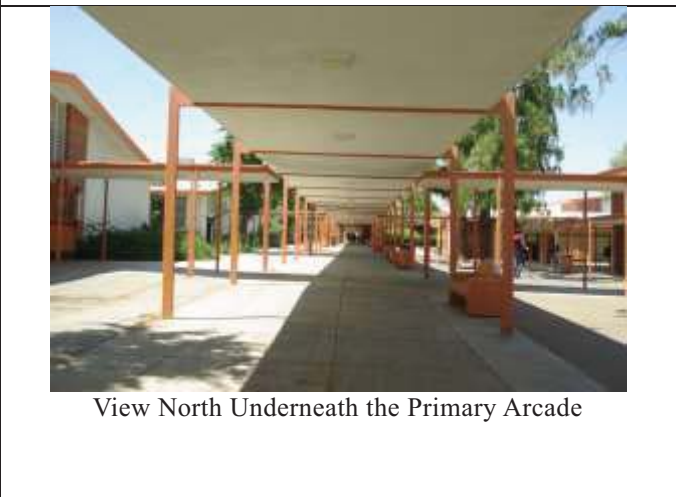
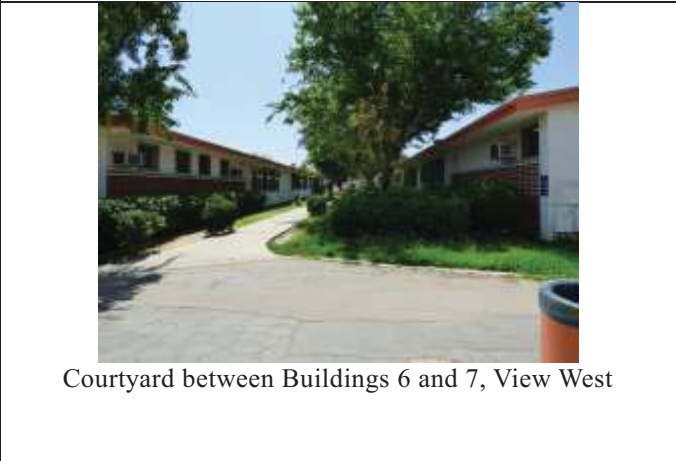
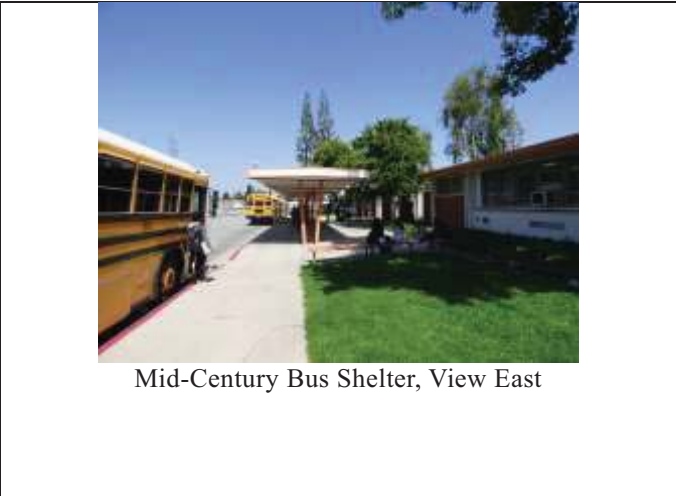
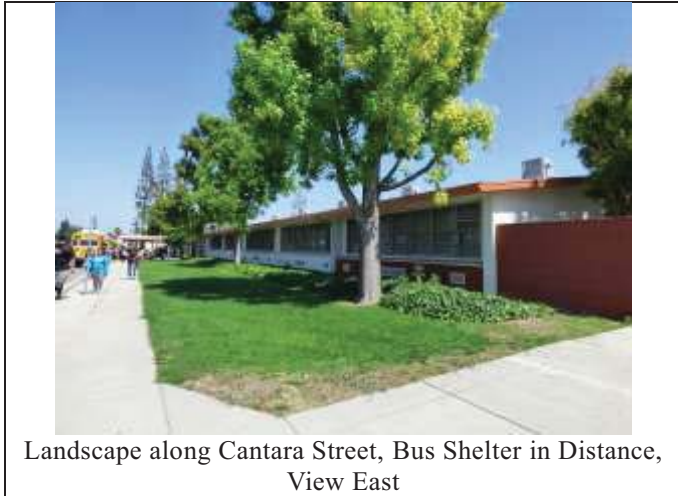


Landscape to the west of Building 6, View Northeast

Landscape to the west of Building 6, View Northeast

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Significant (Primary): Classroom Building 1

- One-story, rectangular plan
- Concrete foundation and wood frame
- Low-pitch, gabled roof
- Exterior walls sheathed with brick and stucco
- Entrances into buildings at gable ends flanked by floor-to-ceiling panels of brick
- 2-over-2 sash windows grouped in rows (*alteration, covered with security screens*)
- Single metal doors
- Square, brick planter in front of south elevation
- Brick rectangular planter in courtyard to the south of the primary (south) elevation



Classroom Building 1, South Elevation of Building 1,
View North



Classroom Building 1, North and East Elevation,
View Southwest

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Significant (Primary): Library Building 2

- One-story, rectangular plan
- Concrete foundation and wood frame
- Low-pitch, gabled roof
- Horizontal gable vents at roof apex
- Exterior walls sheathed with brick and stucco
- Varied roof heights
- 2-over-2 sash windows grouped in rows (*alteration, covered with security screens*)
- Clerestory wood-framed windows
- Metal frame of arcade attached to east elevation
- Planting beds in front of east elevations
- Paired metal doors



Library Building 2, East Elevation, View West



Library Building 2, East Elevation, View Southwest

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Library Building 2, North Elevation, View South



Library Building 2, South and West Elevation,
View Northeast



Library Building 2, South Elevation, View North



Library Building 2, Interior, View Northwest

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Significant (Primary): Classroom Building 3

- One-story, rectangular plan
- Concrete foundation and wood frame
- Low-pitch, side-gabled roof at west end and flat roof
- 2-over-2 sash windows grouped in rows (*alteration, covered with security screens and some windows infilled with AC equipment*)
- Bay of horizontal wall vents
- Paired metal doors, some glazed
- Exterior walls sheathed with brick and stucco
- Brick walls extending from south elevation
- Enclosed patio with brick walls attached to south elevation
- Interior: Circulation plan



Classroom Building 3, South Elevation, View Northeast



Classroom Building 3, West Elevation, View East



Classroom Building 3, Interior



Classroom Building 3, North Elevation, View Southwest

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Significant (Primary): Administrative Building 6

- One-story, rectangular plan
- Concrete foundation and wood frame
- Low-pitch, front-gabled roof
- Horizontal gable vents at roof apex
- Roof extensions beyond the side elevations (north and south)
- Exterior walls sheathed with brick and stucco
- Principal entrance to school located on east façade underneath an arcade
- Arcade extending over the primary entrance to the west
- Wood-framed, full-height and 2-over-2 sash windows
- Paired metal doors, some glazed
- Interior: circulation plan, glazed wood and flat panel wood doors, baseboards, glazing, display cases, brick accent walls (*alteration, flooring replaced*), atrium on south elevation enclosed by a zig-zag brick wall



Administrative Building 6, Primary (West) Elevation, View East



Administrative Building 6, South Elevation, View North

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Administrative Building 6, East Elevation, View West



Administrative Building 6, North Elevation, View Southwest



Administrative Building 6, Corridor, View East



Administrative Building 6, Atrium, View South

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Significant (Primary): Classroom Buildings 7 to 10, 4 to 5

- One-story, rectangular plan
- Concrete foundation and wood frame
- Low-pitch, front-gabled roof
- Horizontal gable vents at roof apex
- Exterior walls sheathed with brick and stucco
- Entrances into buildings at gable ends flanked by floor-to-ceiling panels of brick
- Building entrance covered by east-west arcades that connect to main north-south axial arcade
- 2-over-2 sash windows grouped in rows (*alteration, covered with security screens and some windows infilled with AC equipment*)
- 2-light hopper windows (*alteration, covered with security screens*)
- Paired metal doors, some glazed



Classroom Buildings 7 to 10, View Northwest



West & South Elevations of Building 10,
View Northeast



Buildings 4 to 5, View Northeast



North & East Elevations of Building 5, View South West

Memorandum

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Contributing (Secondary): Building 11

- One-story, rectangular plan
- Garage wing attached to north elevation
- Concrete foundation and wood frame
- Low-pitch, gabled roof with varying heights
- Horizontal vent at gable apex
- Clerestory windows grouped in rows (*alteration, covered with security screens*)
- Single metal doors
- Exterior walls sheathed with brick and stucco



Building 11, West and South Elevations, View East



Building 11, West and North Elevations, View East

Memorandum

RE: CDFM FOR CLEVELAND HIGH SCHOOL



Contributing (Secondary): Building 13

- One-story, rectangular plan
- Concrete foundation and wood frame
- Low-pitch, gabled roof
- Horizontal vent at gable apex
- 2-over-2 sash and clerestory windows grouped in rows (*alteration, covered with security screens*)
- Single metal doors
- Exterior walls sheathed with brick and stucco



Building 13, West and South Elevations, View East



Building 13, West and North Elevations, View East

Memorandum

RE: CDFM FOR CLEVELAND HIGH SCHOOL



Contributing (Secondary): Multi-Purpose Building 14 and Student Store Building 15

- Two-story, irregular plan
- Concrete foundation and wood-frame
- Low-pitch, gabled and flat roofs
- Horizontal gable vents at roof apex
- Varied roof heights
- Exterior walls sheathed with brick and stucco
- Clerestory wood-framed windows
- Paired metal doors
- Lunch area covered by a cover supported by square steel columns and large rectangular brick piers around the perimeter
- Lunch service window openings underneath cover
- *Alteration, interior appears updated*



Multi-Purpose Building 14, North and East Elevation,
View Southwest



Multi-Purpose Building 14, Underneath Canopy,
View Northeast

Memorandum

RE: CDFM FOR CLEVELAND HIGH SCHOOL



Multi-Purpose Building 14, South and East Elevation,
View Northwest



Multi-Purpose Building 14, South Elevation,
View Northeast



Multi-Purpose Building 14, Interior of Multi-Purposed
Building



Multi-Purpose Building 14, Interior of Multi-Purposed
Building

Memorandum

RE: CDFM FOR CLEVELAND HIGH SCHOOL



Contributing (Secondary): Classroom Building 18

- Two-story, rectangular plan
- Concrete foundation and wood frame
- Low-pitch, gabled roof
- Horizontal gable vents at roof apex
- Awning windows grouped in rows
- Single and paired Metal doors
- Exterior walls sheathed with brick (at corners) and stucco
- Canopy along north elevation supported by steel columns



Classroom Building 18, East and North Elevation,
View West



Classroom Building 18, East and South Elevation,
View West

Memorandum

RE: CDFM FOR CLEVELAND HIGH SCHOOL



Contributing (Secondary): Building 16

- One-story, rectangular plan
- Concrete foundation and wood frame
- Low-pitch, gabled roof
- Horizontal gable vents at roof apex.
- Wide, central recessed entrance bay
- Concrete podium in front of east elevation
- 2-over-1 windows grouped in rows (*alteration, covered with security screens and some windows infilled with AC equipment*)
- Single and paired metal doors
- Exterior walls sheathed with stucco



Building 18, East Elevation, View West



Building 18, North and East Elevation, View Southwest

Memorandum

RE: CDFM FOR CLEVELAND HIGH SCHOOL



Contributing (Secondary): Building 17

- One-story, rectangular plan
- Concrete foundation and wood frame
- Low-pitch, gabled roof
- 2-over-2 sash windows grouped in rows (*alteration, covered with security screens*)
- Single and paired metal doors
- Exterior walls sheathed with brick and stucco



Building 17, North Elevation, View South



Building 17, South and West Elevation, View Northeast

Memorandum

RE: CDFM FOR CLEVELAND HIGH SCHOOL



Contributing (Secondary): Classroom Building 20

- Two-story, L-shaped plan
- Concrete foundation and wood frame
- Low-pitch, gabled roof
- Horizontal gable vents at roof apex
- Awning windows grouped in rows
- Paired and single metal doors
- Exterior walls sheathed with brick (at corners) and stucco
- Canopies wrapped around south and west elevations supported by steel columns



Classroom Building 20, East and North Elevation,
View Southwest



Classroom Building 20, East and South Elevation,
View Northwest



Classroom Building 20, West and South Elevation,
View Northeast



Classroom Building 20, North and West Elevations,
View East

Memorandum

RE: CDFM FOR CLEVELAND HIGH SCHOOL



Contributing (Secondary): Physical Education Building 21

- One and two-story, irregular plan
- Concrete foundation and wood frame
- Flat and low-pitch, side-gabled roof with varied heights
- Horizontal vents at apex of gables
- Exterior walls sheathed with brick, stucco, and blue mosaic tiles
- Primary entrance within one-story wing attached to north elevation underneath arcade support by steel square supports
- Brick planters in front of primary elevation flanking concrete stairs to entrance
- Clerestory wood-framed windows
- Paired metal doors and single-light transoms
- Covered outdoor lunch area supported by square steel columns



Physical Education Building 21, Primary (North) Elevation, View Southeast



Physical Education Building 21, Primary (North) Elevation, View South



Physical Education Building 21, North Elevation, View Southwest



Physical Education Building 21, Rear (South) Elevation, View Northwest

Appendix D

Preliminary Geotechnical Report



Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

PRELIMINARY GEOTECHNICAL REPORT
Proposed Comprehensive Modernization Project
Cleveland High School
Los Angeles, California

Converse Project No. 15-31-171-01

July 22, 2015

Prepared For:

Los Angeles Unified School District
c/o Cleveland High School
8140 Vanalden Avenue
Los Angeles, California 91335

Prepared By:

Converse Consultants
222 East Huntington Drive, Suite 211
Monrovia, California 91016



Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

July 22, 2015

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

Subject: **PRELIMINARY GEOTECHNICAL REPORT**
Proposed Comprehensive Modernization Project
Cleveland High School
Los Angeles, California
Converse Project No. 15-31-171-01

Dear Mr. Moghadam:

Enclosed is the Preliminary Geotechnical Report prepared by Converse Consultants (Converse) for the proposed Comprehensive Modernization Project within the Cleveland High School Campus in Los Angeles, California.

The purpose of the study will be to generate a report for a school construction consistent with the current edition of California Building Code, Title 24, Chapter 16; Earthquake Design, Chapter 18A, Foundation and Retaining Wall; Appendix Chapter 33, Excavation and Grading. The following is a preliminary geotechnical report with limited field exploration and analysis. Since the plan dimension and exact location of the building footprints are not known at this time, our study is preliminary and limited to a geotechnical report. It will require further study and field exploration in order to meet DSA/CGS requirements. Our services were performed in accordance with our proposal dated May 8, 2015.

Based on our field exploration, laboratory testing, geologic evaluation and geotechnical analysis, the site is suitable from a geotechnical standpoint for the proposed Comprehensive Modernization Project located within the Cleveland High School Campus, provided our conclusions and recommendations are implemented during design and construction.

We appreciate the opportunity to be of continued service to Los Angeles Unified School District. If you should have any questions, please do not hesitate to contact us at (626) 930-1200.

CONVERSE CONSULTANTS

Siva K. Sivathasan, PhD, PE, GE, DGE, QSD, F. ASCE
Vice President/Principal Engineer

Dist: 5/Addressee



PROFESSIONAL CERTIFICATION

This report for the Proposed Comprehensive Modernization Project located within the Cleveland High School Campus in the City of Los Angeles, California, has been prepared by the staff of Converse under the professional supervision of the individuals whose seals and signatures appear hereon.

The findings, recommendations, specifications or professional opinions contained in this report were prepared in accordance with generally accepted professional engineering and engineering geologic principles and practice in this area of Southern California. There is no warranty, either expressed or implied.

In the event that changes to the property occur or additional relevant information about the property is brought to our attention, the conclusions contained in this report may not be valid unless these changes and additional relevant information are reviewed and the recommendations of this report are modified or verified in writing.



Mohammad Malim, EIT
Senior Staff Engineer



Mark B. Schluter, PG, CEG
Senior Engineering Geologist



Siva K. Sivathasan, PhD, PE, GE, DGE, QSD, F. ASCE
Vice President/Principal Engineer



EXECUTIVE SUMMARY

The following is the summary of our preliminary geohazard study, findings, conclusions, and recommendations, as presented in the body of this report. Please refer to the appropriate sections of the report for complete conclusions and recommendations. In the event of a conflict between this summary and the report, or an omission in the summary, the report shall prevail.

- The proposed project will consist of removing the existing structures and providing new permanent classroom buildings, cafeteria, lunch shelter, student store, multipurpose building, and library located at the existing Cleveland High School site at 8140 Vanalden Avenue in Los Angeles, California. The structural loads are not known at this time but are anticipated to be moderate. No subterranean basement level is planned at this time.
- Four (4) exploratory borings (BH-1 through BH-4) were drilled within the project site on June 16, 2015. The borings were advanced using a truck mounted drill rig with an 8-inch diameter hollow stem auger to a maximum depth of 51.5 feet below the existing ground surface (bgs).
- The earth materials encountered during our investigation consist of existing fill soils placed during previous site grading operations and natural alluvial soils to a maximum depth of 51.5 feet bgs. Undocumented fills, ranging from 2 to 5 feet in thickness were encountered in the borings. Deeper artificial fill may exist at the site. The fill encountered consists primarily of silty sand, clay and sandy clay. The alluvial soil deposits below the fill primarily consist of clay.
- Remedial grading consisting of over-excavation and compaction is required for the surficial soils to provide structural support.
- The upper five (5) feet of soils have a “Very Low” expansion potential. Mitigation for expansive soil may be necessary.
- During our exploration, groundwater was encountered at 14 and 24 feet below ground surface (bgs). The regional groundwater table is expected to be encountered during the planned construction.
- The project site is not located within a currently designated State of California Earthquake Fault Zone (formerly Alquist-Priolo Special Studies Zones) for surface fault rupture. The Alquist-Priolo Earthquake Fault Zoning Act requires the California Geological Survey to zone “active faults” within the State of California.
- As a result of the presence of the moderately stiff clayey soils encountered, it is concluded that the subject site is not considered susceptible to liquefaction.



- The pH and chloride content soluble sulfate values of the sample tested are in the “non-corrosive” range. The soluble sulfate values of the sample tested are in the “severe” range to concrete. The resistivity is in the “corrosive” range, to ferrous metals.
- The earth materials at the site are predominately sandy clay and clay. These material types should be excavatable with heavy-duty earth moving, drilling, and trenching equipment.
- Shallow spread and continuous footings are considered suitable for structure support provided the recommendations in this report are incorporated into the project plans, specifications, and are followed during site construction.

Results of our study indicate that the site is suitable from a geotechnical standpoint for the proposed development, provided that the recommendations contained in this report are incorporated into the design and construction of the project.

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APPENDICES

Appendix A	<i>Field Exploration</i>
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1.0 INTRODUCTION

This report contains the findings and recommendations of our preliminary geohazard study performed at the site of the proposed Comprehensive Modernization Project located within the Cleveland High School Campus, in Los Angeles, California, as shown on Drawing No. 1, *Site Location Map*.

The purpose of the study is to generate a report for a school construction, consistent with the current edition of California Building Code, Title 24, Chapter 16; Earthquake Design, Chapter 18A, Foundation and Retaining Wall; Appendix Chapter 33, Excavation and Grading. The following is a preliminary geohazard report with limited field exploration and analysis. Since the plan dimension and exact location of the building footprints are not known at this time, our study is preliminary and limited to geohazard report. It will require further study and field exploration in order to meet DSA/CGS requirements.

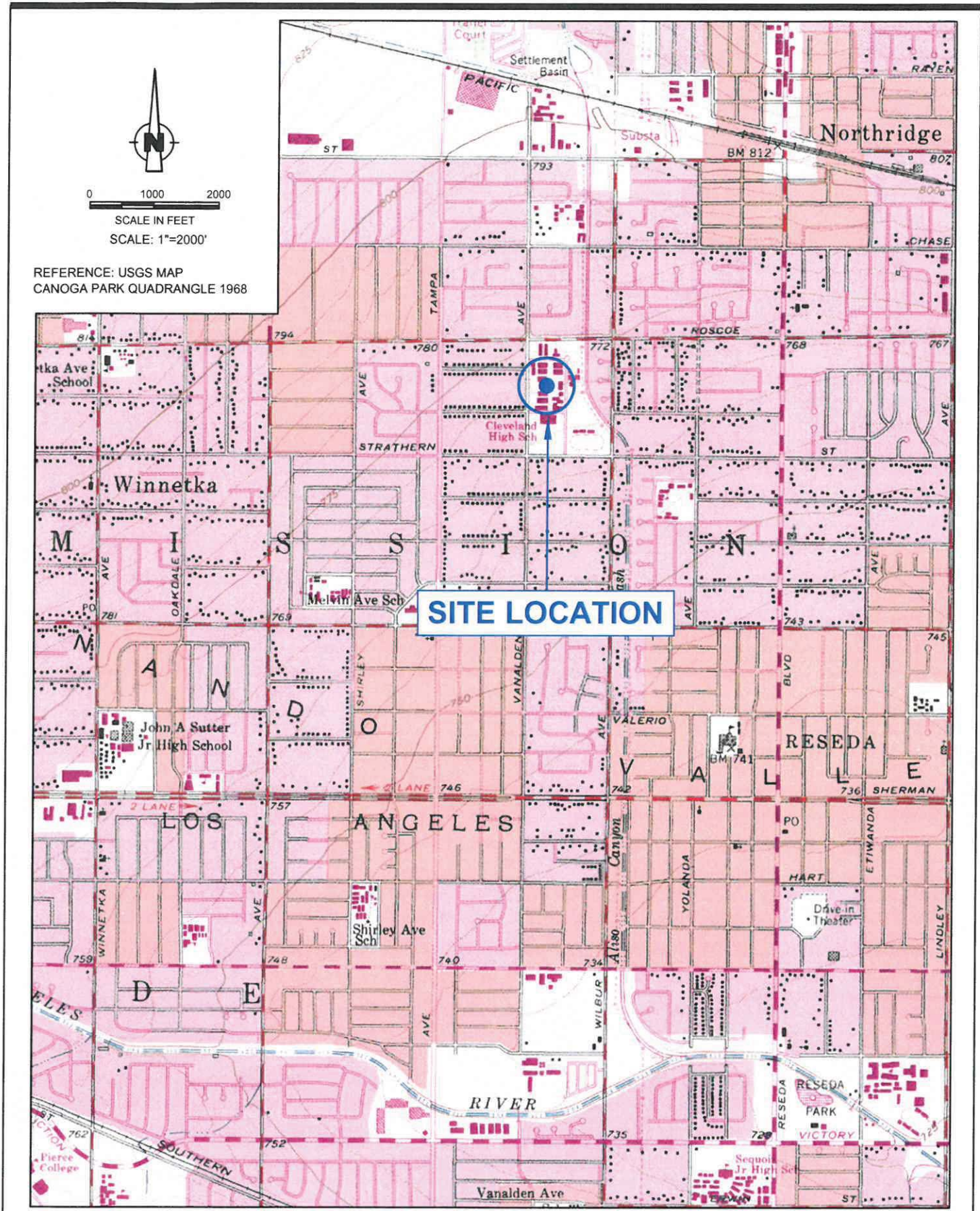
This report is written for the project described herein and is intended for use solely by Los Angeles Unified School District, Cleveland High School and their design team. It should not be used as a bidding document but may be made available to the potential contractors for information on factual data only. For bidding purposes, the contractors should be responsible for making their own interpretation of the data contained in this report.

2.0 SITE AND PROJECT DESCRIPTION

2.1 Site Description

The subject site is located at 8140 Vanalden Avenue in Los Angeles, California, and consists of an existing approximately 31-acre campus constructed in the 1950's. The proposed Comprehensive Modernization Project is planned to be within the campus of Cleveland High School in Los Angeles, California. The Comprehensive Modernization Project is planned to be situated within the campus, as shown on Drawing No. 1, *Site Location Map*. The subject site has surface elevations ranging from approximately 771 to 778 feet relative to mean-sea-level (MSL) respectively, with general surface gradients down toward the south.

The site coordinates for the proposed Comprehensive Modernization Project are: 34.2182 degrees North Latitude, 118.5481 degrees West Longitude. The site coordinates were centered on the subject site and used to calculate the earthquake ground motions. Review of the Engineering Geology and Seismology for Public Schools and Hospitals in California, dated August 9, 2005 (page 35) indicates that accuracy to within a few hundred meters of these coordinates is sufficient for the computation of the earthquake ground motion of the project site.



SITE LOCATION MAP



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PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
 CLEVELAND HIGH SCHOOL
 LOS ANGELES, CALIFORNIA
 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No.
 15-31-171-01

Drawing No.
 1

2.2 Project Description

The proposed project will consist of removing the existing structures and providing new permanent classroom buildings, cafeteria, lunch shelter, student store, multipurpose building, and library located at the existing Cleveland High School site at 8140 Vanalden Avenue in Los Angeles, California. The structural loads are not known at this time but are anticipated to be moderate. The structure is planned to be founded on shallow foundations or concrete mat foundations. The project site is shown on Drawing No. 2, *Site Plan and Approximate Boring Location Map*.

3.0 SCOPE OF WORK

Our scope of work consists of the tasks described in the following subsections.

3.1 Site Reconnaissance

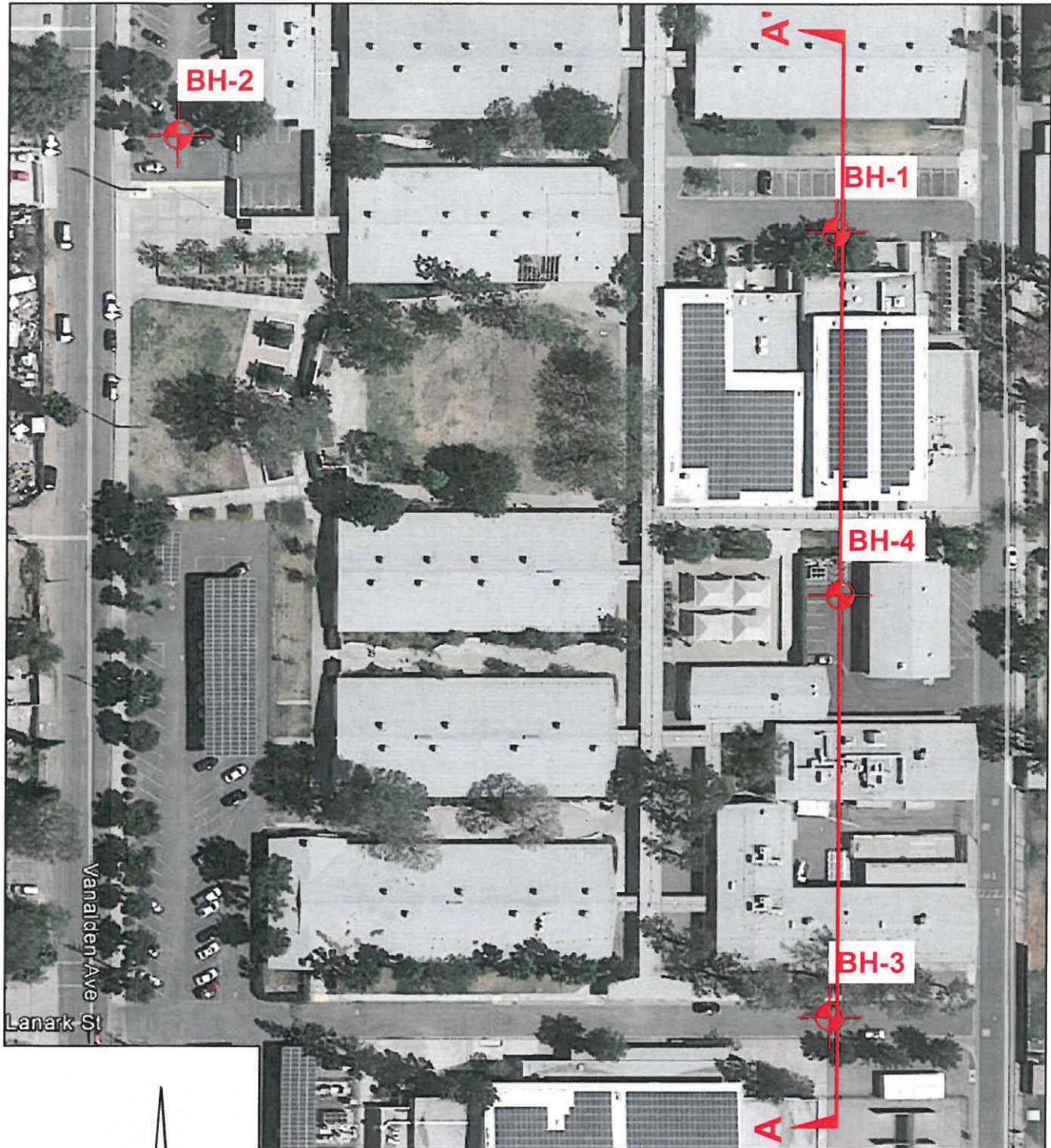
Our field exploration included a site reconnaissance by a member of the Converse staff on June 11, 2015. The purpose of the site reconnaissance was to observe surface conditions and to mark exploratory boring locations based on a proposed boring location map provided to our office via email.

3.2 Subsurface Exploration

Four (4) exploratory borings (BH-1 through BH-4) were drilled within the project site on June 16, 2015. The borings were advanced using a truck mounted drill rig with an 8-inch diameter hollow stem auger to a maximum depth of 51.5 feet below the existing ground surface (bgs). Each boring was visually logged by a Converse geologist and sampled at regular intervals and at changes in subsurface soils. Detailed descriptions of the field exploration and sampling program are presented in Appendix A, *Field Exploration*.

California Modified Sampler (Ring samples), Standard Penetration Test samples, and bulk soil samples were obtained for laboratory testing. Standard Penetration Tests (SPTs) were performed in selected borings at selected intervals using a standard (1.4 inches inside diameter and 2.0 inches outside diameter) split-barrel sampler. The bore holes were backfilled and compacted with soil cuttings by reverse spinning of the auger following the completion of drilling.

The approximate locations of the exploratory borings are shown in Drawing No. 2, *Site Plan and Approximate Boring Location Map*. For a description of the field exploration and sampling program see Appendix A, *Field Exploration*.



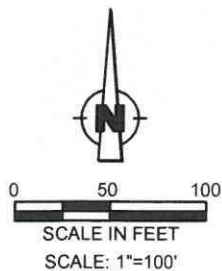
LEGEND



APPROXIMATE LOCATION OF BORING



GEOLOGIC CROSS SECTION



SITE PLAN AND APPROXIMATE BORING LOCATION MAP

PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
 CLEVELAND HIGH SCHOOL
 LOS ANGELES, CALIFORNIA
 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No.

15-31-171-01

Drawing No.

2



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3.3 Laboratory Testing

Representative samples of the site soils were tested in the laboratory to aid in the classification and to evaluate relevant engineering properties. The tests performed included:

- In situ moisture contents and dry densities (ASTM Standard D2216)
- Percent finer than Sieve No. 200 (ASTM Standard D1140)
- Grain Size Distribution (ASTM Standard C136)
- Maximum dry density and optimum-moisture content relationship (ASTM Standard D1557)
- Direct shear (ASTM Standard D3080)
- Consolidation (ASTM Standard D2435)
- Atterberg Limits (ASTM Standard D4318)
- Expansion Index (ASTM Standard D4829)
- R-value (ASTM D2844)
- Soil corrosivity tests (Caltrans 643, 422, 417, and 532)

3.4 Analyses and Report

Data obtained from the exploratory fieldwork and laboratory-testing program were analyzed and evaluated with respect to the planned construction. This report was prepared to provide the findings, conclusions and recommendations developed during our study and evaluation.

4.0 GEOLOGIC CONDITIONS

4.1 Regional Geologic Setting

The regional geologic setting consists of a broad and deep sediment filled basin (San Fernando Valley) located within the Transverse Ranges geomorphic province of California. Sedimentary deposits within the west-central portion of the San Fernando Valley consist of alluvial soils deposited in a flood plain environment, as mapped and described in the Seismic Hazard Zone Report for the Canoga Park Quadrangle (CDMG, 1998) and the Preliminary Geologic Map of the Los Angeles 30' x 60' Quadrangle by the USGS (2005). Drawing No. 3, *Regional Geologic Map* (based on USGS, 2005), has been prepared to show the location of the project site with respect to the regional geology.

4.2 Subsurface Profile of Project Site

The earth materials encountered during our investigation consist of existing fill soils placed during previous site grading operations and natural alluvial soils to a maximum depth of 51.5 feet bgs. Undocumented fills, ranging from 2 to 5 feet in thickness were



base map enlarged from U.S.G.S. 30 x 60-minute series

118°30'

B = Pre-Quaternary bedrock
 See "Bedrock and Surficial Geology" in Section 1 of the report for descriptions of units.



Plate 1.1 Quaternary Geologic Map of the Canoga Park 7.5-minute Quadrangle, California

REGIONAL GEOLOGIC MAP



PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
 CLEVELAND HIGH SCHOOL
 LOS ANGELES, CALIFORNIA
 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No.
 15-31-171-01

Drawing No.
 3

encountered in the borings. Deeper artificial fill may exist at the site. The fill encountered consists primarily of silty sand, clay and sandy clay. The alluvial soil deposits below the fill primarily consist of clay. Sampling blow-counts correlate to relatively loose to moderately dense conditions near surface, and generally become denser with depth.

Drawing No. 4, *Geologic Cross Section A-A'* has been drawn across the subject site to illustrate the subsurface conditions. For a detailed description of the materials encountered during our exploration, see Appendix A, *Field Exploration*.

4.3 Groundwater

Groundwater was encountered during our recent subsurface exploration at depths of approximately 14 feet and 24 feet below the ground surface. Review of the Seismic Hazards Report for the Canoga Park 7.5-minute Quadrangle (1998) indicates the historic high groundwater level is at approximately 5 feet below existing ground surface.

In general, groundwater levels fluctuate with the seasons and local zones of perched groundwater may be present within the nearer surface soils due to local conditions or during rainy seasons. Groundwater conditions below any given site vary depending on numerous factors including seasonal rainfall, local irrigation, and groundwater pumping, among other factors. The regional groundwater table is expected to be encountered during the planned construction.

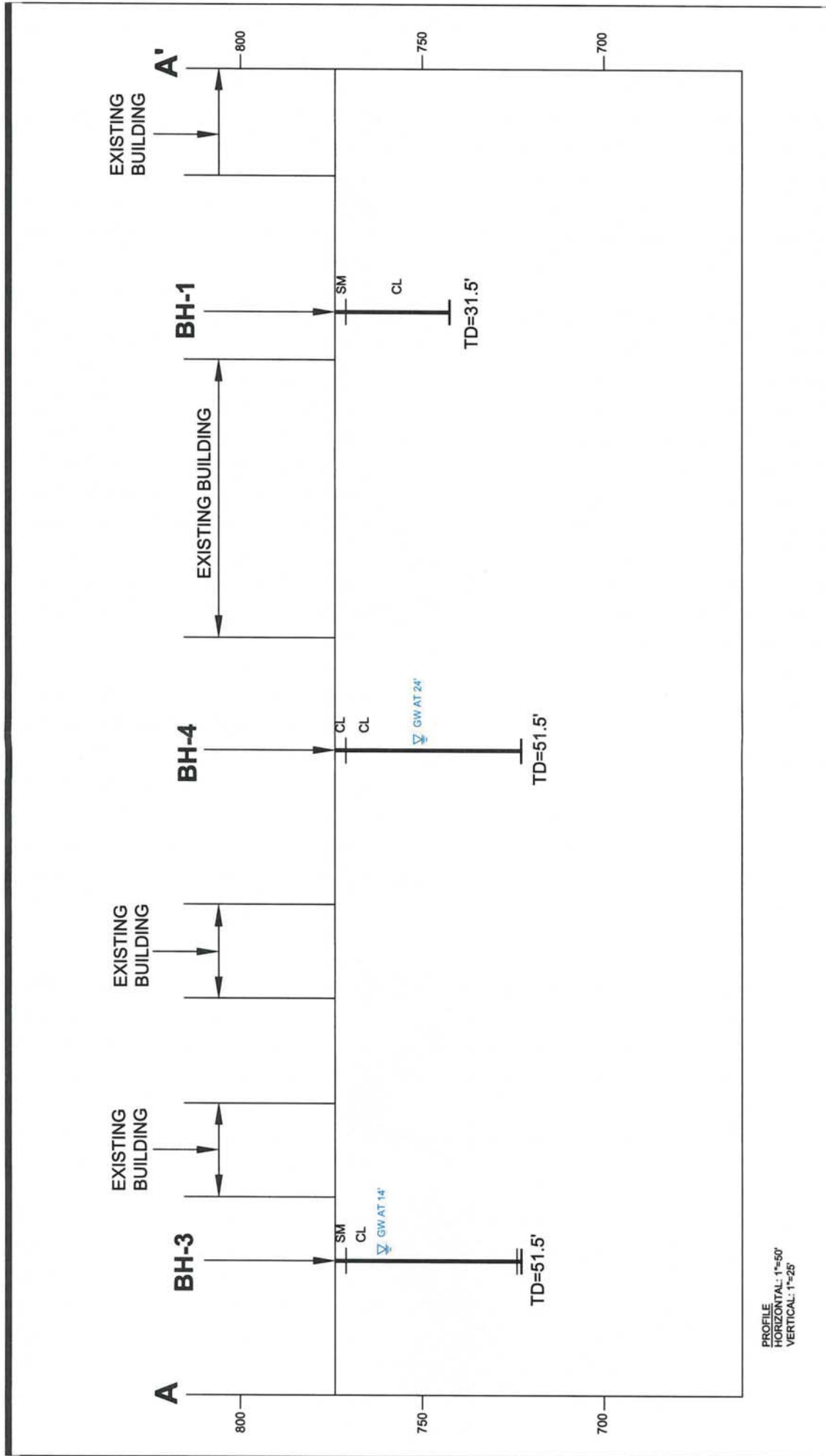
4.4 Subsurface Variations

Based on results of the subsurface exploration and our experience, some variations in the continuity and nature of subsurface conditions within the project site should be anticipated. Because of the uncertainties involved in the nature and depositional characteristics of the earth material at the site, care should be exercised in interpolating or extrapolating subsurface conditions between or beyond the boring locations. If, during construction, subsurface conditions differ significantly from those presented in this report, this office should be notified immediately so that recommendations can be modified, if necessary.

5.0 FAULTING AND SEISMIC HAZARDS

Geologic hazards are defined as geologically related conditions that may present a potential danger to life and property. Typical geologic hazards in Southern California include earthquake ground shaking, fault surface rupture, liquefaction and seismically induced settlement, lateral spreading, landslides, earthquake induced flooding, tsunamis and seiches, and volcanic eruption hazard.

Results of a site-specific evaluation for each type of possible seismic hazards are discussed in the following sections.



5.1 Seismic Characteristics of Nearby Faults

The subject site is situated within a seismically active region. As is the case for most areas of Southern California, ground-shaking resulting from earthquakes associated with nearby and more distant faults may occur at the project site. During the life of the project, seismic activity associated with active faults can be expected to generate moderate to strong ground shaking at the site.

The project site is not located within a currently designated State of California Earthquake Fault Zone (Alquist-Priolo Special Studies Zones) for surface fault rupture. No surface faults are known to project through or towards the site. The closest known faults to the project site with a mappable surface expression are the Santa Susana Fault, located approximately 10 kilometers to the north, the Sierra Madre - San Fernando Fault system located approximately 11 kilometers to the north, and the Verdugo Fault, located approximately 12 kilometers to the east.

Blind thrust faults are low angle reverse faults which generally have no surface trace. The potential for damage from earthquakes on blind thrust faults within the Los Angeles Basin was illustrated by the M_L 5.9 Whittier earthquake on October 1, 1987, and the M_w 6.7 Northridge earthquake on January 17, 1994. The causative blind thrust fault for the Northridge earthquake is located below the subject site at a depth greater than 15 kilometers. The approximate locations of local active faults with respect to the project site are shown on Drawing No. 5, *Southern California Regional Fault Map*.

5.2 Seismic History

We have reviewed California Geologic Survey Map Sheet 49; *Epicenters and Areas Damaged by $M \geq 5$ California Earthquakes, 1800-1999*, (CGS, Topozada et al., 2000). The mapped epicenters of earthquake with magnitude 5.0 or greater in Southern California during the past 200 years are shown on Drawing No. 6, *Epicenters Map of Southern California Earthquakes (1800-1999)*.

An assessment of the recent seismic events in proximity to the project was performed using data provided in the Southern California Earthquake Center (SCEC) and the Consortium of Organizations for Strong-Motion Observation Systems (COSMOS) databases. The number of earthquakes and aftershocks with a moment magnitude of 5.0 or greater occurring within a distance of 100 kilometers was 140, since the Year 1800. The largest earthquake induced ground acceleration affecting the site since the year 1800 was 0.153g, generated from the magnitude 5.9 Whittier Narrows earthquake in 1987.

5.3 Surface Fault Rupture

The project site is not located within a currently designated State of California Earthquake Fault Zone (formerly Alquist-Priolo Special Studies Zones) for surface fault rupture. The Alquist-Priolo Earthquake Fault Zoning Act requires the California Geological Survey to



REFERENCE: PORTION OF CGS 2002 CALIFORNIA FAULT MODEL
 MODIFIED FOR USE WITH FRISKIP AND EOFFAULT
 BY THOMAS F. BLAKE, AUGUST 2004



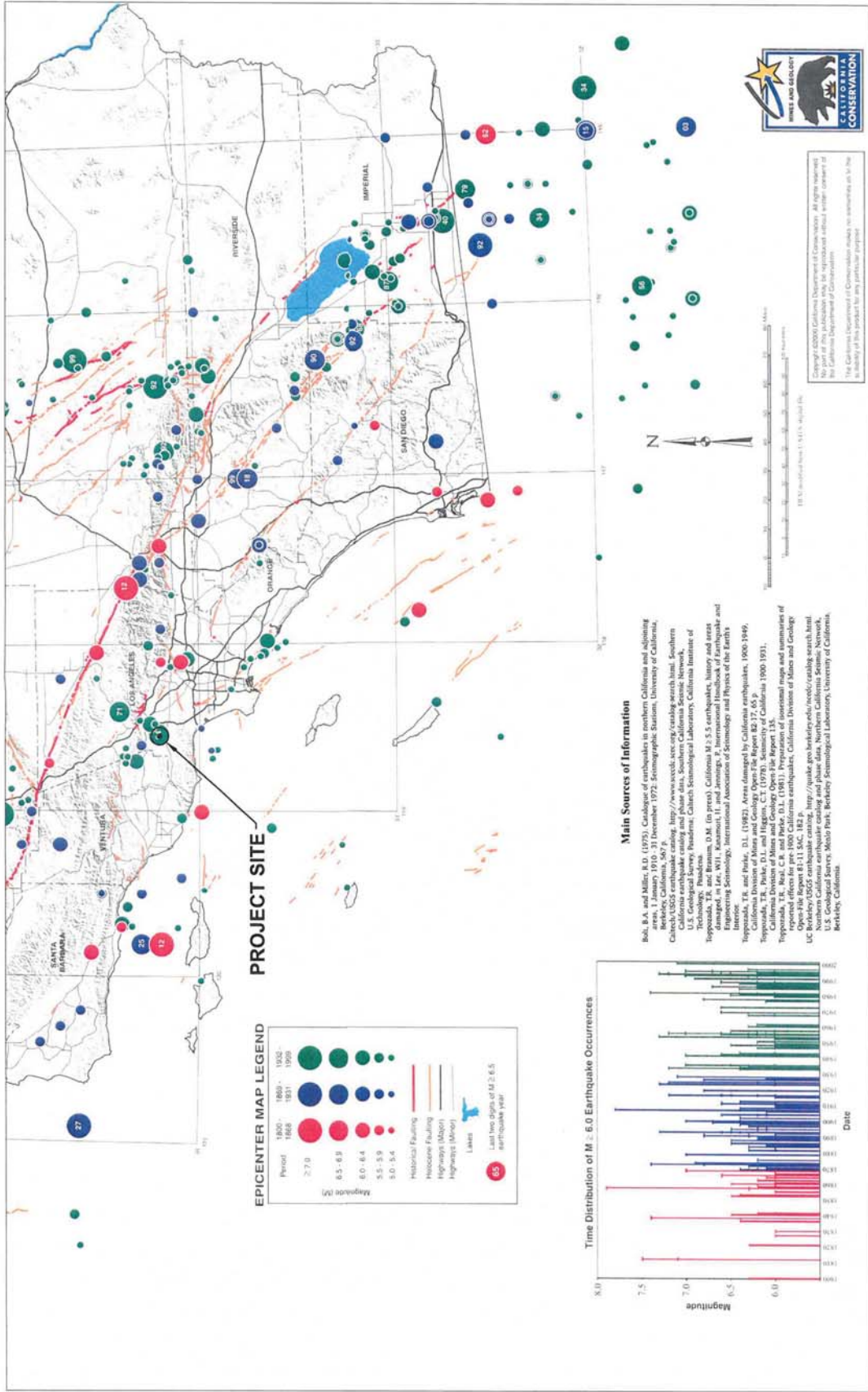
SOUTHERN CALIFORNIA REGIONAL FAULT MAP

Project No. 15-31-171-01
 Drawing No. 5

PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
 CLEVELAND HIGH SCHOOL
 LOS ANGELES, CALIFORNIA
 FOR LOS ANGELES UNIFIED SCHOOL DISTRICT

Converse Consultants





REFERENCE: PORTION OF EPICENTERS AND AREAS DAMAGED BY M2.5 CALIFORNIA EARTHQUAKES, 1800-1999 CALIFORNIA DEPARTMENT OF CONSERVATION, MAP SHEET 49 DATED 2000.

Converse Consultants
 PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
 AND HIGH SCHOOL
 OFFICES
 FOR LOS ANGELES UNIFIED SCHOOL DISTRICT

EPICENTER MAP OF SOUTHERN CALIFORNIA EARTHQUAKES (1800-1999)
 Project No. 15-31-171-01
 Drawing No. 6



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zone “active faults” within the State of California. An “active fault” has exhibited surface displacement with Holocene time (within the last 11,000 years) hence constituting a potential hazard to structures that may be located across it. Public school structures are required to be set-back at least 50 feet from an active fault. The active fault set-back distance is measured perpendicular from the dip of the fault plane. Based on a review of existing geologic information, no known active faults project through or toward the site. The potential for surface rupture resulting from the movement of the nearby major faults is considered remote.

5.4 Liquefaction and Seismically-Induced Settlement

Liquefaction is the sudden decrease in the strength of cohesionless soils due to dynamic or cyclic shaking. Saturated soils behave temporarily as a viscous fluid (liquefaction) and, consequently, lose their capacity to support the structures founded on them. The potential for liquefaction decreases with increasing clay and gravel content, but increases as the ground acceleration and duration of shaking increase. Liquefaction potential has been found to be the greatest where the groundwater level and loose sands occur within 50 feet of the ground surface.

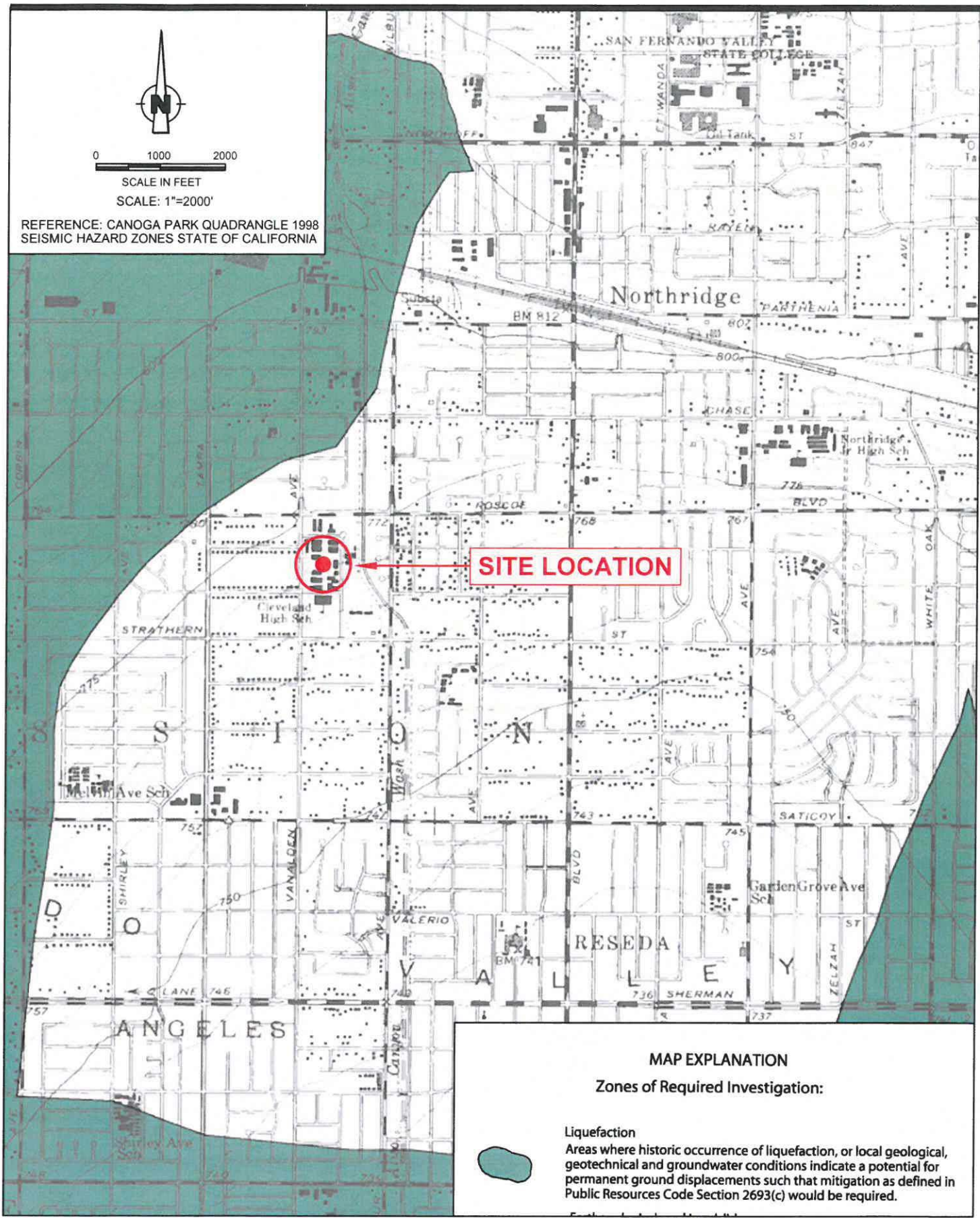
According to the State of California Seismic Hazard Zones Map, the site is not located within an area of potential liquefaction as shown on Drawing No. 7, *Seismic Hazard Zones Map*. Groundwater was encountered during our recent subsurface exploration at depths of approximately 14 feet and 24 feet below the ground surface. The historically highest groundwater level at the site is less than 5 feet bgs. As a result of the presence of the moderately stiff clayey soils encountered, it is concluded that the subject site is not considered susceptible to liquefaction. We anticipate total seismically-induced settlement to be on the scale of 1.00 inches and differential settlement to be less than 0.50 inches over a distance of 30 feet.

5.5 Lateral Spreading

Seismically induced lateral spreading involves primarily lateral movement of earth materials due to ground shaking. It differs from the slope failure in that complete ground failure involving large movement does not occur due to the relatively smaller gradient of the initial ground surface. Lateral spreading is demonstrated by near-vertical cracks with predominantly horizontal movement of the soil mass involved. The topography at the project site and in the immediate vicinity of the site is relatively flat, with no significant nearby slopes or embankments. Under these circumstances, the potential for lateral spreading at the subject site is considered negligible.

5.6 Seismically-Induced Slope Instability

Seismically induced landslides and other slope failures are common occurrences during or soon after earthquakes. The project site is very flat. In the absence of significant ground



SITE LOCATION

MAP EXPLANATION

Zones of Required Investigation:

Liquefaction
 Areas where historic occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

SEISMIC HAZARD ZONES MAP

slopes, the potential for seismically induced landslides to affect the proposed site is considered to be nil.

5.7 Earthquake-Induced Flooding

Review of the Flood Insurance Rate Map (FIRM), Panel 1285 (1285F) of 2350, effective date September 26, 2008, from the Map Service Center (MSC) viewer, indicates that the site is designated as Zone "X", "Other Flood Areas", "Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood."

The potential of earthquake induced flooding of the subject site is considered to be remote.

5.8 Tsunami and Seiches

Tsunamis are tidal waves generated by fault displacement or major ground movement. Based on the location of the site from the ocean (approximately 12.2 miles south of the site), tsunamis do not pose a hazard. Seiches are large waves generated in enclosed bodies of water in response to ground shaking. Based on site location away from lakes and reservoirs, seiches do not pose a hazard.

5.9 Volcanic Eruption Hazard

There are no known volcanoes near the site. According to Jennings (1994), the nearest potential hazards from future volcanic eruptions is the Amboy Crater-Lavic Lake area located in the Mojave Desert more than 170 miles east/northeast of the site. Volcanic eruption hazards are not present.

6.0 SEISMIC ANALYSIS

6.1 CBC Seismic Design Parameters

Seismic parameters based on the 2013 California Building Code are calculated using the United States Geological Survey *U.S. Seismic Design Maps* website application and the site coordinates (34.2182 degrees North Latitude, 118.5481 degrees West Longitude). The seismic parameters are presented below.

Table No. 1, CBC Seismic Design Parameters

Seismic Parameters	2013 CBC
Site Class	D
Mapped Short period (0.2-sec) Spectral Response Acceleration, S_s	1.951 g
Mapped 1-second Spectral Response Acceleration, S_1	0.628 g
Site Coefficient (from Table 1613.5.3(1)), F_a	1.0
Site Coefficient (from Table 1613.5.3(2)), F_v	1.5
MCE 0.2-sec period Spectral Response Acceleration, S_{MS}	1.951 g
MCE 1-second period Spectral Response Acceleration, S_{M1}	0.942 g
Design Spectral Response Acceleration for short period, S_{DS}	1.301 g
Design Spectral Response Acceleration for 1-second period, S_{D1}	0.628 g
Seismic Design Category	D

6.2 Site-Specific Response Spectra

The project site is not located within a currently designated State of California Earthquake Fault Zones (formerly Alquist-Priolo Special Studies Zones) or fault zones designated in the Safety Element of a Local General Plan. In accordance with the 2013 CBC and DSA IR A-4 (revised October 11, 2011) a site-specific ground motion analysis is not required.

7.0 GEOTECHNICAL EVALUATIONS AND CONCLUSIONS

Based on the results of our background review, subsurface exploration, laboratory testing, geotechnical analyses, and understanding of the planned site development, it is our opinion that the proposed project is feasible from a geotechnical standpoint, provided the following conclusions and recommendations are incorporated into the project plans, specifications, and are followed during site construction.

The following is a summary of the major geologic and geotechnical factors to be considered for the planned project:

- Undocumented fill soils ranging 2 feet to 5 feet in thickness were encountered in the borings. Thicker fills or disturbed soils may exist at the site. The fill encountered consists primarily of sandy clay and clay. The alluvial soil deposits below the fill primarily consist of sandy clay and clay.
- The upper five (5) feet of soils have a “Very Low” expansion potential. Mitigation for expansive soil may be necessary.
- During our exploration, groundwater was encountered at 14 and 24 feet below ground surface (bgs). The regional groundwater table is expected to be encountered during the planned construction.
- The project site is not located within a currently designated State of California Earthquake Fault Zone (formerly Alquist-Priolo Special Studies Zones) for surface

fault rupture. The Alquist-Priolo Earthquake Fault Zoning Act requires the California Geological Survey to zone “active faults” within the State of California.

- As a result of the presence of the moderately stiff clayey soils encountered, it is concluded that the subject site is not considered susceptible to liquefaction.
- The pH and chloride content soluble sulfate values of the sample tested are in the “non-corrosive” range. The soluble sulfate values of the sample tested are in the “severe” range to concrete. The resistivity is in the “corrosive” range, to ferrous metals.
- The earth materials at the site are predominately sandy clay and clay. These material types should be excavatable with heavy-duty earth moving, drilling, and trenching equipment.
- Shallow spread and continuous footings are considered suitable for structure support provided the recommendations in this report are incorporated into the project plans, specifications, and are followed during site construction.

8.0 EARTHWORK AND SITE GRADING RECOMMENDATIONS

8.1 General Evaluation

Based on our field exploration, laboratory testing, and analyses of subsurface conditions at the site, remedial grading will be required to prepare the sites for support of the proposed structures that are constructed with conventional shallow footings. To reduce differential settlement, variations in the soil type, degree of compaction, and thickness of the compacted fill, the thickness of compacted fill placed underneath the footings should be kept uniform.

Site grading recommendations provided below are based on our experience with similar projects in the area and our evaluation of this investigation.

Site preparation for the proposed structure will require removal of existing structures, improvements, and other existing underground manmade structures and utilities.

The site soils can be excavated utilizing conventional heavy-duty earth-moving equipment. The excavated site soils, free of vegetation, shrub and debris, may be placed as compacted fill in structural areas after proper processing. Rocks larger than three (3) inches in the largest dimension should not be placed as fill.

On-site clayey soils and with an expansion index exceeding 20 should not be re-used for compaction within 2 feet below the proposed foundations. Soils containing organic materials should not be used as structural fill. The extent of removal should be determined by the geotechnical representative based on soil observation during grading.

8.2 Over-Excavation

Prior to the start of construction, all loose soil, fill and soil disturbed during demolition should be removed to firm acceptable native material or compacted fill. In order to provide uniform support for the structure, the minimum depth of over-excavation should be 5 feet below the ground surface, or depth of undocumented fill, whichever is deeper. Deeper over-excavation will be needed if soft, yielding soils or fill soils are exposed on the excavation bottom. Over-excavation should extend a least five (5) feet laterally beyond the limits of footings or as limited by the existing structures. Excavation activities should not disturb existing utilities, buildings, and remaining structures. The ABC slot cutting method for retaining walls could be a possible option as an alternative to shoring for excavation less than 8 feet or with cohesive soils.

The exposed bottom of the over-excavation area should be scarified at least 6 inches, moisture conditioned as needed to near-optimum moisture content, and compacted to 90 percent relative compaction. Over-excavation should not undermine adjacent off-site improvements. Remedial grading should not extend within a projected 1:1 (horizontal to vertical) plane projected down from the outer edge of adjacent off-site improvements. If loose, yielding soil conditions are encountered at the excavation bottom, the following options can be considered:

- a. Over-excavate until reach firm bottom.
- b. Scarify or over-excavate additional 18 inches deep, and then place at least 18-inch-thick compacted base material (CAB or equivalent) to bridge the soft bottom. Base should be compacted to 95% relative compaction.
- c. Over-excavate additional 18 inches deep, and then place a layer of geofabric i.e. Marifi HP570, X600 or equivalent), place 18-inch-thick compacted base material (CAB or equivalent) to bridge the soft bottom. Base should be compacted to 95% relative compaction. An additional layer of geofabric may be needed on top of base depending on the actual site conditions.

The actual depth of removal should be based on recommendations and observation made during grading. Therefore, some variations in the depth and lateral extent of over-excavation recommended in this report should be anticipated.

8.3 Structural Fill

Following observation of the excavation bottom, subgrade soil surfaces should be scarified to a depth of at least six inches. The scarified soil should be moisture-conditioned within three (3) percent of optimum moisture for granular soils and to approximate three (3) percent above the optimum moisture for fine-grained soil. Scarified soil shall be compacted to a minimum 90 percent of the laboratory maximum dry density as determined by the ASTM Standard D1557 test method.

Any import fill should be tested and approved by Project Geotechnical Consultant. The import fill should have an expansion potential less than 20. The imported materials should be thoroughly mixed and moisture conditioned within three (3) percent above the optimum moisture. All fill, if not specified otherwise elsewhere in this report, should be compacted to at least 90 percent of the laboratory dry density in accordance with the ASTM Standard D1557 test method.

Where the fill is not within the areas specified above or is not to support any structures, excavated site soils, free of deleterious materials and rock particles larger than three inches in the largest dimension, should be suitable for placement as compacted fill. The site materials should be thoroughly mixed and moisture conditioned to approximate three percent above the optimum moisture, and then compacted to at least 90 percent of relative compaction.

8.4 Excavatability

Based on our field exploration, the earth materials at the site should be excavatable with conventional heavy-duty earth moving and trenching equipment. Some gravel should be expected during excavation.

8.5 Trench Zone Backfill

The trench zone is defined as the portion of the trench above the pipe bedding extending up to the final grade level of the trench surface.

The following specifications are recommended to provide a basis for quality control during the placement of trench backfill.

Trench excavations to receive backfill shall be free of trash, debris or other unsatisfactory materials at the time of backfill placement. Excavated on-site soils free of oversize particles, defined as larger than one (1) inch in maximum dimension in the upper 12 inches of subgrade soils and larger than three (3) inches in the largest dimension in the trench backfill below, and deleterious matter after proper processing may be used to backfill the trench zone. Imported trench backfill, if used, should be approved by the project soils consultant prior to delivery at the site. No more than 30 percent of the backfill volume should be larger than $\frac{3}{4}$ inch in the largest dimension.

Trench backfill shall be compacted to 90 percent of the laboratory maximum dry density as per ASTM Standard D1557 test method. At least the upper twelve (12) inches of trench underlying pavements should be compacted to at least 95 percent of the laboratory maximum dry density.

Trench backfill shall be compacted by mechanical methods, such as sheepsfoot, vibrating or pneumatic rollers, or mechanical tampers, to achieve the density specified herein. The backfill materials shall be brought to within three (3) percent of optimum moisture content

and then placed in horizontal layers if the expansion index is less than or equal to 30. Should the expansion index be greater than 30, backfill materials shall be brought to approximately 3 percent above optimum moisture content. The thickness of uncompacted layers should not exceed eight (8) inches. Each layer shall be evenly spread, moistened or dried as necessary, and then tamped or rolled until the specified density has been achieved.

The contractor shall select the equipment and processes to be used to achieve the specified density without damage to adjacent ground and completed work. The field density of the compacted soil shall be measured by the ASTM Standard D1556 or ASTM Standard D2922 test methods or equivalent. Observation and field tests should be performed by Converse during construction to confirm that the required degree of compaction has been obtained. Where compaction is less than that specified, additional compactive effort shall be made with adjustment of the moisture content as necessary, until the specified compaction is obtained. It should be the responsibility of the contractor to maintain safe conditions during cut and/or fill operations. Trench backfill shall not be placed, spread or rolled during unfavorable weather conditions. When the work is interrupted by heavy rain, fill operations shall not be resumed until field tests by the project's geotechnical consultant indicate that the moisture content and density of the fill are as previously specified.

8.5.1 Select Imported Fill Materials for Trench Zone Backfill

Imported soils, if any, used as compacted trench backfill should be predominantly granular and meet the following criteria:

- Expansion Index less than 20
- Free of all deleterious materials
- Contain no particles larger than 3 inches in the largest dimension
- Contain less than 30 percent by weight retained on ¾-inch sieve
- Contain at least 15 percent fines (passing #200 sieve)
- Have a Plasticity Index of 10 or less

Any import fill should be tested and approved by the geotechnical representative prior to delivery to the site.

8.6 Expansive Soil Mitigation

Based on the laboratory test results, the near-surface earth materials have a “Very Low” expansion potential. Mitigation for expansive soils may be necessary. The on-site soil materials will be mixed during the grading and the expansion potential might change. Therefore, the expansion potential of site soils should be verified after the grading as slabs, foundations and pavement placed directly on expansive subgrade soil will likely crack over time.

To mitigate the expansive soils, on-site clayey soils with an Expansion Index higher than 20 should not be re-used for compaction within 2 feet below the proposed foundations or for retaining wall backfill. The extent of removal should be determined by the geotechnical representative based on soil observation during grading.

There are several alternative mitigation measures that can be utilized to improve expansive soils at the site. Some mitigation measures include:

- Removing about two (2) feet of the underlying soils throughout areas beneath structures, and replacing with imported non-expansive sandy soil materials.
- Reinforce footing and place thicker concrete slab with moisture barrier
- Lime treat the upper two (2) feet of the subgrade soils

8.7 Shrinkage and Subsidence

Soil shrinkage and/or bulking as a result of remedial grading depends on several factors including the depth of over-excavation, and the grading method and equipment utilized, and average relative compaction. For preliminary estimation, bulking and shrinkage factors for various units of earth material at the site may be taken as presented below:

- The approximate shrinkage factor for the native alluvial soils is estimated to range from five (5) to fifteen (15) percent.
- For estimation purposes, ground subsidence may be taken as 0.15 feet as a result of remedial grading.

Although these values are only approximate, they represent our best estimates of the factors to be used to calculate lost volume that may occur during grading. If more accurate shrinkage and subsidence factors are needed, it is recommended that field-testing using the actual equipment and grading techniques be conducted.

8.8 Subgrade Preparation

Final subgrade soils for structures should be uniform and non-yielding. To obtain a uniform subgrade, soils should be well mixed and uniformly compacted. The subgrade soils should be non-expansive and well-drained. The near-surface site soils should be free draining. We recommend that at least the upper two (2) inches of subgrade soils underneath the slab-on-grade should be comprised of well-drained granular soils such as sands, gravel or crushed aggregate satisfying the following criteria:

- Maximum size \leq 1.5 inches
- Percent passing U.S. #200 sieve \leq 12 percent
- Sand equivalent \geq 30
- The subgrade soils should be moisture conditioned before placing concrete.

9.0 DESIGN RECOMMENDATIONS

The various design recommendations provided in this section are based on the assumptions that in preparing the site, the earthwork and site grading recommendations provided in this report will be followed. The proposed shade structures may be supported by shallow continuous, isolated square footings or pier foundations.

9.1 Shallow Foundations

9.1.1 Vertical Capacity

The proposed building can be supported by conventional shallow footings. We recommend continuous and square footings be founded at least 24 inches below lowest adjacent final grade entirely into compacted fill or into native soil. A minimum footing width of 24 inches is recommended for square footings and 18 inches for continuous footings. The allowable bearing value for footings with above minimum sizes founded on compacted fill and competent native soils may be designed for a net bearing pressure of 2,500 pounds per square foot (psf) for dead-plus-live-loads. The net allowable bearing pressure can be increased by 250 psf for each additional foot of excavation depth and by 50 psf for each additional foot of excavation width up to a maximum value of 3,500 psf.

The net allowable bearing values indicated above are for the dead loads and frequently applied live loads and are obtained by applying a factor of safety of 3.0 to the net ultimate bearing capacity.

9.1.2 Lateral Capacity

Resistance to lateral loads can be provided by friction acting at the base of the foundation and by passive earth pressure. A coefficient of friction of 0.3 may be assumed with normal dead load forces. An allowable passive earth pressure of 250 psf per foot of depth up to a maximum of 2,000 psf may be used for footings poured against properly compacted fill. The values of coefficient of friction and allowable passive earth pressure include a factor of safety of 1.5.

9.1.3 Settlement

The static settlement of structures supported on continuous and/or spread footings founded on compacted fill and native soil will depend on the actual footing dimensions and the imposed vertical loads. Most of the footing settlement at the project site is expected to occur immediately after the application of the load. Based on the maximum allowable net bearing pressures presented above, static settlement is anticipated to be less than 1.0 inch. Differential settlement is expected to be up to one-half of the total settlement over a 30-foot span.

9.1.4 Dynamic Increases

Bearing values indicated above are for total dead load and frequently applied live loads. The above vertical bearing may be increased by 33% for short durations of loading which will include the effect of wind or seismic forces. The allowable passive pressure may be increased by 33% for lateral loading due to wind or seismic forces.

9.2 Modulus of Subgrade Reaction

For the subject project, design of the structures supported on compacted fill subgrade prepared in accordance with the recommendations provided in this report may be based on a soil modulus of subgrade reaction of (k_s) of 125 pounds per square inch per inch.

9.3 Slabs-on-grade

Slabs-on-grade should have a minimum thickness of four inches nominal for support of normal ground-floor live loads. Minimum reinforcement for slabs-on-grade should be No. 3 reinforcing bars, spaced at 18 inches on-center each way. The thickness and reinforcement of more heavily loaded slabs will be dependent upon the anticipated loads and should be designed by a structural engineer. A static modulus of subgrade reaction equal to 125 pounds per square inch per inch may be used in structural design of concrete slabs-on-grade.

It is critical that the exposed subgrade soils should not be allowed to desiccate prior to the slab pour. Care should be taken during concrete placement to avoid slab curling. Slabs should be designed and constructed as promulgated by the ACI and Portland Cement Association (PCA). Prior to the slab pour, all utility trenches should be properly backfilled and compacted.

9.4 Soil Corrosivity Evaluation

Converse retained the Environmental Geotechnology Laboratory, Inc., located in Arcadia, California, to test two (2) samples taken in the general area of the proposed structures. The tests included minimum resistivity, pH, soluble sulfates, and chloride content, with the results summarized on the following table:

Table No. 2, Soil Corrosivity Test Results

Boring No.	Sample Depth (feet)	pH (Caltrans 643)	Soluble Chlorides (Caltrans 422) ppm	Soluble Sulfate (Caltrans 417) % by Weight	Saturated Resistivity (Caltrans 532) Ohm-cm
BH-3	1-5	7.70	260	0.398	550
BH-4	1-5	7.85	115	0.035	1,030

In accordance with the Caltrans Corrosive Guidelines (2012), the pH and chloride content soluble sulfate values of the sample tested are in the “non-corrosive” range. The soluble sulfate values of the sample tested are in the “severe” range to concrete. The resistivity is in the “corrosive” range, to ferrous metals. Mitigation measures to protect concrete in contact with the soils should be anticipated. Type I or II Portland Cement may be used for the construction of the foundations and slabs.

The test results presented herein are considered preliminary. If advanced corrosivity study is desired by the design team, a corrosion engineer can be consulted for appropriate mitigation procedures and construction design.

9.5 Flexible Pavement

The flexible pavement structural section design recommendations were performed in accordance with the method contained in the *CALTRANS Highway Design Manual*, Chapter 630 without the factor of safety. No specific traffic study was performed to determine the Traffic Index (TI) for the proposed project, therefore a wide range of TI values were evaluated.

Due to various earth materials encountered at the site, flexible pavement structural section recommendations are prepared for both subgrade soils. We recommend that the project structural engineer consider the traffic loading conditions at various locations and select the appropriate pavement sections from the following table:

Table No. 3, Flexible Pavement Structural Sections

Design R-value	Design TI	Asphalt Concrete (AC) Over Aggregate Base (AB) Structural Sections		Full AC Structural Section
		AC (inches)	AB (inches)	AC (inches)
29	4	3.0	3.0	4.0
	5	4.0	3.0	5.5
	6	5.0	4.5	7.0
	7	6.0	6.0	8.5
	8	7.0	7.0	9.5
	9	8.0	8.0	11.0

Base material shall conform to requirements for Crushed Miscellaneous Base (CMB) or equivalent and should be placed in accordance with the requirements of the Standard Specifications for Public Works Construction (SSPWC, latest Edition).

Asphaltic materials should conform to Section 203-1, "Paving Asphalt," of the Standard Specifications for Public Works Construction (SSPWC, latest Edition) and should be placed in accordance with Section 302-5, "Asphalt Concrete Pavement," of the SSPWC, 2012 edition.

Positive drainage should be provided away from all pavement areas to prevent seepage of surface and/or subsurface water into the pavement base and/or subgrade.

9.6 Rigid Pavement

Rigid pavement design recommendations were provided in accordance with the Portland Cement Association's (PCA) Southwest Region Publication P-14, *Portland Cement Concrete Pavement (PCCP) for Light, Medium, and Heavy Traffic*. We recommend that the project structural engineer consider the loading conditions at various locations and select the appropriate pavement sections from the following table:

Table No. 4, Rigid Pavement Structural Sections

Design R-Value	Design Traffic Index (TI)	PCCP Pavement Section (inches)
29	4.0	6.25
	5.0	6.50
	6.0	6.75
	7.0	7.25
	8.0	7.50
	9.0	7.75

The above pavement section is based on a minimum 28-day Modulus of Rupture (M-R) of 550 psi and a compressive strength of 3,750 psi. The third point method of testing beams should be used to evaluate modulus of rupture. The concrete mix design should contain a minimum cement content of 5.5 sacks per cubic yard. Recommended maximum and minimum values of slump for pavement concrete are three inches to one inch, respectively.

Transverse contraction joints should not be spaced more than 15 feet and should be cut to a depth of ¼ the thickness of the slab. Longitudinal joints should not be spaced more than 12 feet apart. A longitudinal joint is not necessary in the pavement adjacent to the curb and gutter section.

Prior to placement of concrete, at least the upper 12 inches of subgrade soils below rigid pavement sections should be compacted to at least 95 percent relative compaction as defined by the ASTM D 1557 standard test method.

Positive drainage should be provided away from all pavement areas to prevent seepage of surface and/or subsurface water into pavement base and/or subgrade.

9.7 Site Drainage

Adequate positive drainage should be provided away from the structures to prevent ponding and to reduce percolation of water into structural backfill. We recommend that

the landscape area immediately adjacent to the foundation shall be designed sloped away from the building with a minimum 5% slope gradient for at least 10 feet measured perpendicular to the face of the wall. Impervious surfaces within 10 feet of the foundation shall have a minimum 2 percent slope away from the building per 2013 CBC.

Planters and landscaped areas adjacent to the building perimeter should be designed to minimize water infiltration into the subgrade soils.

10.0 CONSTRUCTION CONSIDERATIONS

10.1 General

Site soils should be excavatable using conventional heavy-duty excavating equipment. Temporary sloped excavation is feasible if performed in accordance with the slope ratios provided in Section 10.2, *Temporary Excavations*. Existing utilities should be accurately located and either protected or removed as required.

10.2 Temporary Excavations

Based on the sandy materials encountered in the exploratory borings, sloped temporary excavations (if necessary) may be constructed according to the slope ratios presented in Table No. 5, *Slope Ratios for Temporary Excavations*. Any loose utility trench backfill or other fill encountered in excavations will be less stable than the native soils. Temporary cuts encountering loose fill or loose dry sand may have to be constructed at a flatter gradient than presented in the following table:

Table No. 5, Slope Ratios for Temporary Excavations

Maximum Depth of Cut (feet)	Maximum Slope Ratio* (horizontal: vertical)
0 – 5	vertical
5 – 10	1:1
10+	1.5:1

*Slope ratio assumed to be uniform from top to toe of slope.

Surfaces exposed in slope excavations should be kept moist but not saturated to minimize raveling and sloughing during construction. Adequate provisions should be made to protect the slopes from erosion during periods of rainfall. Surcharge loads, including construction, should not be placed within five (5) feet of the unsupported trench edge. The above maximum slopes are based on a maximum height of six (6) feet of stockpiled soils placed at least five (5) feet from the trench edge.

All applicable requirements of the California Construction and General Industry Safety Orders, the Occupational Safety and Health Act of 1987 and current amendments, and the Construction Safety Act should be met. The soils exposed in cuts should be observed

during excavation by the project's geotechnical consultant. If potentially unstable soil conditions are encountered, modifications of slope ratios for temporary cuts may be required.

10.3 Slot Cut Recommendations

Temporary excavations during possible improvements should not extend below a 1:1 (horizontal:vertical) plane extending beyond and down from the bottom of the existing utility lines or structures. The remedial grading excavations should not cause loss of bearing and/or lateral support for adjacent utilities or structures.

If remedial grading excavations extend below a 1:1 horizontal:vertical (H:V) plane extending beyond and down from the bottom of adjacent off-site utility lines or structure foundations, shoring or slot cutting shall be employed. "A-B-C" slot cuts exposing native sandy soils may be excavated with maximum 10 feet wide sections to prevent the existing utility lines or off-site structures from becoming unstable. Backfill should be accomplished in the shortest period of time possible and in alternating sections.

The ABC slot cutting method for retaining walls could be a possible option as an alternative to shoring for excavation less than 8 feet or with cohesive soils. In general for structures, it is not recommended for slot cutting if the height of excavation exceeds more than 8 feet or into sandy soils and with surcharging load.

10.4 Geotechnical Services During Construction

This report has been prepared to aid in the site preparation and site grading plans and specifications, and to assist the architect, civil and structural engineers in the design of the proposed structure. It is recommended that this office be provided an opportunity to review final design drawings and specifications to verify that the recommendations of this report have been properly implemented.

Recommendations presented herein are based upon the assumption that adequate earthwork monitoring will be provided by Converse. Excavation bottoms should be observed by a Converse representative prior to the placement of compacted fill. Structural fill and backfill should be placed and compacted during continuous observation and testing by this office. Footing excavations should be observed by Converse prior to placement of steel and concrete so that footings are founded on satisfactory materials and excavations are free of loose and disturbed materials.

During construction, the geotechnical engineer and/or their authorized representatives should be present at the site to provide a source of advice to the client regarding the geotechnical aspects of the project and to observe and test the earthwork performed. Their presence should not be construed as an acceptance of responsibility for the performance of the completed work, since it is the sole responsibility of the contractor

performing the work to ensure that it complies with all applicable plans, specifications, ordinances, etc.

This firm does not practice or consult in the field of safety engineering. We do not direct the contractor's operations, and cannot be responsible for other than our own personnel on the site; therefore, the safety of others is the responsibility of the contractor. The contractor should notify the owner if he considers any recommended actions presented herein to be unsafe.

11.0 CLOSURE

The findings and recommendations of this report were prepared in accordance with generally accepted professional engineering and engineering geologic principles and practice. We make no other warranty, either expressed or implied. Our conclusions and recommendations are based on the results of the field and laboratory investigations, combined with an interpolation and extrapolation of soil conditions between and beyond boring locations. If conditions encountered during construction appear to be different from those shown by the borings, this office should be notified.

Design recommendations given in this report are based on the assumption that the earthwork and site grading recommendations contained in this report are implemented. Additional consultation may be prudent to interpret Converse's findings for contractors, or to possibly refine these recommendations based upon the review of the final site grading and actual site conditions encountered during construction. If the scope of the project changes, if project completion is to be delayed, or if the report is to be used for another purpose, this office should be consulted.

This report was prepared for LAUSD for the subject project described herein. We are not responsible for technical interpretations made by others of our exploratory information. Specific questions or interpretations concerning our findings and conclusions may require a written clarification to avoid future misunderstandings.

12.0 REFERENCES

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APPENDIX A
FIELD EXPLORATION

APPENDIX A

FIELD EXPLORATION

Field exploration included an initial site reconnaissance, and subsurface drilling. During the site reconnaissance, surface conditions were noted and the locations of the test borings were determined. Borings were approximately located using existing features as a guide.

Four (4) exploratory borings, located within the proposed comprehensive modernization project area (BH-1, through BH-4), were drilled on June 16, 2015. The borings were advanced using a truck mounted drill rig with an 8-inch diameter hollow stem auger to a maximum depth of 51.5 feet below the existing ground surface (bgs). Each boring was visually logged by a Converse geologist and sampled at regular intervals and at changes in subsurface soils, in accordance with the Unified Soil Classification System. Field descriptions have been modified, where appropriate, to reflect laboratory test results.

Relatively undisturbed ring and bulk samples of the subsurface soils were obtained at frequent intervals in the borings. The undisturbed samples were obtained using a California Steel Sampler (2.4 inches inside diameter and 3.0 inches outside diameter) lined with thin sample rings. The sampler was driven into the bottom of the boreholes with successive drops of a 140-pound hammer falling 30 inches by means of a mechanically driven pulley. The number of successive drops of the driving weight ("blows") required for every 6-inch of penetration of the sampler are shown on the Logs of Borings in the "blows" column.

The soil was retained in brass rings (2.4 inches in diameter and one inch in height). The central portion of the sample was retained and carefully sealed in waterproof plastic containers for shipment to the laboratory. Bulk soil samples were also collected in plastic bags and brought to the laboratory.

Standard Penetration Tests (SPTs) were also performed. In this test, a standard split-spoon sampler (1.4 inches inside diameter and 2.0 inches outside diameter) was driven into the ground with successive drops of a 140-pound hammer falling 30 inches by means of an automatic hammer. The number of successive drops of the driving weight ("blows") required for every 6-inch of penetration of the sampler are shown on the Logs of Borings in the "blows" column. The soil retrieved from the spoon sampler was carefully sealed in waterproof plastic containers for shipment to the laboratory.

It should be noted that the exact depths at which material changes occur cannot always be established accurately. Changes in material conditions that occur between driven samples are indicated in the logs at the top of the next drive sample. A key to soil symbols and terms is presented as Drawing No. A 1, *Soil Classification Chart*. The logs of the exploratory boring are presented in Drawing Nos. A-2 through A-5b, *Log of Borings*.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
			GRAPH	LETTER	
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SM	SILTY SANDS, SAND - SILT MIXTURES
		SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
		LIQUID LIMIT LESS THAN 50		CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
		LIQUID LIMIT LESS THAN 50		OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
		LIQUID LIMIT GREATER THAN 50		CH	INORGANIC CLAYS OF HIGH PLASTICITY
		LIQUID LIMIT GREATER THAN 50		OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SAMPLE TYPE

- STANDARD PENETRATION TEST**
Split barrel sampler in accordance with ASTM D-1586-84 Standard Test Method
- DRIVE SAMPLE** 2.42" I.D. sampler.
- DRIVE SAMPLE** No recovery
- BULK SAMPLE**
- GRAB SAMPLE**
- GROUNDWATER WHILE DRILLING**
- GROUNDWATER AFTER DRILLING**

BORING LOG SYMBOLS

NOTE: 10-DCP BLOWS
LW=LIGHT WEIGHT
HW= HEAVY WEIGHT

LABORATORY TESTING ABBREVIATIONS

TEST TYPE

(Results shown in Appendix B)

CLASSIFICATION

Plasticity pi
Grain Size Analysis ma
Passing No. 200 Sieve wa
Sand Equivalent se
Expansion Index ei
Compaction Curve max
Hydrometer h

STRENGTH

Pocket Penetrometer p
Direct Shear ds
Direct Shear (single point) ds*
Unconfined Compression uc
Triaxial Compression tx
Vane Shear vs

Consolidation c
Collapse Test col
Resistance (R) Value r
Chemical Analysis ca
Electrical Resistivity er

UNIFIED SOIL CLASSIFICATION AND KEY TO BORING LOG SYMBOLS










Converse Consultants

Project Name
**PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
CLEVELAND HIGH SCHOOL
LOS ANGELES, CALIFORNIA
FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT**

Project No. **15-31-171-01** Drawing No. **A-1**

Log of Boring No. BH-1

Dates Drilled: 6/16/2015 Logged by: WB Checked By: SKS
 Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in
 Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS		SAMPLES		BLOWS/FT	MOISTURE (%)	DRY UNIT WT. (pcf)	TEST
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	DRIVE	BULK					
	4" ASPHALT WITH 6" BASE								
		FILL (Af): SILTY SAND (SM): fine to coarse-grained sand, trace clay, with gravels up to 2" in maximum dimension, olive. ALLUVIUM (Qal): CLAY (CL): trace fine to medium-grained sand, dark brown.							ei
5	-brown					7/6/8	30	90	
10						8/10/10	23	100	c
15						4/6/8			
20		SILTY CLAY (CL): few fine-grained sand, brown.				9/8/10	41	81	ds
25						6/5/5			
30		-grayish brown to dark brown				4/4/8	34	85	
		End of boring at 31.5 feet. Groundwater not encountered during drilling. Borehole backfilled with soil cuttings and patched with asphalt on 6-16-15.							



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Project No. 15-31-171-01 Drawing No. A-2

Log of Boring No. BH-2

Dates Drilled: 6/16/2015 Logged by: WB Checked By: SKS

Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS		SAMPLES		BLOWS/FT	MOISTURE (%)	DRY UNIT WT. (pcf)	TEST
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	DRIVE	BULK					
	3" ASPHALT WITH 8" BASE								
5		<u>FILL (Af):</u> GRAVELLY SAND (SP): fine to coarse-grained, gravels up to 1" in maximum dimension, yellow brown.							r
10		<u>ALLUVIUM (Qal):</u> CLAY (CL): few fine-grained sand, trace silt, dark brown.				10/18/13	26	95	
		End of boring at 11.5 feet. Groundwater not encountered during drilling. Borehole backfilled with soil cuttings and patched with asphalt on 6-16-15.				6/5/6			



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Project Name
 PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
 CLEVELAND HIGH SCHOOL
 LOS ANGELES, CALIFORNIA
 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No. Drawing No.
 15-31-171-01 A-3

Log of Boring No. BH-3

Dates Drilled: 6/16/2015 Logged by: WB Checked By: SKS

Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in

Ground Surface Elevation (ft): N/A Depth to Water (ft): 14

Depth (ft)	Graphic Log	<p style="text-align: center;">SUMMARY OF SUBSURFACE CONDITIONS</p> <p>This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.</p>	SAMPLES		BLOWS/FT	MOISTURE (%)	DRY UNIT WT. (pcf)	TEST
			DRIVE	BULK				
0 - 4		<p>4" ASPHALT WITH 4" BASE</p> <p>FILL (Af): SILTY SAND (SM): fine to medium-grained, trace clay, olive brown.</p> <p>ALLUVIUM (Qal): CLAY (CL): trace silt with trace white caliche stringers, brown to dark brown.</p>						ei,ca
5 - 10		-light brown			6/6/11	30	89	
15					5/5/9			wa fc=(80.2%)
20		SILTY CLAY (CL): brown.			4/7/7	31	90	ds
25					9/8/13			ma,wa fc=(77.7%)
30		-grayish brown to dark brown			7/9/12	37	83	



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Project Name
 PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
 CLEVELAND HIGH SCHOOL
 LOS ANGELES, CALIFORNIA
 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No. 15-31-171-01 Drawing No. A-4a

Log of Boring No. BH-3

Dates Drilled: 6/16/2015 Logged by: WB Checked By: SKS

Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in

Ground Surface Elevation (ft): N/A Depth to Water (ft): 14

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES		BLOWS/FT	MOISTURE (%)	DRY UNIT WT. (pcf)	TEST
			DRIVE	BULK				
		CLAY (CL): few silt, olive brown to grayish brown.	X		6/5/8			wa fc=(72%)
40		-trace fine-grained sand			8/10/14	26	99	
45			X		4/4/7			wa (fc=70%)
50					6/6/11	31	90	
		End of boring at 51.5 feet. Groundwater encountered at 14 feet. Borehole backfilled with soil cuttings and patched with asphalt on 6-16-15.						



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 PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
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 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No. 15-31-171-01 Drawing No. A-4b

Log of Boring No. BH-4

Dates Drilled: 6/16/2015 Logged by: WB Checked By: SKS

Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in

Ground Surface Elevation (ft): N/A Depth to Water (ft): 24

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS		SAMPLES		BLOWS/FT	MOISTURE (%)	DRY UNIT WT. (pcf)	TEST
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.		DRIVE	BULK				
	3" ASPHALT WITH 3" BASE			[Cross-hatched]					
	FILL (Af): SANDY CLAY (CL): fine to medium grained sand, gravels up to 2" in maximum dimension, grayish brown.			[Cross-hatched]					ca,max
5	ALLUVIUM (Qal): CLAY (CL): few fine-grained sand, trace silt, grayish brown.			[Solid black]		9/9/11	27	95	
10	-light brown			[Solid black]		10/1/13	24	96	
15				[Solid black]		9/10/13	34	87	c
20				[X-pattern]		4/6/6			ma (fc=75%)
25	-with gravels up to 1" in maximum dimension			[Solid black]		4/6/5	36	88	pi
30	-dark brown			[X-pattern]		5/4/5			



Converse Consultants

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 CLEVELAND HIGH SCHOOL
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 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No. Drawing No.
 15-31-171-01 A-5a

Log of Boring No. BH-4

Dates Drilled: 6/16/2015 Logged by: WB Checked By: SKS

Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in

Ground Surface Elevation (ft): N/A Depth to Water (ft): 24

Depth (ft)	Graphic Log	<p style="text-align: center;">SUMMARY OF SUBSURFACE CONDITIONS</p> <p>This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.</p>	SAMPLES		BLOWS/FT	MOISTURE (%)	DRY UNIT WT. (pcf)	TEST
			DRIVE	BULK				
	CLAY (CL)	<p>CLAY (CL): few fine to medium-grained sand, trace silt with gravels up to 1" in maximum dimension, light brown to dark brown.</p>			6/4/4	32	90	
40			X		4/3/5			
45						6/8/12	28	96
50			X		3/3/5			
		<p>End of boring at 51.5 feet. Groundwater encountered at 24 feet. Borehole backfilled with soil cuttings and patched with asphalt on 6-16-15.</p>						



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Project No. Drawing No.
 15-31-171-01 A-5b

APPENDIX B
LABORATORY TESTING PROGRAM

APPENDIX B

LABORATORY TESTING PROGRAM

Tests were conducted in our laboratory on representative soil samples for the purpose of classification and evaluation of their relevant physical characteristics and engineering properties. The amount and selection of tests were based on the geotechnical requirements of the project. Test results are presented herein and on the Logs of Borings in Appendix A, *Field Exploration*. The following is a summary of the laboratory tests conducted for this project.

Moisture Content and Dry Density

Results of moisture content and dry density tests, performed on relatively undisturbed ring samples were used to aid in the classification of the soils and to provide quantitative measure of the *in situ* dry density. Data obtained from this test provides qualitative information on strength and compressibility characteristics of site soils. For test results, see the Logs of Borings in Appendix A, *Field Exploration*.

Percent Finer Than Sieve No. 200

The percent finer than sieve No. 200 test were performed on four (4) selected soil samples to aid in the classification of the on-site soils and to estimate other engineering parameters. Testing was performed in general accordance with the ASTM Standard D1140 test method. The test results are presented in the following table and boring logs.

Table No. B-1, Summary of Percent Passing Sieve #200 Test Results

Boring No.	Depth (feet)	Soil Classification	Percent Passing Sieve No. 200
BH-3	15	Clay (CL)	80%
BH-3	25	Silty Clay (CL)	78%
BH-3	35	Silty Clay (CL)	72%
BH-3	45	Clay (CL)	70%
BH-4*	20	Clay (CL)	75

* Results from grain-size analysis

Grain-Size Analysis

To assist in classification of soils, mechanical grain-size analysis was performed on two (2) selected samples. Testing was performed in general accordance with the ASTM Standard C136 test method. Grain-size curves are shown in Drawing No. B-1, *Grain Size Distribution Results*.

Atterberg Limits

Atterberg limits test was performed on one (1) representative sample to assist the classification of the soils according to ASTM Standard D4318 test method. The test results are presented on Drawing No. B-2, *Atterberg Limits Results*, and in the following table.

Table No. B-2, Atterberg Limit Test Results

Boring No	Depth (feet)	Soil Classification	Liquid Limit (%)	Plastic Limit (%)	Plastic Index (%)
BH-4	25	Clay (CL)	36.4	14.3	22.0

Maximum Dry Density Test*

A laboratory maximum dry density-moisture content relationship test were performed on one (1) representative bulk sample. The tests were conducted in accordance with ASTM Standard D1557 laboratory procedure. The test result is presented on Drawing No. B-3, *Moisture-Density Relationship Results*.

Direct Shear

Direct shear tests were performed on two (2) remolded soil samples. The tests were performed at soaked moisture conditions. For this test the samples, contained in brass sampler rings, were placed directly into the test apparatus and subjected to a range of normal loads appropriate for the anticipated conditions. The sample was then sheared at a constant strain rate of 0.02 inch/minute. Shear deformation was recorded until a maximum of about 0.25-inch shear displacement was achieved. Ultimate strength was selected from the shear-stress deformation data and plotted to determine the shear strength parameters. For test data, including sample density and moisture content, see Drawings No. B-4a and B-4b *Direct Shear Test Results*, and in the following table:

Table No. B-3, Direct Shear Test Results

Boring No.	Depth (feet)	Soil Classification	Ultimate Strength Parameters	
			Friction Angle (degrees)	Cohesion (psf)
BH-1	20	Silty Clay (SC)	22	190
BH-3	20	Silty Clay (SC)	22	210

Expansion Index Test

Two (2) representative bulk samples were tested to evaluate the expansion potential of material encountered at the site. The tests were conducted in accordance with ASTM D4829. Test results are presented in the following table:

Table No. B-4, Expansion Index Test Result

Boring No.	Depth (feet)	Soil Description	Expansion Index	Expansion Potential
BH-1	1-5	Silty Sand (SM)	1	Very Low
BH-3	1-5	Silty Sand (SM)	6	Very Low

Consolidation Test

Consolidation test were performed on two (2) relatively undisturbed samples. Data obtained from this test was used to evaluate the settlement characteristics of the foundation soils under load. Preparation for this test involved trimming the sample and placing the one-inch high brass ring into the test apparatus, which contained porous stones, both top and bottom, to accommodate drainage during testing. Normal axial loads were applied to one end of the sample through the porous stones, and the resulting deflections were recorded at various time periods. The load was increased after the sample reached a reasonable state equilibrium. Normal loads were applied at a constant load-increment ratio, successive loads being generally twice the preceding load. The sample was tested at field and submerged conditions. The test results, including sample density and moisture content, are presented in Drawing Nos. B-5a and B-5b, *Consolidation Test Results*.

Soil Corrosivity

Converse retained the Environmental Geotechnology Laboratory, Inc., located in Arcadia, California, to test two (2) bulk soil samples taken in the general area of the proposed structures. The tests included minimum resistivity, pH, soluble sulfates, and chloride content, with the results summarized on the following table:

Table No. B-4, Soil Corrosivity Test Results

Boring No.	Sample Depth (feet)	pH (Caltrans 643)	Soluble Chlorides (Caltrans 422) ppm	Soluble Sulfate (Caltrans 417) % by Weight	Saturated Resistivity (Caltrans 532) Ohm-cm
BH-3	1-5	7.70	260	0.398	550
BH-4	1-5	7.85	115	0.035	1,030

R-value

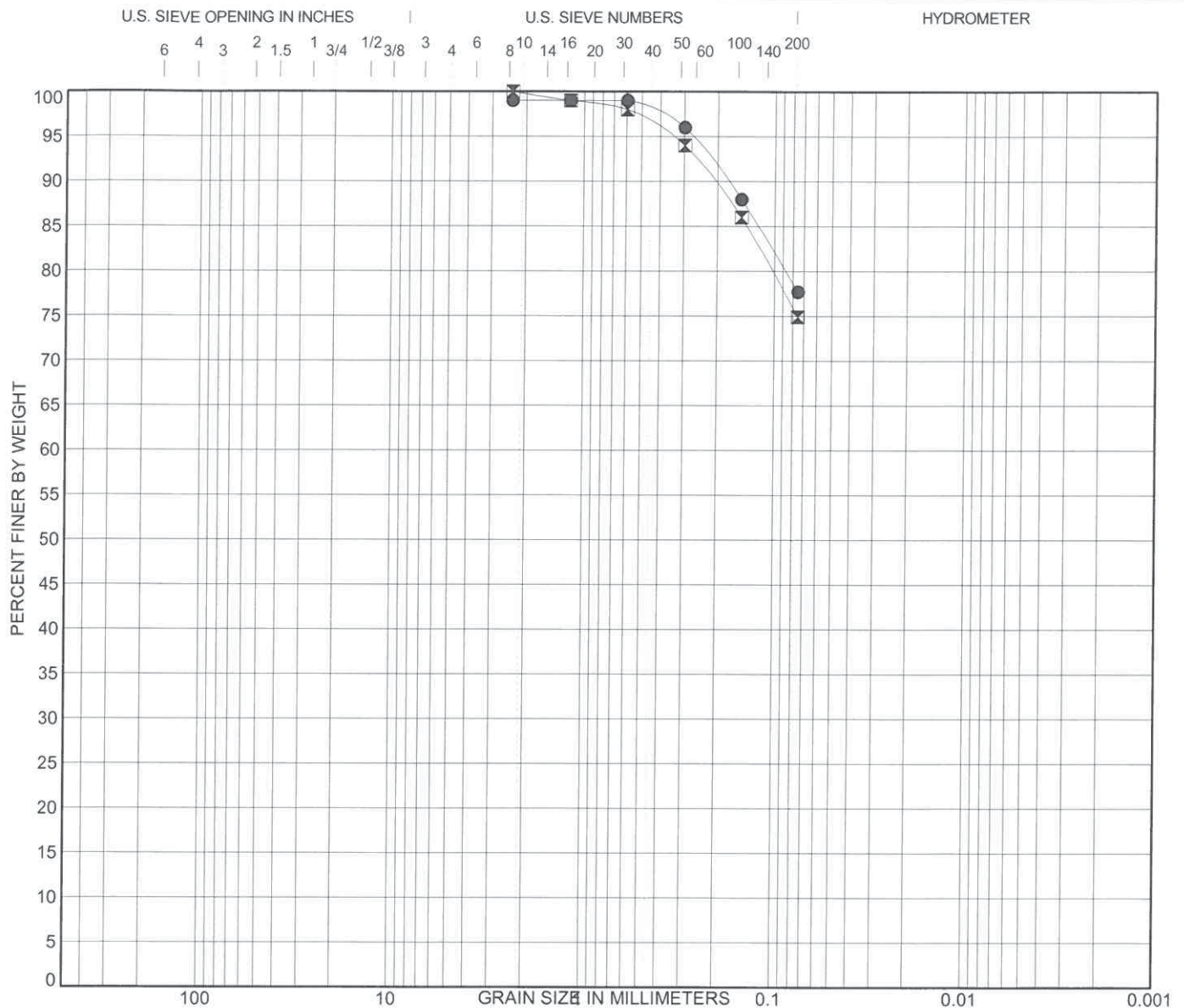
One (1) representative bulk soil sample was tested for resistance value (R-value) in accordance with ASTM D2844 Standard. This test is designed to provide a relative measure of soil strength for use in pavement design. The test results are shown in the following table:

Table No. B-5, R-value Test Result

Boring No.	Depth, ft	Soil Classification	Measured R-value
BH-2	1-5	Gravely Sand (SP)	29

Sample Storage

Soil samples presently stored in our laboratory will be discarded 30 days after the date of this report, unless this office receives a specific request to retain the samples for a longer period.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Boring No.	Depth (ft)	Description	LL	PL	PI	Cc	Cu
● BH-3	25	SILTY CLAY (CL)					
⊠ BH-4	20	CLAY (CL)					

Boring No.	Depth (ft)	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● BH-3	25	2.36				0.0	21.3	77.7	
⊠ BH-4	20	2.36				0.0	25.1	74.9	

GRAIN SIZE DISTRIBUTION RESULTS

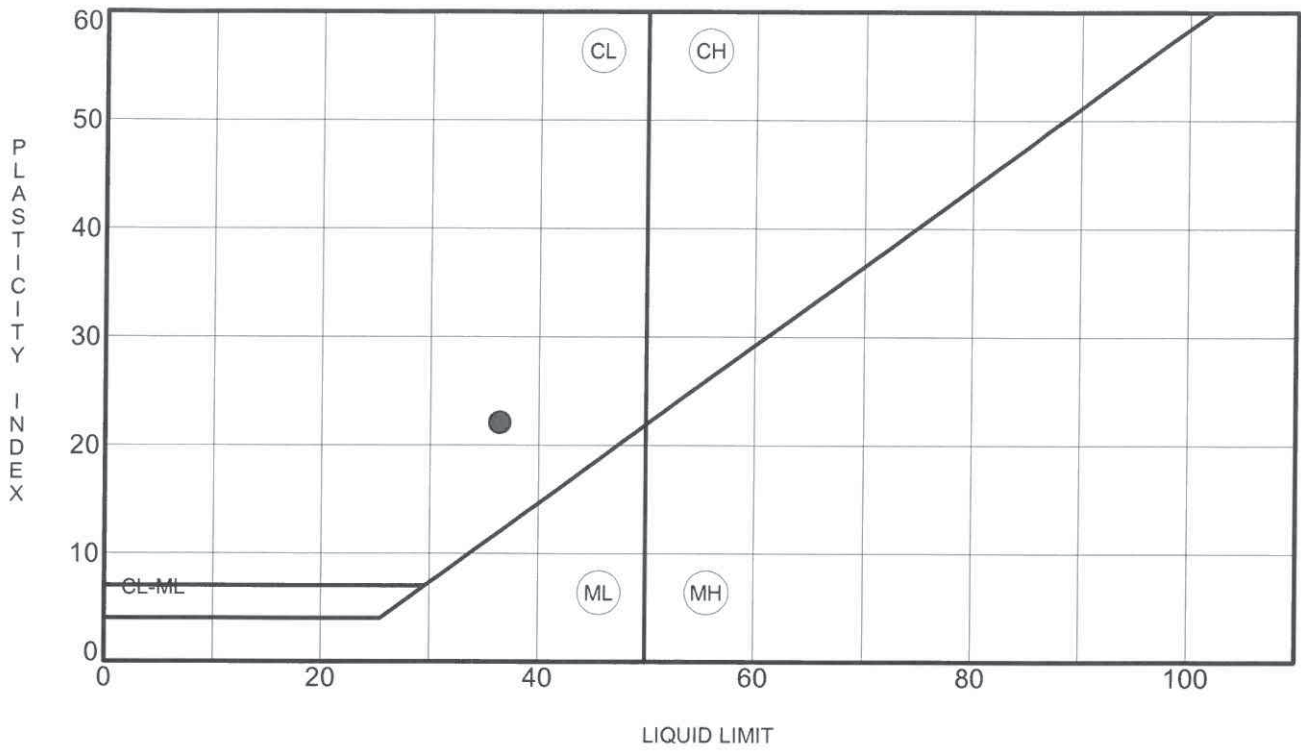


Converse Consultants

Project Name
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 CLEVELAND HIGH SCHOOL
 LOS ANGELES, CALIFORNIA
 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No.
 15-31-171-01

Drawing No.
 B-1



Symbol	Boring No.	Depth (ft)	LL (%)	PL (%)	PI (%)	Description
●	BH-4	25	36.4	14.3	22	CLAY (CL)

ATTERBERG LIMITS RESULTS

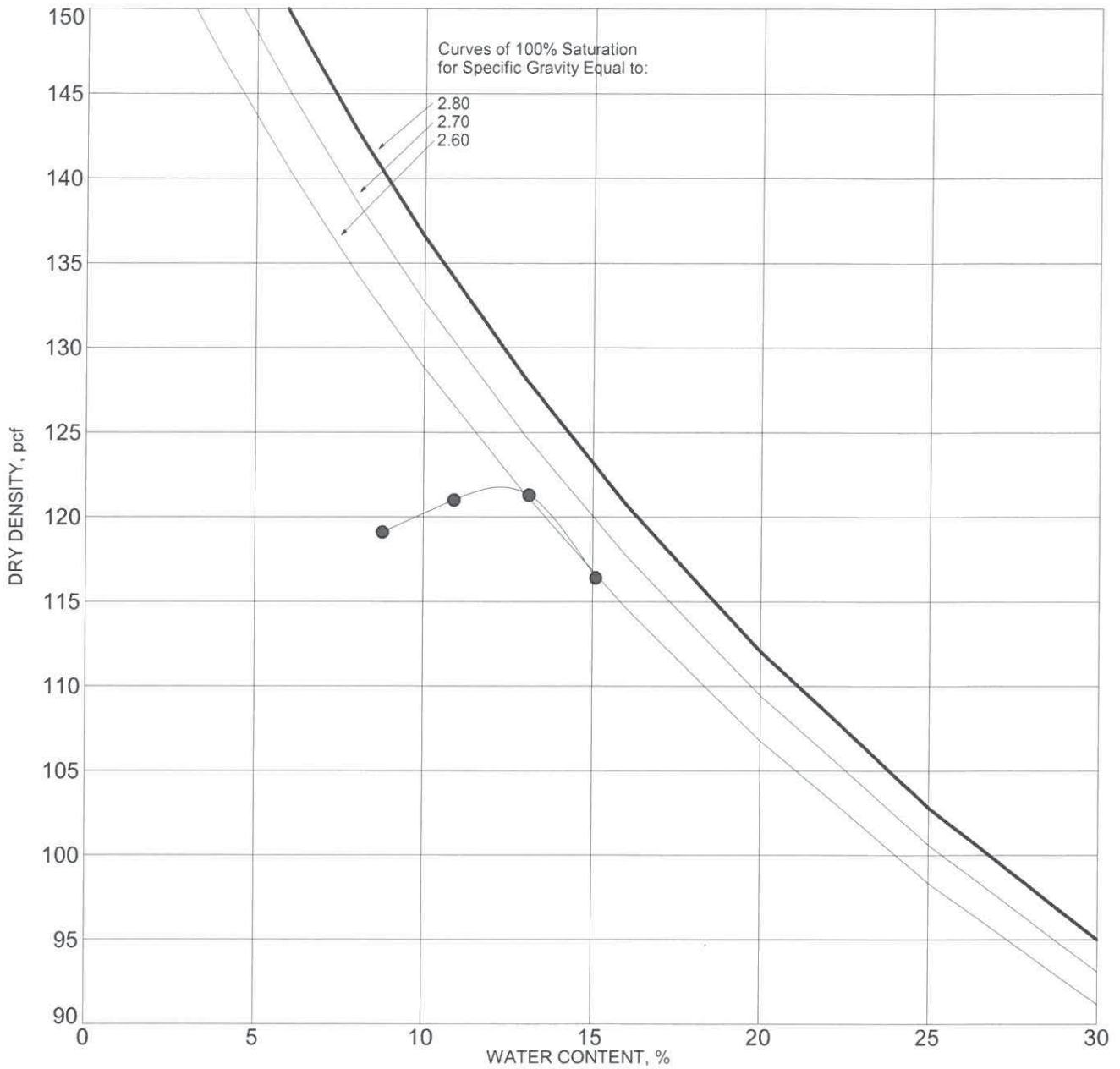


Converse Consultants

Project Name
 PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
 CLEVELAND HIGH SCHOOL
 LOS ANGELES, CALIFORNIA
 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No.
 15-31-171-01

Drawing No.
 B-2



SYMBOL	BORING NO.	DEPTH (ft)	DESCRIPTION	ASTM TEST METHOD	OPTIMUM WATER, %	MAXIMUM DRY DENSITY, pcf
●	BH-4	1-5	SANDY CLAY (CL)	D1557 Method A	11	121.7

NOTE:

MOISTURE-DENSITY RELATIONSHIP RESULTS

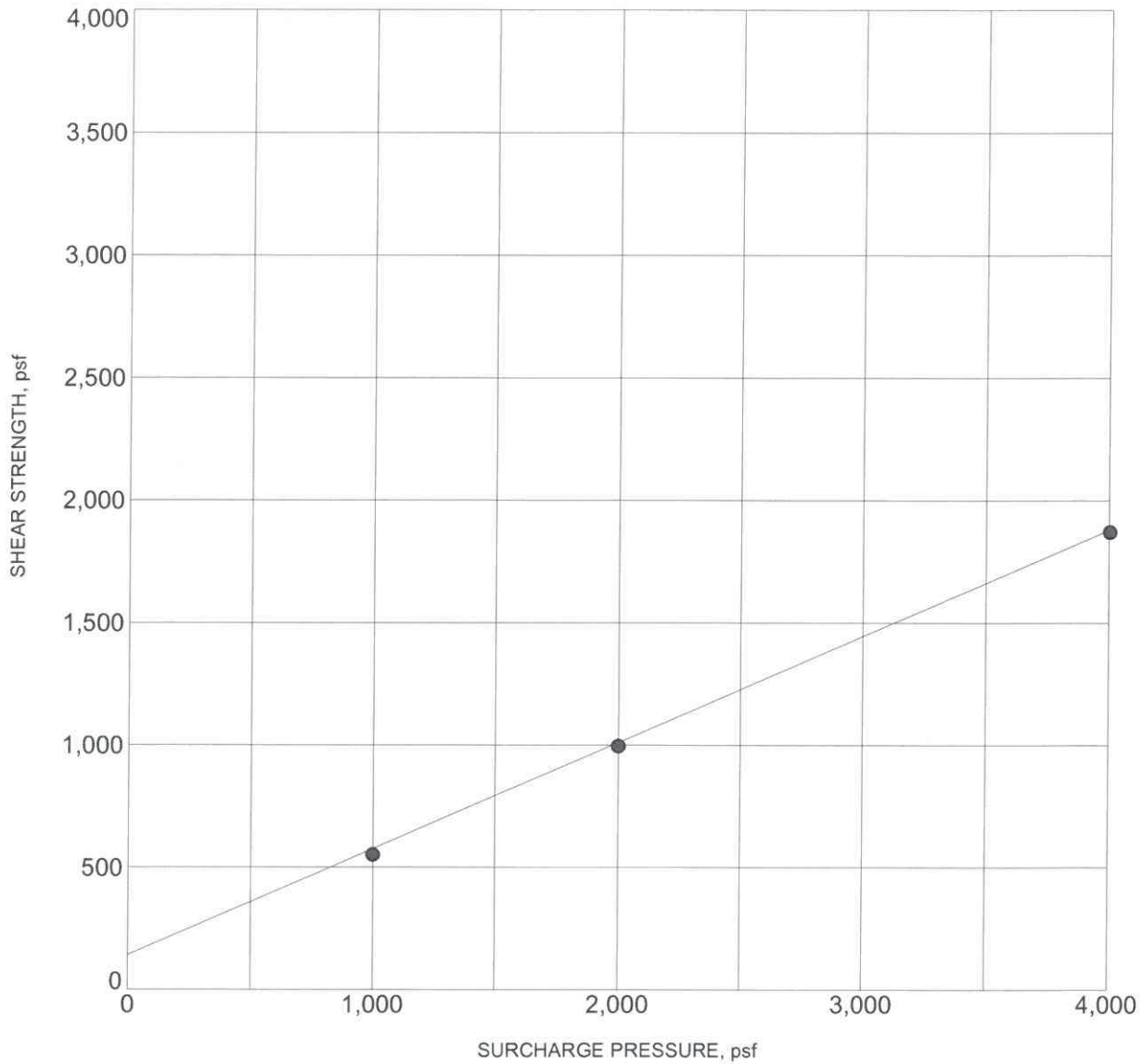


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 PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
 CLEVELAND HIGH SCHOOL
 LOS ANGELES, CALIFORNIA
 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No.
 15-31-171-01

Drawing No.
 B-3



BORING NO.	: BH-1	DEPTH (ft)	: 20
DESCRIPTION	: SILTY CLAY (CL)		
COHESION (psf)	: 190	FRICION ANGLE (degrees):	22
MOISTURE CONTENT (%)	: 41.2	DRY DENSITY (pcf)	: 81.0

NOTE: Ultimate Strength.

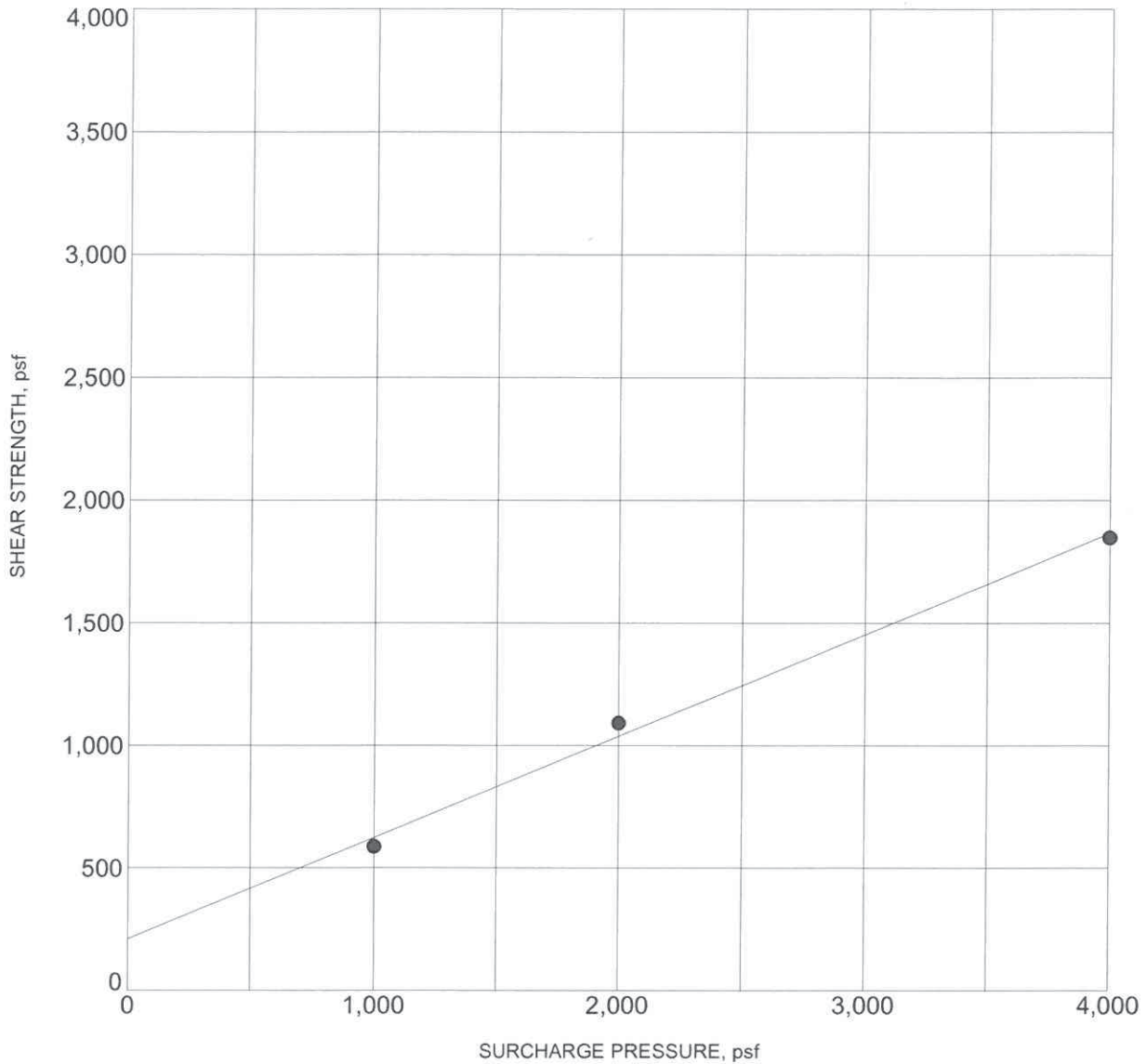
DIRECT SHEAR TEST RESULTS



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 CLEVELAND HIGH SCHOOL
 LOS ANGELES, CALIFORNIA
 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No. Drawing No.
 15-31-171-01 B-4a



BORING NO. :	BH-3	DEPTH (ft) :	20
DESCRIPTION :	SILTY CLAY (CL)		
COHESION (psf) :	210	FRICION ANGLE (degrees):	22
MOISTURE CONTENT (%) :	30.6	DRY DENSITY (pcf) :	90.3

NOTE: Ultimate Strength.

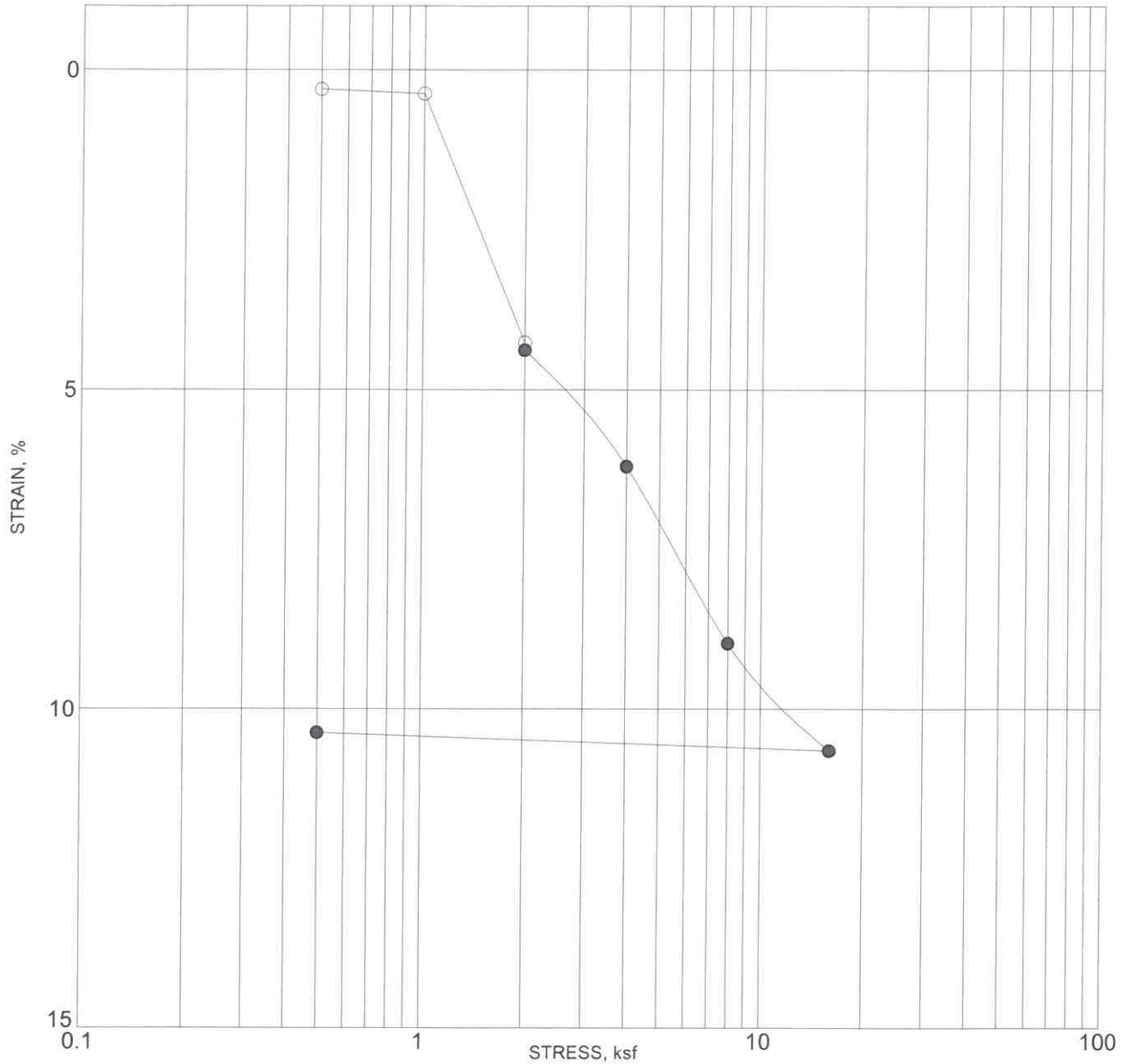
DIRECT SHEAR TEST RESULTS



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Project Name
 PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
 CLEVELAND HIGH SCHOOL
 LOS ANGELES, CALIFORNIA
 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No. Drawing No.
 15-31-171-01 B-4b



BORING NO. :		BH-1		DEPTH (ft) :		10	
DESCRIPTION :		CLAY (CL)					
	MOISTURE CONTENT (%)		DRY DENSITY (pcf)		PERCENT SATURATION		VOID RATIO
INITIAL	23		100				
FINAL	18		91				

NOTE: SOLID CIRCLES INDICATE READINGS AFTER ADDITION OF WATER

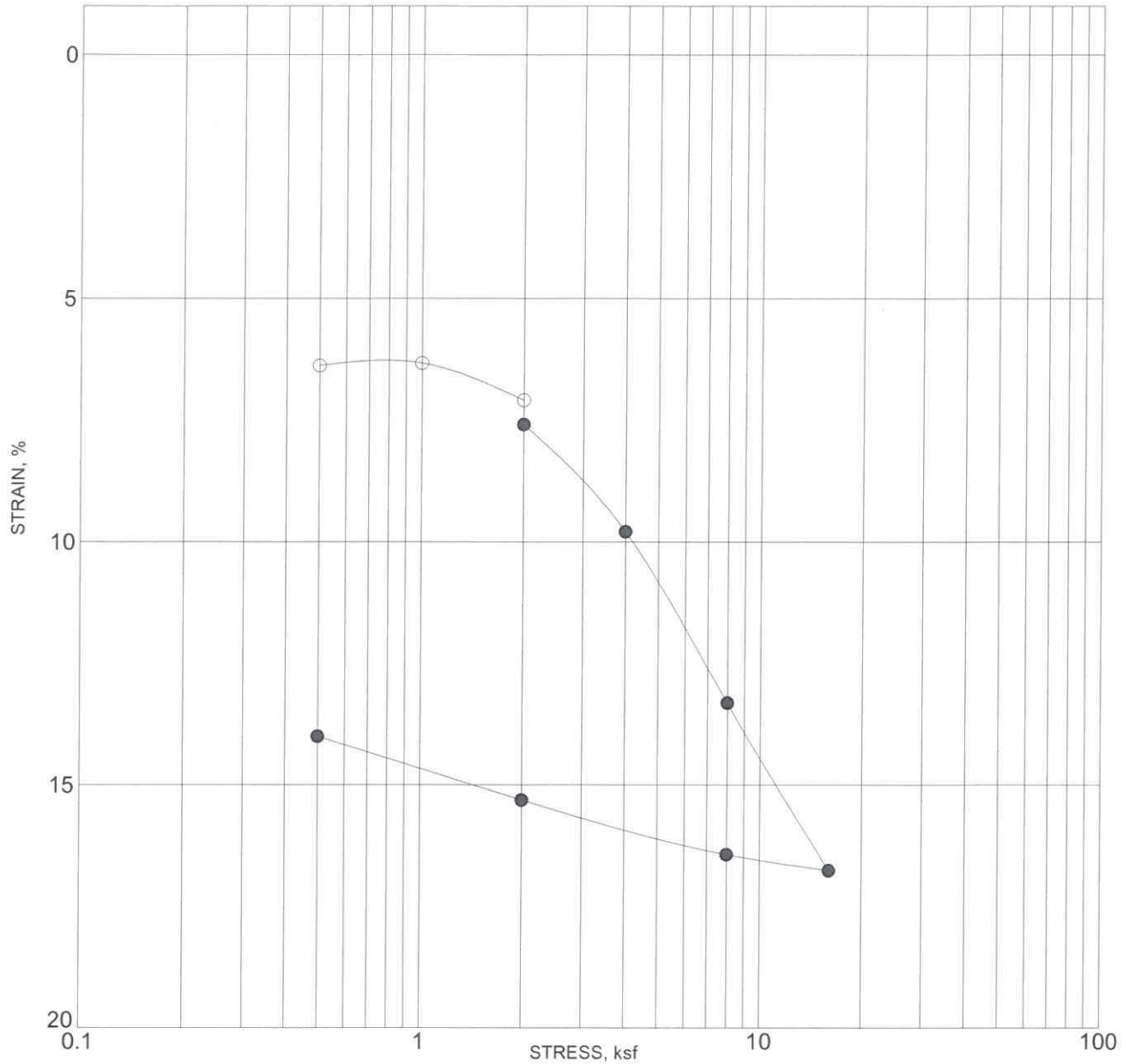
CONSOLIDATION TEST RESULTS



Converse Consultants

Project Name
 PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
 CLEVELAND HIGH SCHOOL
 LOS ANGELES, CALIFORNIA
 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No. Drawing No.
 15-31-171-01 B-5a



BORING NO. : BH-4		DEPTH (ft) : 15	
DESCRIPTION : CLAY (CL)			
MOISTURE CONTENT (%)	DRY DENSITY (pcf)	PERCENT SATURATION	VOID RATIO
INITIAL 34	87		
FINAL 26	76		

NOTE: SOLID CIRCLES INDICATE READINGS AFTER ADDITION OF WATER

CONSOLIDATION TEST RESULTS



Converse Consultants

Project Name
 PROPOSED COMPREHENSIVE MODERNIZATION PROJECT
 CLEVELAND HIGH SCHOOL
 LOS ANGELES, CALIFORNIA
 FOR: LOS ANGELES UNIFIED SCHOOL DISTRICT

Project No. Drawing No.
 15-31-171-01 B-5b

APPENDIX C
EARTHWORK SPECIFICATIONS

APPENDIX C

EARTHWORK SPECIFICATIONS

C1.1 Scope of Work

The work includes all labor, supplies and construction equipment required to construct the building pads in a good, workman-like manner, as shown on the drawings and herein specified. The major items of work covered in this section include the following:

- Site Inspection
- Authority of Geotechnical Engineer
- Site Clearing
- Excavations
- Preparation of Fill Areas
- Placement and Compaction of Fill
- Observation and Testing

C1.2 Site Inspection

1. The Contractor shall carefully examine the site and make all inspections necessary, in order to determine the full extent of the work required to make the completed work conform to the drawings and specifications. The Contractor shall satisfy himself as to the nature and location of the work, ground surface and the characteristics of equipment and facilities needed prior to and during prosecution of the work. The Contractor shall satisfy himself as to the character, quality, and quantity of surface and subsurface materials or obstacles to be encountered. Any inaccuracies or discrepancies between the actual field conditions and the drawings, or between the drawings and specifications must be brought to the Owner's attention in order to clarify the exact nature of the work to be performed.
2. This *Preliminary geohazard study Report* by Converse Consultants may be used as a reference to the surface and subsurface conditions on this project. The information presented in this report is intended for use in design and is subject to confirmation of the conditions encountered during construction. The exploration logs and related information depict subsurface conditions only at the particular time and location designated on the boring logs. Subsurface conditions at other locations may differ from conditions encountered at the exploration locations. In addition, the passage of time may result in a change in subsurface conditions at the exploration locations. Any review of this information shall not relieve the Contractor from performing such independent investigation and evaluation to satisfy himself as to the nature of the surface and subsurface conditions to be encountered and the procedures to be used in performing his work.



C1.3 Authority of the Geotechnical Engineer

1. The Geotechnical Engineer will observe the placement of compacted fill and will take sufficient tests to evaluate the uniformity and degree of compaction of filled ground.
2. As the Owner's representative, the Geotechnical Engineer will (a) have the authority to cause the removal and replacement of loose, soft, disturbed and other unsatisfactory soils and uncontrolled fill; (b) have the authority to approve the preparation of native ground to receive fill material; and (c) have the authority to approve or reject soils proposed for use in building areas.
3. The Civil Engineer and/or Owner will decide all questions regarding (a) the interpretation of the drawings and specifications, (b) the acceptable fulfillment of the contract on the part of the Contractor and (c) the matters of compensation.

C1.4 Site Clearing

1. Clearing and grubbing shall consist of the removal from building areas to be graded of all existing structures, pavement, utilities, and vegetation.
2. Organic and inorganic materials resulting from the clearing and grubbing operations shall be hauled away from the areas to be graded.

C1.5 Excavations

1. Based on observations made during our field explorations, the surficial soils can be excavated with conventional earthwork equipment.

C1.6 Preparation of Fill Areas

1. All organic material, organic soils, incompetent alluvium, undocumented fill soils and debris should be removed from the proposed building areas.
2. In order to provide uniform support for the new structures, the minimum depth of over-excavation should be four (4) feet below the existing grade, or 18 inches below proposed foundations whichever is deeper. Deeper over-excavation will be needed if soft, yielding soils are exposed on the excavation bottom. The actual depth of removal should be determined based on observations made during grading. Over-excavation should extend a least five (5) feet beyond the limits of footings, or equal distance of over-excavation depth, whichever is greater, or as limited by the existing structures. Excavation activities should not disturb existing utilities, buildings, and remaining structures. Existing utilities should be removed and adequately capped at the project boundary line, or salvaged/rerouted as designed for sidewalks and flatwork area, at least the upper 24 inches of existing

soils should be scarified and recompact to at least 90 percent of compaction. Deeper over-excavation will be needed if soft, yielding soils are exposed on the excavation bottom. The excavation should be extended to at least 12 inches beyond the driveway and flatwork limit where space is permitted.

3. The subgrade in all areas to receive fill shall be scarified to a minimum depth of six inches, the soil moisture adjusted within three (3) percent above optimum, and then compacted to at least 90 percent of the laboratory maximum dry density as determined by ASTM Standard D1557 test method.
4. Compacted fill may be placed on native soils that have been properly scarified and re-compacted as discussed above.
5. All areas to receive compacted fill will be observed and approved by the Geotechnical Engineer before the placement of fill.

C1.7 Placement and Compaction of Fill

1. Compacted fill placed for the support of footings, slabs-on-grade, exterior concrete flatwork, and driveways will be considered structural fill. Structural fill may consist of approved on-site soils or imported fill that meets the criteria indicated below.
2. Fill consisting of selected on-site earth materials or imported soils approved by the Geotechnical Engineer shall be placed in layers on approved earth materials. Soils used as compacted structural fill shall have the following characteristics:
 - a. All fill soil particles shall not exceed three (3) inches in nominal size, and shall be free of organic matter and miscellaneous inorganic debris and inert rubble.
 - b. Imported fill materials shall have an Expansion Index (EI) less than 20. All imported fill should be compacted to at least 90 percent of the laboratory maximum dry density (ASTM Standard D1557) at about to three percent above optimum moisture.
3. Fill soils shall be evenly spread in maximum 8-inch lifts, watered or dried as necessary, mixed and compacted to at least the density specified below. The fill shall be placed and compacted on a horizontal plane, unless otherwise approved by the Geotechnical Engineer.
4. All fill placed at the site shall be compacted to at least 90 percent of the laboratory maximum dry density as determined by ASTM Standard D1557 test method. The on-site soils shall be moisture conditioned at approximate three (3) percent above the optimum moisture content.

5. Representative samples of materials being used, as compacted fill will be analyzed in the laboratory by the Geotechnical Engineer to obtain information on their physical properties. Maximum laboratory density of each soil type used in the compacted fill will be determined by the ASTM Standard D1557 compaction method.
6. Fill materials shall not be placed, spread or compacted during unfavorable weather conditions. When site grading is interrupted by heavy rain, filling operations shall not resume until the Geotechnical Engineer approves the moisture and density conditions of the previously placed fill.
7. It shall be the Grading Contractor's obligation to take all measures deemed necessary during grading to provide erosion control devices in order to protect slope areas and adjacent properties from storm damage and flood hazard originating on this project. It shall be the contractor's responsibility to maintain slopes in their as-graded form until all slopes are in satisfactory compliance with job specifications, all berms have been properly constructed, and all associated drainage devices meet the requirements of the Civil Engineer.

C1.8 Trench Backfill

The following specifications are recommended to provide a basis for quality control during the placement of trench backfill.

1. Trench excavations to receive backfill shall be free of trash, debris or other unsatisfactory materials at the time of backfill placement.
2. Trench backfill shall be compacted to a minimum relative compaction of 90 percent as per ASTM Standard D1557 test method.
3. Rocks larger than one inch should not be placed within 12 inches of the top of the pipeline or within the upper 12 inches of pavement or structure subgrade. No more than 30 percent of the backfill volume shall be larger than 3/4-inch in largest dimension. Rocks shall be well mixed with finer soil.
4. The pipe design engineer should select bedding material for the pipe. Bedding materials generally should have a Sand Equivalent (SE) greater than or equal to 30, as determined by the ASTM Standard D2419 test method.
5. Trench backfill shall be compacted by mechanical methods, such as sheepsfoot, vibrating or pneumatic rollers, or mechanical tampers, to achieve the density specified herein. The backfill materials shall be brought to between optimum and three percent above optimum, then placed in horizontal layers. The thickness of uncompacted layers should not exceed eight inches. Each layer shall be evenly

spread, moistened or dried as necessary, and then tamped or rolled until the specified density has been achieved.

6. The contractor shall select the equipment and processes to be used to achieve the specified density without damage to adjacent ground and completed work.
7. The field density of the compacted soil shall be measured by the ASTM Standard D1556 or ASTM Standard D2922 test methods or equivalent.
8. Observation and field tests should be performed by Converse during construction to confirm that the required degree of compaction has been obtained. Where compaction is less than that specified, additional compactive effort shall be made with adjustment of the moisture content as necessary, until the specified compaction is obtained.
9. It should be the responsibility of the Contractor to maintain safe conditions during cut and/or fill operations.
10. Trench backfill shall not be placed, spread or rolled during unfavorable weather conditions. When the work is interrupted by heavy rain, fill operations shall not be resumed until field tests by the project's geotechnical consultant indicate that the moisture content and density of the fill are as previously specified.

C1.9 Observation and Testing

1. During the progress of grading, the Geotechnical Engineer will provide observation of the fill placement operations.
2. Field density tests will be made during grading to provide an opinion on the degree of compaction being obtained by the contractor. Where compaction of less than specified herein is indicated, additional compactive effort with adjustment of the moisture content shall be made as necessary, until the required degree of compaction is obtained.
3. A sufficient number of field density tests will be performed to provide an opinion to the degree of compaction achieved. In general, density tests will be performed on each one-foot lift of fill, but not less than one for each 500 cubic yards of fill placed.

Appendix E

Phase I Environmental Site Assessment

**PHASE I ENVIRONMENTAL SITE ASSESSMENT
CLEVELAND CHARTER HIGH SCHOOL
8140 VANALDEN AVENUE
RESEDA, CALIFORNIA 91335**

PREPARED FOR:

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

PREPARED BY:

Ninyo & Moore
Geotechnical and Environmental Sciences Consultants
475 Goddard, Suite 200
Irvine, California 92618

August 16, 2016
Project No. 208571012

August 16, 2016
Project No. 208571012

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

Subject: Phase I Environmental Site Assessment
Cleveland Charter High School
8140 Vanalden Avenue
Reseda, California 91335

Dear Mr. Schanen:

In accordance with your authorization of our proposal dated June 1, 2016, Ninyo & Moore has performed a Phase I Environmental Site Assessment of the above-referenced site, and prepared the attached report. The attached report presents our findings, conclusions, and recommendations.

Sincerely,
NINYO & MOORE



Patrick Cullip
Project Engineer



John Jay Roberts, PG, CEG
Principal Geologist

PJC/JJR/sc

Distribution: (3) Addressee (1 hard copy and 2 CDs)

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EXECUTIVE SUMMARY

Ninyo & Moore was retained by Los Angeles Unified School District (the District) to perform a Phase I Environmental Site Assessment (ESA) of Cleveland Charter High School at 8140 Vanalden Avenue in the community of Reseda, Los Angeles, California. The format and content of the Phase I ESA Report are in general accordance with ASTM International (ASTM) Standard Practice for Environmental Site Assessments: Phase I Site Assessment (Standard Designation E 1527-13) approved on November 1, 2013, the United States Environmental Protection Agency (EPA) 40 Code of Federal Regulations Part 312 Standards and Practices for All Appropriate Inquiries (AAI) – Final Rule adopted November 1, 2006, and the District’s Phase I ESA requirements. Historical research, document review, and site assessment activities were performed between June 14, 2016 and July 15, 2016.

The approximate 37-acre site is developed with Cleveland Charter High School. According to the Los Angeles County Assessor, the site is designated as Assessor’s Parcel Number 2104-004-905. The site includes several permanent and portable buildings, athletic fields, and playground areas. The following table includes addresses associated with the site, building names and uses, and approximate year of construction. Buildings are referred to in the report by the building name.

Address	Building Name and Use	Approximate Year (Year Built, Additions)
8140 Vanalden Avenue	Administration	1959
	A through G – Classrooms	1959
	H and J – Portable Classrooms	1959, 1967, 1977, 1989, 2005
	K – Classrooms	1959
	Media Center	1959
	N – Fitness	1959
	Custodian – Storage	1959
	Gymnasium	1959
	X through Z – Storage	1977
8218 Vanalden Avenue	Miller Career and Transition Center	1959, 1967, 1977, 1979
8120 Vanalden Avenue	Cleveland Swimming Pool	1995
19031 Strathern Street	Cleveland Early Education Center Q - Classrooms	2002
18913½ Strathern Street	Former Hub 9 – Time Warner (fiber optic)	2000

Based on our review of historical sources, the site was undeveloped in 1903 and agricultural land from 1928 through 1952. Potential presence of residual agricultural chemicals in site soils is considered a de minimis condition. The site was developed as Cleveland High School by 1959. Other buildings used by the school have been erected over time on the site from 1967 through 2002. The site has remained relatively unchanged from 2002 through the time of this report. Properties adjacent to the site were generally agricultural from 1928 through 1947. Residential and some commercial properties were developed in the site vicinity from 1938 through 2012. Aliso Canyon Wash and high voltage power lines were developed adjacent to the east of the site by 1964 and 1967, respectively. A gasoline service station (former Thrifty #0069 at 18904 Roscoe Boulevard) operated approximately 150 feet east-northeast of the site from 1967 through 1983.

Asbestos management and abatement plans were observed in the Administration building. According to Mr. Eric Longenecker (District representative), on site asbestos-containing materials (ACMs) and lead-based paint (LBP) will be managed separately during the planned demolition, construction, and renovation activities by following the existing management plans. Suspect ACMs and painted surfaces were observed to be in good condition.

To date, Ninyo & Moore has not been provided records from the Los Angeles Fire Department – Underground Storage Tank (LAFD – UST) Division concerning the former gasoline service station at 18904 Roscoe Boulevard. This is considered a data gap. If information from the LAFD – UST Division alters the conclusions and recommendations of this report, an addendum will be prepared.

This Phase I ESA revealed no evidence of recognized environmental conditions (RECs) in connection with the site, except for the following:

- Two inactive clarifiers associated with former automotive shop classes near Buildings A and N and an interceptor near the Media Center Building (including a potential vapor encroachment condition).
- The suspected presence of former hydraulic lifts in Building N.

- Based on the age of the current site buildings, persistent termiticides (organochlorine pesticides or OCPs and lead (from LBP) may be present in shallow soil around building foundations.
- Polychlorinated biphenyl (PCB)-containing materials may be present from on-site pad mounted transformers installed prior to 1979.
- Arsenic in shallow soil underneath asphaltic concrete (AC) pavement may be present due to the Los Angeles Unified School District's (LAUSD or District) former standard practice of applying herbicides containing this metal prior to paving.

The following off-site features were identified during the Phase I ESA:

- High pressure natural gas pipelines are present beneath Roscoe Boulevard (adjacent to the north) and Wilbur Avenue (adjacent to the east). According to the Gas Company, the pipeline beneath Roscoe Boulevard has a 16-inch diameter, and the pipelines beneath Wilbur Avenue have 8- and 36-inch diameters.
- An inactive oil transmission pipeline is beneath Roscoe Boulevard.
- High voltage power lines are adjacent to the east of the site.

Based on the findings of the Phase I ESA, additional environmental assessment is recommended for the site, as discussed below:

- In locations of future construction, the possible presence of PCBs, OCPs, arsenic, and lead in shallow soil at the site should be assessed in the form of a Preliminary Environmental Assessment-Equivalent (PEA-E) and in general accordance with California Department of Toxic Substances Control (DTSC) guidance documents (DTSC, 2002, 2003, and 2006).
- If construction or demolition activities are planned for buildings near the inactive clarifiers, interceptor, or suspected former hydraulic lifts, soil and soil vapor should be evaluated to determine the extent of site contamination, if any.
- If construction or demolition activities are planned along Roscoe Boulevard, a pipeline risk analysis should be conducted in accordance with California Department of Education (CDE) requirements.
- An evaluation of electromagnetic fields adjacent to the power lines east of the site should be conducted if habitable structures are planned within 100 feet, in accordance with CDE guidelines.

1. INTRODUCTION

Ninyo & Moore conducted this Phase I Environmental Site Assessment (ESA) of Cleveland Charter High School located at 8140 Vanalden Avenue in the community of Reseda, Los Angeles, California (hereinafter referred to as the Site or subject Site). This ESA was conducted for the Los Angeles Unified School District (LAUSD or District), in general accordance with our proposal dated June 1, 2016. The following sections identify the purpose, the involved parties, the scope of services, and the limitations and exceptions associated with this Phase I ESA.

1.1. Purpose

The objective of the Phase I ESA is to evaluate, in general accordance with the process described in ASTM International (ASTM) E1527-13, recognized environmental conditions (RECs), which are defined by ASTM as “the presence or likely presence of any hazardous substance or petroleum products in, on, or at a property: (1) due to a release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.”

As defined in ASTM E1527-13, de minimis conditions are not considered RECs. A de minimis condition is defined as “a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.”

It is our understanding that the District is planning modernization of the existing school. Therefore, this Phase I ESA includes the evaluation of additional possible conditions in accordance with Sections 17210-17213 and 17251 of the California Education Code; Title 5, Sections 14010, 14011, and 14012 of the California Code of Regulations; Assembly Bill 2644 and with the California Department of Education’s (CDE) School Site Selection and Approval Guide (CDE, 2000).

1.2. Involved Parties

Mr. Patrick Cullip of Ninyo & Moore conducted the site reconnaissance on June 30, 2016, and performed interviews, regulatory inquiries, historical research, and document review.

Mr. John Jay Roberts of Ninyo & Moore performed project oversight and quality review. Resumes of professionals conducting this Phase I ESA are provided in Appendix A. The Phase I ESA was prepared for the District (client/user).

1.3. Scope of Services

Ninyo & Moore's scope of services for this Phase I ESA included the tasks listed below.

- Review of available federal, state, and local regulatory agency database for the site and for properties located within the ASTM recommended search radius of the site. The purpose of this review is to evaluate possible environmental impacts to the subject site. Databases identify locations of known hazardous waste sites, landfills, leaking underground storage tanks (LUSTs), permitted facilities that utilize aboveground or underground storage tanks, and facilities that used, stored, or disposed hazardous materials.
- Perform a site and vicinity reconnaissance to visually identify areas of possibly contaminated surficial soil or surface water, improperly stored hazardous materials, suspect asbestos-containing materials (ACMs), suspect lead-based paint (LBP), possible sources of polychlorinated biphenyls (PCBs), and possible risk of contamination from activities at the site and adjacent or nearby properties.
- Request the local Air Quality Management District to evaluate properties within ¼ mile of the site for possible activities that may reasonably be anticipated to have hazardous air emissions.
- On behalf of the District, request records in writing from the California State Fire Marshal regarding the possible presence of underground hazardous materials-conveying pipelines within 1,500 feet of the site along with the local natural gas utility (Sempra Gas Energy) information for review and incorporation into the report.
- Review the city utility maps for information on high pressure gas lines, water lines, and electric transmission lines on or within 1,500 feet of the site.
- Review the topographic maps for information on railroad tracks on or within 1,500 feet of the site.
- Meet with and/or review files from appropriate state and local regulatory agencies having files or information relative to the subject site. Requests were made to the Los Angeles Department of Health Services, the local Air Quality Management District, the Los Angeles Fire Department (LAFD), the Los Angeles Regional Water Quality Control Board, the California Department of Toxic Substances Control (DTSC), and to other agencies as appropriate.

- Review readily available historical resources, including, aerial photographs, topographic maps, city directories, building department records, and fire insurance maps of the subject site and vicinity.
- Review readily available maps and reports pertaining to the environmental condition of the site.
- Review the site specific and regional geology and hydrogeology. Specific information that was obtained includes depth to groundwater, groundwater flow direction, and regional groundwater quality. This type of information was used to evaluate the likelihood that off-site sources of hazardous materials have impacted the soil and groundwater beneath the site.
- Review available land title reports and archived plot plan school drawings (if available and provided by the District) pertaining to the subject site and identify any potential RECs as part of the Phase I ESA.
- Prepare this Phase I ESA report documenting findings and providing opinions and recommendations regarding possible environmental impacts at the site.

Site photographs are attached as Appendix B. Supporting documents are attached as Appendix C. The results of the Environmental Database Search are attached as Appendix D. Copies of the aerial photographs reviewed in conjunction with this report are attached as Appendix E. An OEHS checklist is attached as Appendix F, and a Vapor Encroachment Screening is attached as Appendix G.

1.4. Limitations and Exceptions

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard of care exercised by environmental consultants performing similar work in the project area. No further warranty, expressed or implied, is made regarding the professional opinions presented in this report.

In accordance with ASTM E1527-13, the following, which is not intended to be all inclusive, represents out-of-scope items with respect to this Phase I ESA and, therefore, is not to be addressed:

- Regulatory compliance,

- Cultural and historic risk,
- Industrial hygiene,
- Health and safety,
- Ecological resources,
- Endangered species,
- Indoor air quality, and
- Interpretations of zoning regulations, building code requirements, or property title issues.

An All Appropriate Inquiries (AAI) questionnaire was provided to the District. To date, the District has not provided the completed questionnaire to Ninyo & Moore for review.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information or has questions regarding the content, interpretations presented, or completeness of this document.

The findings, opinions, and conclusions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control. Ninyo & Moore cannot warrant or guarantee that not finding indicators of any particular hazardous material means that this particular hazardous material or any other hazardous materials do not exist on the site. Additional research, including invasive testing, can reduce the uncertainty, but no techniques now commonly employed can eliminate the uncertainty altogether.

1.5. User Reliance

This report may be relied upon by, and is intended exclusively for, the client and its assigns. Any use or reuse of the findings, opinions, and/or conclusions of this report by parties other than the client is undertaken at said parties' sole risk.

2. GENERAL SITE CHARACTERISTICS

The following sections describe the location and the current uses of the site. The uses of adjacent properties are also described.

2.1. Location and Legal Description

The site is at 8140 Vanalden Avenue in the community of Reseda, Los Angeles, California (Figure 1). According to the United States Geological Survey (USGS) Canoga Park Quadrangle Map, dated 1952 (photorevised in 1967), the site is located in Township 2 North, Range 16 West. According to the Los Angeles County Assessor, the site is designated as Los Angeles County Assessor's Parcel Number (APN) 2104-004-905. This parcel includes the Miller Career and Transition Center (MC&TC) located at the southeast intersection of Roscoe Boulevard and Vanalden Avenue (8218 Vanalden Avenue). MC&TC was not inspected as part of the current investigation.

2.2. Current Title Information

Available land title reports pertaining to the subject site were not provided by the District for review or requested from EDR.

2.3. Adjacent Properties

The site is bound to the north by Roscoe Boulevard, beyond which are residential properties. The site is bound to the east by a high voltage power line right-of-way (northern 4/5) and Wilbur Avenue (southern 1/5). Beyond these features are the Aliso Canyon Wash and then, residential and some commercial properties. The site is bound to the south by Strathern Street, beyond which are residential properties. The site is bound to the west by Vanalden Avenue, beyond which are residential properties (Figure 2).

2.4. Site Description and Current Site Uses/Operations

The following sections present a description of the current site structures, the current site occupants and activities, the heating and cooling systems utilized in the site buildings, the sewage disposal system, and the potable water provider for the site.

2.4.1. Site Description

The approximate 37-acre site (per assessor map, including MC&TC) is developed with Cleveland Charter High School. The site includes several permanent and portable buildings, athletic fields, and playground areas. Cantara Street trends east-west through the northern portion of the site. An associated alleyway trends north-south from Cantara Street (private) through the center of the site to Strathern Street. The following table includes addresses associated with the site, building names and uses, and approximate year of construction. Buildings are referred to in the report by the building name. Site photographs are included in Appendix B.

Address	Building Name and Use	Approximate Year (Year Built, Additions)
8140 Vanalden Avenue	Administration	1959
	A through G – Classrooms	1959
	H and J – Portable Classrooms	1959, 1967, 1977, 1989, 2005
	K – Classrooms	1959
	Media Center	1959
	N – Fitness	1959
	Custodian – Storage	1959
	Gymnasium	1959
	X through Z – Storage	1977
8218 Vanalden Avenue	Miller Career and Transition Center	1959, 1967, 1977, 1979
8120 Vanalden Avenue	Cleveland Swimming Pool	1995
19031 Strathern Street	Cleveland Early Education Center Q - Classrooms	2002
18913½ Strathern Street	Former Hub 9 – Time Warner (fiber optic)	2000

2.4.2. Occupants

The site is currently occupied by Cleveland Charter High School, including the MC&TC, Cleveland Swimming Pool, and Cleveland Early Education Center.

2.4.3. Heating and Cooling Systems

Heating and cooling systems use electricity and natural gas. Electricity is provided to the site by the Los Angeles Department of Water and Power (LADWP). Natural gas is provided to the site by the Southern California Gas Company, a Sempra Energy Utility (Gas Company).

2.4.4. Sewage Disposal/Septic Systems

Sewage disposal services are provided to the site by the LADWP.

2.4.5. Potable Water

Potable water is provided to the site by LADWP.

3. HISTORICAL LAND USE

Ninyo & Moore conducted historical records search for both the site and surrounding areas. This included a review of one or more of the following sources that were found to be both reasonably ascertainable and useful for the purposes of this Phase I ESA: historical aerial photographs, historical city directories, building permits and plans, topographic maps, and zoning/land use records. Pertinent records are provided in Appendix C.

Based on our review of historical sources, the site was undeveloped in 1903 and agricultural land from 1928 through 1952. The site was developed as Cleveland High School by 1959. Other buildings used by the school have been erected over time on the site from 1967 through 2002. The site has remained relatively unchanged from 2002 through the time of this report. Properties adjacent to the site were generally agricultural from 1928 through 1947. Residential and some commercial properties were developed in the site vicinity from 1938 through 2012. Aliso Canyon Wash and high voltage power lines were developed adjacent to the east of the site by 1964 and 1967, respectively. A gasoline service station (former Thrifty #0069 at 18904 Roscoe Boulevard) was operated east of Aliso Canyon Wash from 1967 through 1983.

The following sections summarize information obtained from the historical sources utilized for this assessment.

3.1. Historical Aerial Photographs

Historical aerial photographs were provided by Environmental Data Resources, Inc. (EDR) of Shelton, Connecticut for the site vicinity for selected years from 1928, 1938, 1947, 1952, 1964, 1967, 1977, 1979, 1981, 1983, 1989, 1995, 2002, 2005, 2009, 2010 and 2012. A description of the notable observations and interpreted uses is presented in Table 2.

Table 1 – Aerial Photograph Summary

Year	Site	North	East	South	West
1928	The site was developed with agricultural land. A residential structure was observed in the southeast portion of the site.	Roscoe Boulevard, beyond which was agricultural land with a residential property.	Agricultural land, beyond which was Wilbur Avenue and agricultural land with some residential properties.	Strathern Street, beyond which was agricultural with some residential properties.	Agricultural land.
1938 1947	Similar to that observed in the 1928 aerial photograph.	Similar to that observed in the 1928 aerial photograph.	Additional residential properties.		Vanalden Avenue.
1952	Similar to that observed in the 1947 aerial photograph.	Similar to that observed in the 1947 aerial photograph.	Additional residential properties.		Residential properties under development.
1964	The site was developed with Cleveland High School, including current classrooms, gymnasium, athletic fields, and access roads.	Dwelling remains at the northeast corner of Roscoe and Vanalden, then residential properties developed north.	Aliso Canyon Wash was developed, beyond which was vacant land and residential properties.	Additional residential properties.	
1967	Additional portable classrooms, structures, and parking lots in the northeast portion of the site.	Similar to that observed in the 1964 aerial photograph.	High voltage power lines, beyond which were additional residential properties, Aliso Canyon Wash, and further east, a gasoline service station.	Similar to that observed in the 1964 aerial photograph.	
1977	Additional portable classroom in the northeast portion of the site.	Similar to that observed in the 1967 aerial photograph.	Gasoline service station was redeveloped.	Similar to that observed in the 1967 aerial photograph.	
1979	Additional portable classroom in the northern portion of the site. Additional structure in the southeast portion of the site (east of baseball field).	Additional residential properties.	Similar to that observed in the 1977 aerial photograph.		
1981 1983	Similar to that observed in the 1979 aerial photograph.	Similar to that observed in the 1979 aerial photograph.			
1989	Additional portable classrooms in the northeast portion of the site.	Similar to that observed in the 1983 aerial photograph.	Vacant lot in location of former gasoline service station east of Aliso Canyon Wash.	Similar to that observed in the 1983 aerial photograph.	

Table 1 – Aerial Photograph Summary

Year	Site	North	East	South	West
1995	Swimming pool building in the southwest portion of the site.	Similar to that observed in the 1989 aerial photograph.	Agricultural development in power lines right-of-way.	Similar to that observed in the 1989 aerial photograph.	
2002	Additional structures in the northern and southern portions of the site.	Similar to that observed in the 1995 aerial photograph.	Strip mall in location of vacant lot, additional agricultural development in power lines right-of-way.	Similar to that observed in the 1995 aerial photograph.	
2005 2009	Similar to that observed in the 2002 aerial photograph.	Similar to that observed in the 2002 aerial photograph.			
2010 2012	Similar to that observed during the site reconnaissance.	Similar to that observed during the site reconnaissance.			

The site was developed as agricultural land from 1928 through 1952, and as Cleveland Charter High School from 1964 through 2012. Additional structures, portable classrooms, and parking lots were developed on the site from 1967 through 2002.

Adjacent properties were generally agricultural from 1928 through 1947. Residential and some commercial properties were developed in the site vicinity from 1938 through 2012. Aliso Canyon Wash and high voltage power lines were developed adjacent to the east of the site by 1964 and 1967, respectively. A gasoline service station appeared approximately 150 feet east-northeast of the site from 1967 through 1983. The gasoline service station is further discussed in Section 3.3.

Copies of the aerial photographs are included in Appendix E.

Based on the historical agricultural use of the property, commercial pesticides and herbicides have possibly been applied to the site and site vicinity during the agricultural use of the land. Residual concentrations of these substances and/or their breakdown derivatives may be present in the site soils. The historical aerial photographs reviewed by Ninyo & Moore did not indicate the presence of buildings or other structures on the site where pesticides or

herbicides may have been mixed or stored. Based on our experience, it is our opinion that the former agricultural usage of the site is considered a *de minimis* condition.

3.2. Fire Insurance Rate Maps

Sanborn Fire Insurance maps were requested from EDR; however, EDR reported that fire insurance maps covering the target property were not found. The Certified Sanborn Map Report is provided in Appendix C.

3.3. City Directories

City directories were provided by EDR from 1920 to 2013. City directory listings for the site were not available prior to 1965. The following is a summary of the city directories reviewed.

The site address of 8140 Vanalden Avenue was listed as Cleveland High School from 1965 through 2013. The site address of 8120 Vanalden Avenue was listed in 2004, with “no info” under property use. The other site addresses were not listed. The closed LUST case at 18904 Roscoe Boulevard (east of Aliso Canyon Wash) was listed as American Oil Co. Service Stations Northridge in 1970 and 1980 and as a restaurant in 2004. This facility is further discussed in Section 7.12. Other properties in the site vicinity were listed primarily as residential with some commercial. The adjacent property to the west of the site at 19106 Cantara Street was listed as Reseda Auto Body and Paint in 2008. This property is further discussed in Section 7.20.

3.4. Building Permits

Ninyo & Moore reviewed building permits for the site on the Los Angeles Department of Building and Safety Permit and Inspection Report website (https://www.permitla.org/ipars/The_index.cfm). The following table is a summary of our review.

Site Address	Year	Building Permit
8140 Vanalden Avenue	N/A	None
8120 Vanalden Avenue	1999	Electrical – Pool bonding and misc. wiring (cancelled)
		Electrical – additional lights in pool room
8218 Vanalden Avenue	N/A	None
18913 Strathern Street	N/A	None
18913½ Strathern Street	1999	Electrical – Install service and sub-panel (expired in 2008)
	2000	Construction of fiber optic hub building
19031 Strathern Street	N/A	None
8035 Wilbur Avenue	N/A	None
18950 Roscoe Boulevard	2000	Construction of fiber optic hub building

The information contained in the building permits is not indicative of environmental concern.

3.5. Land Title Records

Historical land title records were not readily available.

3.6. Historical Topographic Maps

Historical topographic maps were provided by EDR from 1903 to 2012. The site was undeveloped in the 1903 historical topographic map. A structure was developed in the southeast portion of the site from 1928 through 1952. Two additional structures were developed in the southern portion of the site by 1952. By 1967, the site was developed with Cleveland High School, including several structures and access roads.

Roscoe Boulevard and Wilbur Avenue were developed by 1928 to the north and east of the site, respectively. Strathern Street was developed by 1932 to the south of the site. Vanalden Avenue was developed to the west of the site by 1941. Aliso Canyon Wash was developed to the east of the site by 1952, and in its current configuration by 1967. The regional topography is shown gently sloping to the southeast.

3.7. Property Tax Records

Historical property tax records were not provided by the client for review or researched at <http://assessor.lacounty.gov/>.

3.8. Zoning/Land Use Records

According to the Los Angeles City Zone Information and Map Access System (ZIMAS) website (ZIMAS, 2016), the site is currently zoned “PF-1XL,” for public facilities zone, which includes public elementary and secondary schools. Based on a review of the ZIMAS website, the following addresses are also associated with the site:

- 18913, 18913½, and 19031 West Strathern Street
- 8120 and 8218 North Vanalden Avenue
- 8035 Wilbur Avenue
- 18950 West Roscoe Boulevard

3.9. Interviews

Ninyo & Moore interviewed Mr. Eric Longenecker, project manager and contract professional at the Los Angeles Unified School District, Office of Environmental Health & Safety, and Mr. Javier Pena, plant manager at the Cleveland Charter High School. Both Mr. Longenecker and Mr. Pena indicated that they did not have knowledge of above or underground storage tanks or water treatment on the site. On-site hazardous waste storage, clarifiers, and other site observations are discussed in Section 5.

3.10. Environmental Reports and Documents

The following reports and documents were provided by the District for review.

3.10.1. Patriot Environmental Services, 2008, Certification Report of Exported Soils Testing, dated October 6.

In September 2008, Patriot Environmental Services (Patriot) conducted soil stockpile sampling for waste characterization of approximately 800 to 900 cubic yards of stockpiled soil to the east of the football field, in the southeast portion of the site. The source of the stockpile was not identified in the report. Patriot collected three vertical samples at different depths at four stockpile locations. The three vertical samples were composited by the laboratory, and the four composite samples were analyzed for total petroleum hydrocarbons (TPHs), volatile organic compounds (VOCs), PCBs, semi-

VOCs (SVOCs), organochlorine pesticides (OCPs), organophosphorous pesticides (OPPs), chlorinated herbicides (CHs), hexavalent chromium, arsenic/thallium, and other Title 22 Metals. Analytical results indicated that District contamination limits for benzene, ethylbenzene, and toluene were exceeded for use at a school site. Patriot classified the soil as non-hazardous waste and recommended the soil be transported and disposed of or reused at an appropriate facility within 90 days.

3.10.2. Patriot Environmental Services, 2008, Certification Report of Exported Soils Testing – Phase 2, dated December 10.

In December 2008, Patriot conducted soil stockpile sampling for waste characterization of approximately 900 to 999 cubic yards of additional excavated soil. The excavated soil was also stockpiled to the east of the football field, in the southeast portion of the site. The source of the additional stockpiled soil was not identified in the report. Patriot collected three vertical samples at different depths at four stockpile locations. The three vertical samples were composited by the laboratory, and the four composite samples were analyzed for TPHs, VOCs, PCBs, SVOCs, OCPs, OPPs, CHs, hexavalent chromium, arsenic/thallium, and other Title 22 Metals. Analytical results indicated that District contamination limits for benzene, ethylbenzene, and toluene were exceeded for use at a school site. Patriot classified the soil as non-hazardous waste and recommended the soil be transported and disposed of or reused at an appropriate facility within 90 days.

3.10.3. Citadel Environmental Services, 2010, Certification Report, Grover Cleveland High School, 8140 Vanalden Avenue, Los Angeles, California, dated January 25.

In January 2010, Citadel Environmental Services (Citadel) conducted soil stockpile sampling for waste characterization of approximately five to six cubic yards of excavated soil. The excavated soil was stockpiled to the west of the administration building, in the northwest portion of the site. The soil was excavated from a trench to be used as an underground fiber optic cable connection between the school's main

distribution frame and AT&T's metropolitan area network. Citadel collected three samples in different areas of the stockpile. The three samples were composited by the laboratory, and the one composite sample was analyzed for TPHs, VOCs, PCBs, SVOCs, OCPs, OPPs, CHs, hexavalent chromium, arsenic/thallium, and other Title 22 Metals. Analytical results indicated a presence of TPH in the oil range at a concentration of 81 milligrams per kilogram (mg/kg), below the "not to exceed level" of 1,000 mg/kg. Citadel classified the soil as non-hazardous waste and deemed the soil acceptable for use at other school sites.

3.10.4. District Archive Files

Ninyo & Moore was provided copies of archive files for the site. Files included site drawings, grading plans, roof plans, and paving ground plans from 1957 through 2002. A transformer compound was observed in the 1967 through 2000 plans in the eastern portion of the site, between the current H and J Buildings. The transformer compound was not observed during the site reconnaissance. The former transformer compound represents a REC. District archive files are included in Appendix C.

4. PHYSICAL SETTING

The following sections include discussions of the topographic, geologic, and hydrogeologic conditions based upon our document review and our visual reconnaissance of the site and adjacent areas.

4.1. Site Topography

Based on our review of the USGS Topographic map, Canoga Park Quadrangle, California, dated 1952 (Photorevised in 1967), the site elevation is approximately 770 feet above mean seal level. The site is shown as relatively flat with no significant topographical features. The regional topography is generally shown gently sloping to the southeast.

4.2. Oil and Gas Maps

According to the State of California, Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), Well Finder website (DOGGR, 2016), the site does not lie within the administrative boundaries of an oil field. Several oil wells were observed within a one-mile boundary of the site. The nearest oil well, a plugged oil well operated by ARCO Oil and Gas Company, was approximately 0.42 mile northwest and up-gradient of the site. This information is not considered a REC to the site. Methane is discussed in Section 6.10.

4.3. Site Geology

The site is located in the central area of the Transverse Ranges Geomorphic Province of California. Locally, the site is situated within the western portion of the San Fernando Valley. The San Fernando Valley is bounded by the San Gabriel Mountains to the northeast; the Santa Susana Mountains to the northwest; the Verdugo Mountains to the east; the Santa Monica Mountains to the south; and the Simi Hills to the west. The site area is underlain primarily by alluvial gravel, sand and clay (Dibblee, 1992).

4.4. Site Hydrology

The following sections discuss the site hydrology in terms of both surface waters and groundwater.

4.4.1. Surface Waters

Natural surface water bodies, such as streams, rivers, ponds, and lakes, are not present at the site. The Aliso Canyon Wash is located approximately 100 feet east of the site.

4.4.2. Groundwater

Groundwater information specific to the site was not available. According to the State Water Resources Control Board (SWRCB) GeoTracker website (www.geotracker.swrcb.ca.gov), groundwater was measured in December 2012 at the Tampa Center at 8235 Tampa Avenue, approximately 0.27 mile west and up to cross-gradient of the site. Groundwater was reported to be approximately 12.5 to 14.4 feet bgs, with groundwater flowing to the south-southeast, in the general direction of the regional topography.

4.4.3. Wetlands

Based on information obtained from the United States Fish and Wildlife Service webpage (<http://www.fws.gov/wetlands/data/Mapper.html>), wetlands are not present on the site. This cursory review of wetland data for areas adjoining the site does not provide a wetlands determination.

4.5. Radon

Based on the results of California statewide radon surveys conducted in 2010 and updated in 2016 by the California Department of Health Services, the possibility that high levels of radon exist at the site is considered to be low. Radon concentrations at, or above, 4 picocuries per liter (pCi/l) are considered to be of environmental concern to the United States Environmental Protection Agency (EPA) and California EPA (Cal-EPA). Based on this survey, 142 tests for radon were conducted within the zip code in which the site is located (i.e., 91335) and 23 tests contained results with radon concentrations of 4 pCi/l or higher with a maximum result of 10.9 pCi/l. Radon testing was not performed at the site and was beyond the scope of services for this Phase I ESA.

5. SITE RECONNAISSANCE

On June 30, 2016, Mr. Patrick Cullip, a representative of Ninyo & Moore, conducted the site reconnaissance. The reconnaissance involved a walking tour of areas near the site and visual observations of adjoining properties. Selected photographs, taken during the site reconnaissance, are included in Appendix B.

5.1. Physical Limitations

Physical limitations (such as locked rooms, fenced areas) were not encountered during the site reconnaissance. At the time of the site reconnaissance, the weather was clear, with a temperature of approximately 85 degrees Fahrenheit.

5.2. Use and Storage of Hazardous Substances and Petroleum Products

Three 55-gallon drums of gasoline and one 55-gallon drum of diesel were observed in a storage room of the custodian building. Four 5-gallon diesel cans, three motors, and one empty 35-gallon drum were also observed in the storage room. The entrance to the room was bermed, providing secondary containment. Minor surface staining was observed in the storage room, however cracked or degraded pavement was not observed.

Small quantity (less than 5-gallon) containers of cleaning supplies, paint, and petroleum products were observed in the supply room of the custodian building. Hazardous materials observed included ammonia, degreasers, glass cleaners, floor finish, paint, epoxy, and enamel. A metal closet was observed in the supply room containing small quantities of motor oil, transmission fluid, lubricants, stain sealer, and enamel. Minor surface staining was observed in the storage room, however cracked or degraded pavement was not observed.

Small quantity containers of various chemicals used for science classes were observed in storage rooms of Buildings B and C. Chemicals included ammonium sulfate, sodium iodine, potassium carbonate, acetone, acids (hydrochloric acid, acetic acid, etc.), toluene, and metals (zinc, aluminum, nickel, etc.).

5.3. Storage and Disposal of Hazardous Wastes

One 25-gallon container of photographic developer waste with silver was observed in the dark room of Room A3 in Building A. The accumulation start date was 3/20/15. Staining or signs of release was not observed on the pavement.

5.4. Unidentified Substance Containers

Unidentified substance containers were not observed during the site reconnaissance.

5.5. Aboveground and Underground Storage Tanks (ASTs and USTs)

The following paragraphs provide information regarding ASTs and USTs and reservoirs located in the site vicinity.

5.5.1. Chemical Storage Tanks

Aboveground and underground chemical storage tanks were not observed at the site or the site vicinity at the time of the site reconnaissance.

5.5.2. Aboveground Water Tanks and Reservoirs

Aboveground water tanks and reservoirs were not observed at the site or site vicinity at the time of the site reconnaissance.

5.6. Evidence of Releases

Minor surface staining was observed on the pavement in the parking area north of the media center building and in parking lots. Cracked or degraded pavement was not observed. Other evidence of releases at the site, such as odors, stressed vegetation, leaks, pools of liquids, and spills, was not observed during the site reconnaissance.

5.7. Transformers

Several pad-mounted electrical transformers were observed within the site boundaries (Figure 3). Leaks or stains were not observed within the vicinity of the transformers. One pole-mounted transformer was observed on Roscoe Boulevard (off site), adjacent to the north of the site. Based on the DTSC guidelines, the presence of the transformers represent a REC.

5.8. Wastewater Systems

One inactive three-stage clarifier was observed adjacent to the south of Building A, and one inactive four-stage clarifier was observed adjacent to the north of Building N. The clarifiers were associated with former automotive shop classes. One interceptor was observed north of the media center building. An interceptor is designed to trap sediment and retain free floating oil and grease in discharged wastewater. A grease trap was observed in the kitchen area of the lunch area. The presence of two inactive clarifiers and an interceptor represent RECs for the site.

5.9. Storm Water Systems

Storm water drains were observed at the site at the time of the site reconnaissance. Staining was not observed in areas of the storm drains.

5.10. Water Wells

Wells, such as water supply wells and groundwater monitoring wells were not observed at the site.

5.11. Other Environmental Issues

Indications of former hydraulic lifts were observed beneath floor mats in Room N-2 of Building N. This building was historically associated with automotive shop classes. The suspected presence of former hydraulic lifts in Building N represents a REC.

6. CALIFORNIA EDUCATION CODE REQUIREMENTS AND DISTRICT BOARD RESOLUTIONS

Section 17213(a) of the California Education Code states that the governing board of a school district should evaluate if the school site contains the following where significant renovation is planned:

- A current or former hazardous waste disposal site or solid waste disposal site unless, if the site was a former solid waste disposal site, the school district concludes that the wastes have been removed.
- A hazardous substance release site identified by the State Department of Health Services in a current list adopted pursuant to Section 25356 of the Health and Safety Code.
- A site which contains one or more pipelines, situated underground or aboveground, which carry hazardous substances, acutely hazardous materials, or hazardous wastes, unless the pipeline is a natural gas pipeline which is used only to supply natural gas to that school or neighborhood.

Ninyo & Moore has assessed these conditions with respect to the site and are discussed in the following sections. Appendix E CDE Checklist provides a summary of the CDE potential hazards which were evaluated as part of this Phase I ESA.

In addition, the California Education Code states that the governing board of a school district must identify facilities within 0.25 mile of the proposed school site which might reasonably be anticipated to emit hazardous air emissions, or to handle hazardous or acutely hazardous materials, substances, or waste; and the school board must determine that the health risks from the facilities do not and will not constitute an actual or possible endangerment of public health to persons who would attend or be employed at the school. A discussion of air emissions within 0.25 mile of the site is summarized in Section 8.6.

6.1. High-Voltage Electrical Transmission Lines

In accordance with Title 5, Section 14010 of the California Code of Regulations, the property line of a new school site should be at least the following distance from the edge of respective power line easements: (1) 100 feet for a 50-133 kilovolt (kV) line, (2) 150 feet for a 220-230 kV line, and (3) 350 feet for a 500-550 kV line.

According to the site reconnaissance and the environmental database search performed for Ninyo & Moore by EDR, the closest overhead electrical transmission lines are located adjacent to the east of the site. A representative from the LADWP indicated that the power lines have a voltage of 127 kV. Although the site is not 100 feet from the high voltage power lines, the site is an existing school. Therefore, if future occupied portions of the planned modernization are within 100 feet of the power lines, an evaluation should be conducted in accordance with Title 5, Section 14010 of the California Code of Regulations.

6.2. Underground Pipelines

The following paragraphs provide information regarding underground petroleum, natural gas, and water lines located within 1,500 feet of the site.

6.2.1. Natural Gas and Petroleum Pipelines

According to the Office of the State Fire Marshal, Crimson Pipeline L.P. has a pipeline jurisdictional to the state fire marshal in the area of the site address. Ninyo & Moore contacted Crimson Pipeline L.P. for additional information on the location and use of the pipeline. To date, Ninyo & Moore has not received a response from Crimson Pipeline L.P.

Hazardous liquid pipeline location information was reviewed through the U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration's National Pipeline Mapping System (NPMS, www.npms.phmsa.dot.gov). According to the NPMS, an out of service (purged of hazardous liquid) empty pipeline operated by Crimson Pipeline L.P. is beneath Roscoe Boulevard, trending east-west and adjacent to the north of the site. The operator identification number is 32103 and the pipeline status code was listed as "retired." Crimson Pipeline L.P. operates oil transportation pipelines. A natural gas transmission pipeline operated by Southern California Gas Company, a Sempra Energy Utility (the Gas Company) was listed along Wilbur Avenue, trending north-south and adjacent to the east of the site. A portion of the pipeline was observed during the site

reconnaissance, parallel to the bridge over the Aliso Canyon Wash on Wilbur Avenue, east of the site.

Ninyo & Moore reviewed the Gas Company website (<http://www.socalgas.com/safety/pipeline-maps/LA.shtml>) for additional information on the natural gas pipeline. According to the Gas Company website, pipelines are plotted adjacent to the east beneath Wilbur Avenue (trending north-south) and adjacent to the north beneath Roscoe Boulevard (trending east-west) of the site. The pipelines beneath Wilbur Avenue were listed as a high pressure distribution line: “pipelines that operate at pressures above 60 pounds per square inch gauge (psig) and deliver gas in smaller volumes to the lower pressure distribution system;” and a transmission line: “generally large diameter pipelines that operate at pressures above 200 psig and transport gas from supply points to the gas distribution system.” The pipeline beneath Roscoe Boulevard was also listed as a high pressure distribution line. During a telephone conversation on July 12, 2016, the Gas Company indicated the pipeline beneath Roscoe Boulevard has a 16-inch diameter, and the pipelines beneath Wilbur Avenue have 8- and 36-inch diameters. The Gas Company indicated the pipelines beneath Wilbur Avenue do not travel beneath the site. The Gas Company also provided an Atlas map and a geographic information system (GIS) map showing the locations and pressures of the pipelines. According to the Gas Company, the distribution pipeline beneath Wilbur Avenue was installed in 1961, has an operating pressure of 120 psig, and a maximum allowable operating pressure (MAOP) of 125 psig. The transmission pipeline beneath Wilbur Avenue was installed in 1981, has a minimum operating pressure of 200 psig, maximum operating pressure of 521 psig, and a MAOP of 651 psig. The distribution pipeline beneath Roscoe Boulevard was installed in 1957, has an operating pressure of 120 psig, and a MAOP of 125 psi. In addition, medium pressure districts (below 60 psig) operate around the area. Copies of the Atlas and GIS maps are provided in Appendix C.

6.2.2. Water Pipelines

According to Mr. Fernando Cano of LADWP, there are no high-pressure water pipelines within 1,500 feet of the site. There are water lines beneath Roscoe Boulevard, Vanalden Avenue, Wilbur Avenue, and Strathern Street, with pipe diameters ranging from 6 to 30 inches.

6.3. Railroad Tracks

During the site reconnaissance, railroad tracks were not observed within or adjacent to the site. According to the USGS Canoga Park Quadrangle map, railroad tracks are not present within 1,500 feet of the site.

6.4. Airports

According to the USGS Canoga Park Quadrangle map, existing airport runway and/or airport hazards are not present within two nautical miles of the site. Van Nuys Airport is located approximately 2.2 nautical miles east of the site.

6.5. Reservoirs/Water Storage Tanks

Large water tanks/reservoirs were not observed on or near the site during the site reconnaissance. According to Mr. Cano of LADWP, reservoirs/water storage tanks are not located within 1,500 feet of the site.

6.6. Asbestos and Lead-Based Paint (LBP)

Asbestos management and abatement plans were observed in the Administration building. According to Mr. Longenecker, on site ACMs and LBP will be managed separately during the planned demolition, construction, and renovation activities by using the existing management plans as a starting point to be supplemented by additional sampling and analyses. Suspect ACMs and painted surfaces were observed to be in good condition. The presence of suspected lead from LBP in shallow soil around the buildings is a REC.

6.7. Suspected Termiticides in Soil

Based on the age of construction of school buildings, in accordance with California DTSC guidelines, the suspected presence of OCPs in shallow soil around building foundations would be considered a REC.

6.8. Suspected Arsenic in Soil

Prior to 1980, it was a common practice for the District to apply herbicides containing arsenic to soil prior to placing asphaltic concrete (AC) pavement. Based on the age of the AC pavement at the site, the suspected presence of arsenic underneath said pavement would be considered a REC.

6.9. Lead in Drinking Water

According to the 2015 LADWP Annual Water Quality Report, the 90th percentile value for lead was 6.3 parts per billion (ppb), below the federal Action Level of 15 ppb. Based on the 90th percentile value, lead in drinking water is not considered a concern.

6.10. Methane

According to the ZIMAS website (ZIMAS, 2016), the site does not lie within a methane zone or methane buffer zone.

6.11. Traffic Noise

According to the CDE School Site Selection and Approval Guide (CDE, 2000), the California Department of Transportation considered sound at 50 decibels in the vicinity of schools to be the point at which it will take corrective action for noise generated by freeways. The nearest freeway is United States Route 101, approximately 3 miles south of the site. Based on the distance of the nearest freeway, traffic noise would not be considered a concern.

6.12. Faults

According to the ZIMAS website, the nearest fault is the Santa Susana fault, approximately 8.9 kilometers from the site. The site is not within an Alquist-Priolo Fault Zone.

6.13. Flooding or Inundation Area

According to the Safety Element of the Los Angeles City General Plan (City of Los Angeles, 1996), the site is not in a potential inundation area or areas potentially impacted by a tsunami. According to the Safety Element and EDR Radius Report, the western edge of the site is within the 500-year flood zone.

6.14. Liquefaction and Landslides

According to the ZIMAS website, the site is not near landslide or liquefaction zones.

6.15. Compatible Zoning

According to the ZIMAS website, the site vicinity is zoned primarily as residential, with some neighborhood commercial at the southwest corner of Roscoe Boulevard and Wilbur Avenue.

6.16. Light, Wind, and Air Pollution

Ninyo & Moore reviewed lightpollutionmap.info, which provides radiance measurements from less than 0.25 to greater than 40.0×10^{-9} watts per steradian per square centimeter ($\text{W}/\text{sr}/\text{cm}^2$). Data is provided by the Earth Observation Group and National Oceanic and Atmospheric Administration National Geophysical Data Center. According to the website, the site has a radiance of approximately $22 \times 10^{-9} \text{ W}/\text{sr}/\text{cm}^2$.

According to the wind finder website (windfinder.com), wind statistics were available for the Van Nuys Airport, approximately 2.2 nautical miles to the east of the site. The average wind direction for the previous 12 months was to the southeast, and the average wind speed was 7 miles per hour.

Ninyo & Moore reviewed the historical air quality data from 2014 available from South Coast Air Quality Management District (SCAQMD) for the West San Fernando Valley Region. According to the SCAQMD, measurements for carbon monoxide, ozone, and nitrogen dioxide did not exceed SCAQMD maximums in 2014 (SCAQMD, 2014). The site is not listed on the District's Priority List of Schools Most at Risk from Air Pollution (Los Angeles Unified School District [LAUSD], 2008).

Since the site is an existing school, this information would not be considered a concern.

6.17. Easements

Easements restricting access or building placement were not found on the ZIMAS website.

6.18. Border Zone Property

Based on the site reconnaissance and information provided by EDR (Section 7), the site is not located within 2,000 feet of a significant disposal of hazardous waste facility.

6.19. Cellular Phone Towers

According to the MapMuse website (<http://find.mapmuse.com/map/cell-towers>), cellular phone towers are not on or adjacent to the site.

7. ENVIRONMENTAL DATABASE SEARCH

A computerized, environmental database search was performed for Ninyo & Moore by EDR. The EDR Radius Map™ report prepared by EDR included federal, state, and local databases. The EDR Radius Map™ report includes a description of the assumptions, approach to the database search, and the results. A copy of the report dated June 15, 2016, is included in Appendix D. The review was conducted to evaluate whether the properties at or near the subject site have experienced significant unauthorized releases of hazardous substances, or other events with potentially adverse environmental effects. The site was on the Hazardous Waste Information System (HAZNET) and the Resource Conservation and Recovery Act (RCRA) database as a large quantity generator. The overview map and detail map of the EDR Radius Map™ report indicate approximate locations of sites which may pose environmental concerns.

Table 2 – Summary of Environmental Database Search

Database Name	Date Arrived at EDR	Agency	Search Distance (mile)	Site Listed	Other Property Listings
Federal Records					
NPL	04/05/2016	EPA	1.0	No	0
Delisted NPL	04/05/2016	EPA	1.0	No	0
SEMS/SEMS Archive	04/05/2016	EPA	0.50	No	0
RCRA CORRACTS	03/02/2016	EPA	1.0	No	0
RCRA TSD Sites	03/02/2016	EPA	0.50	No	0
RCRA GNRTR	03/02/2016	EPA	Site & Adjacent	Yes	0
United States EC	09/11/2016	EPA	0.50	No	0
United States IC	09/11/2016	EPA	0.50	No	0
ERNS List	03/30/2016	NRC USCG	Site	No	0
United States Brownfields	12/23/2015	EPA	0.50	No	0
State and Local Records					
State-equivalent CERCLIS (EnviroStor)	02/03/2016	DTSC	0.50	No	5
SWLF Lists	02/17/2016	DRRR	0.50	No	0
LUST Lists	03/16/2016	CA SWRCB	0.50	No	3
SLIC	03/16/2016	CA SWRCB	0.50	No	1
Registered UST List	03/16/2016	CA SWRCB	0.25	No	0
Permitted AST list	09/10/2009	EPA	0.25	No	0
State EC	NA	DTSC	0.50	No	0
State IC	NA	DTSC	0.50	No	0

Table 2 – Summary of Environmental Database Search

Database Name	Date Arrived at EDR	Agency	Search Distance (mile)	Site Listed	Other Property Listings
VCP Sites	02/03/2016	DTSC	0.50	No	0
Brownfields	03/07/2016	EPA	0.50	No	1
HAZNET	10/14/2015	DTSC	Site	Yes	0
Tribal Records					
Indian Reservation	12/08/2006	USGS	1.0	No	0
Indian LUST	04/27/2016	EPA	0.50	No	0
Indian UST	04/27/2016	EPA	0.25	No	0
Notes: AST – Aboveground Storage Tank Cal-EPA – California Environmental Protection Agency CA IWMD – California Integrated Waste Management District CA SWRCB – California State Water Resources Control Board DTSC – Department of Toxic Substances Control DRRR – Department of Resources Recycling and Recovery CERCLIS – Comprehensive Environmental Response, Compensation, and Liability Information System List CORRACTS – Corrective Action Report EC – Engineering Controls EDR – Environmental Data Resources, Inc. EPA – Unites States Environmental Protection Agency ERNS – Emergency Response Notification System GNRTR – Generators List HAZNET – Hazardous Waste Information System IC – Institutional Controls LUST – Leaking Underground Storage Tank NPL – National Priority List NRC USCG – National Response Center, United State Coast Guard RCRA – Resource Conservation and Recovery Act SEMS – Superfund Enterprise Management System SLIC – Spills, Leaks, investigations, and Cleanups SWLF – Solid Waste /Landfill TSD – Treatment, Storage, and Disposal USGS – United States Geological Survey UST – Underground Storage Tank VCP – Voluntary Remediation Program					

Two unmapped facilities were included in the EDR Radius Map™ report. Based on our reconnaissance of the site vicinity and a review of the unmapped listings, they are not within the applicable search radii. There is low likelihood that the unmapped facilities have a negative environmental effect on the subject site.

The following sections include discussions of the individual databases searched by the EDR Radius Map™ report.

7.1. Federal National Priorities List (NPL): Distance Searched – 1 mile

The NPL is the EPA's database of uncontrolled or abandoned hazardous waste properties identified for priority remedial actions under the Superfund program. This database includes proposed NPL listings.

Neither the site nor properties located within a 1-mile radius of the site were listed on this database.

7.2. Federal Delisted National Priorities List: Distance Searched – 1 mile

This database contains delisted NPL properties under the Superfund program. The National Oil and Hazardous Substances Pollution Contingency Plan establish the criteria that the EPA uses to delete properties from the NPL. In accordance with 40 Code of Federal Regulations (CFR) 300.425. (e), properties may be deleted from the NPL where no further response is appropriate.

Neither the site nor properties located within a 1-mile radius of the site were listed on this database.

**7.3. Superfund Enterprise Management System (SEMS)/SEMS-Archive List:
Distance Searched – ½ mile**

The SEMS database tracks hazardous waste properties, potentially hazardous waste properties, and remedial activities performed in support of the EPA's Superfund Program across the United States. The list was formerly known as the Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), renamed to SEMS by the EPA in 2015. The list contains properties which are either proposed to or on the NPL, and the properties which are in the screening and assessment phase for possible inclusion on the NPL. The SEMS-Archive database includes properties listed as No Further Remedial Action Planned (NFRAP).

Neither the site nor properties located within a ½-mile radius of the site were listed on this database.

7.4. Federal Corrective Action Report (CORRACTS): Distance Searched – 1 mile

The EPA maintains this database of RCRA facilities that are undergoing corrective action. A corrective action order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility.

Neither the site nor properties located within a 1-mile radius of the site were listed on this database.

7.5. Federal Resource Conservation and Recovery Act (RCRA) Treatment, Storage, and Disposal (TSD) Facilities List: Distance Searched – ½ mile

The RCRA TSD database (non-CORRACTS) is a compilation by the EPA of facilities that report generation, storage, transportation, treatment, or disposal of hazardous waste.

Neither the site nor properties located within a ½-mile radius of the site were listed on this database.

7.6. Federal RCRA Generators List: Distance Searched – Site and Adjoining Properties

This list identifies sites that generate hazardous waste as defined by RCRA. Inclusion on these lists is for permitting purposes and is not indicative of a release.

The site was listed on this database as a large quantity generator of lead in 1988, as the MC&TC at 8218 Vanalden Avenue. Violations were not reported for the site listing. Other information was not provided in the report. This listing is not indicative of a release and would not be considered a REC.

Properties adjoining the site were not listed on this database.

7.7. Federal Institutional Control/Engineering Control Registries: Distance Searched – ½ mile

These lists identify properties with engineering and/or institutional controls. 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. 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 the site. Deed restrictions are generally required as part of the institutional controls.

Neither the site nor properties located within a ½-mile radius of the site were listed on this database.

7.8. Federal Emergency Response Notification System (ERNS) – Site

The ERNS database contains information on reported releases of oil and hazardous substances.

The site was not listed on this database.

7.9. Federal Brownfield List: Distance Searched – ½ mile

The EPA Brownfield database, entitled Targeted Brownfield’s Assessments, lists properties for which the EPA is providing funding and/or technical support for environmental assessments and investigations. The objective of the Targeted Brownfield’s Assessments is to promote cleanup and redevelopment of undesirable properties with environmental issues.

Neither the site nor properties located within a ½-mile radius of the site were listed on this database.

7.10. State Solid Waste Landfill Sites (SWLF): Distance Searched – ½ mile

The SWLF database consists of open and closed solid waste disposal facilities and transfer stations. The data comes from the Integrated Waste Management Board’s Solid Waste Information System and the SWRCB Waste Management Unit database.

Neither the site nor properties located within a ½-mile radius of the site were listed on this database.

7.11. State Sites: Distance Searched – 1 mile

The State Sites database consists of potential or confirmed hazardous substance release properties. Ninyo & Moore reviewed the EnviroStor database for this information.

The site was not listed on this database. The following five facilities were listed on this database within the searched distance.

Facility and Address	Distance (feet)/ Direction from Site	Groundwater Gradient (General for Vicinity Flow)	Regulatory Status	Date of Last Action	REC (Yes/No)
JMP Plating, Inc. 19019 Parthenia Street #107-110	0.55 mile north	Up to cross-gradient	Inactive – Needs Evaluation	06/25/2013	N
Circuit Services 18640 Parthenia Street #5	0.66 mile north-northeast	Up to cross-gradient	Refer: Other Agency	Not Reported	N
Price Club #437 8810 Tampa Avenue	0.75 mile north-northwest	Up-gradient	Refer: Other Agency	Not Reported	N
Cost Reductions 18351 Eddy Street #A	0.94 mile northeast	Up to cross-gradient	Refer: Other Agency	Not Reported	N
Valley Region Blythe Elementary School 18730 Blythe Street	0.22 mile east-southeast	Down to cross-gradient	Certified	02/24/2009	N

Based on the distance, direction, and/or regulatory status, it is unlikely these facilities have impacted the environmental integrity of the site.

7.12. State Leaking Underground Storage Tank (LUST) Lists: Distance Searched – ½ mile

The database of LUST information system is obtained from the SWRCB and the State Regional Water Quality Control Board (RWQCB) Los Angeles. Ninyo & Moore also reviewed the SWRCB GeoTracker website.

The site was not listed on this database. The following two facilities under three listings were included on this database within the searched distance.

Facility and Address	Distance/ Direction from Site	Groundwater Gradient (General for Vicinity Flow)	Case Number	Regulatory Status	Closure Date (if applicable)	Environ- mental Concern (Y/N)
Thrifty #0069 18904 Roscoe Boulevard	0.07 mile north- northeast	Up to cross- gradient	T0603702162	Case Closed	12/12/1996	N
Precision Auto 7654 Tampa Avenue	0.49 mile south-southwest	Down to cross- gradient	T0603702217	Case Closed	03/31/1994	N

Thrifty #0069 is further discussed in Section 8.3. Based on the distance, direction, and regulatory status, it is unlikely Precision Auto has impacted the environmental integrity of the site.

7.13. Spills, Leaks, Cleanups, and Investigation (SLIC): Distance Searched – ½ mile

This database is a State RWQCB listing of sites designed to protect and restore water quality from spills, leaks, and similar discharges.

The site was not listed on this database. Andrew Cleaners at 8235 Tampa Avenue, approximately 0.26 mile west-northwest and up to cross-gradient of the site, was listed on this database. The global identification number for the facility was listed as SL06033740449. Benzene and tetrachloroethylene were listed as potential contaminants of concern affecting groundwater. The facility received case closure on 5/14/2014. Based on the distance and regulatory status, this facility would not be considered an environmental concern.

7.14. State Underground Storage Tank (UST) and Aboveground Storage Tank (AST) Registration List: Distance Searched – Site and Adjoining Properties

UST and AST databases are provided by the SWRCB. Inclusion on these lists is for permitting purposes and is not indicative of a release.

Neither the site nor adjoining properties were listed on this database.

7.15. State Brownfield List and State Institutional Control/Engineering Control Registries: Distance Searched – ½ mile

DTSC maintains the Site Mitigation and Brownfields Reuse Program that lists properties that are undergoing cleanup with DTSC oversight. The database includes properties with one or more deed restrictions, and therefore, includes institutional and engineering control registries.

The site was not listed on this database. Andrew Cleaners at 8235 Tampa Avenue, approximately 0.26 mile west-northwest and up to cross-gradient of the site, was listed on this database. The global identification number for the facility was listed as SL06033740449, the same as that listed in Section 7.13. Additional information was not provided. Based on this information, this facility is not considered an environmental concern to the site.

7.16. State Voluntary Cleanup Programs (VCPs): Distance Searched – ½ mile

The State VCP database lists low threat level properties with either confirmed or unconfirmed releases. Project proponents have requested that the DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Neither the site nor properties located within a ½-mile radius of the site were listed on this database.

7.17. Indian Reservation: Distance Searched – 1 mile

A USGS map layer portrays Indian administered land within the United States with an area equal to or greater than 640 acres.

Indian reservation land was not found to be within the searched distance.

7.18. Indian Leaking Underground Storage Tank (LUST): Distance Searched – ½ mile

This is a database of LUSTs on Indian land in Arizona, California, New Mexico, and Nevada is maintained by the EPA.

Neither the site nor properties located within the searched distance are listed on this database.

7.19. Indian Underground Storage Tank (UST): Distance Searched – ¼ mile

This is a database is maintained by the EPA of USTs on Indian land.

Neither the site nor properties located within the searched distance are listed on this database.

7.20. Additional Databases: Distance Searched – Various

The site was listed as Cleveland High School at 8140 Vanalden Avenue on the HAZNET database. HAZNET is a database for hazardous waste manifests. Various hazardous wastes were removed from the site from 1994 to 2014, including waste oil, laboratory waste chemicals, asbestos containing waste, PCBs, photochemicals/photo processing waste, and other organic solids. This information is not indicative of a release and is not considered an environmental concern.

State Auto Body and Paint Supplies, at 19106 Cantara Street, adjacent to the west and up to cross-gradient of the site, was listed on the EDR Historical Auto Stations database from 2007 to 2009. Several vehicles were observed on the property during the site reconnaissance. Since it was not listed on other environmental databases, this facility would not be considered an environmental concern to the site.

The following two facilities were listed on the EDR Historical Cleaners database: Coin Laundry at 18912 Roscoe Boulevard, approximately 0.05 mile north-northeast and up to cross-gradient of the site from 2006 to 2009; and American Carpet Cleaning at 19130 Lanark Street, approximately 0.08 mile west and up to cross-gradient of the site from 2009

to 2012. Since these facilities were not listed on other environmental databases, these listings would not be considered an environmental concern to the site.

7.21. Border Zone-2,000 feet

Based on the review of the environmental database search report, the subject site does not fall under the provisions of Section 25221 of the California Health and Safety Code for Border Zone properties. A “border zone property” is a property designated by DTSC as such a property under Section 25229 of the California Health and Safety Code. This designation is based on the finding that the property is within 2,000 feet of a significant disposal or hazardous waste site and that the disposal creates a significant existing or potential hazard to present or future public health or safety on the land itself (Section 25117.4 of the California Health and Safety Code).

Based on our review of the EDR Radius MapTM report, the site is not considered a “hazardous waste property” or a “border zone property.”

8. ENVIRONMENTAL RECORDS REVIEW

Based on the site reconnaissance, historical research, and environmental database review, information regarding the site and relevant surrounding properties was requested from local government agencies. Requests were made for the following site addresses: 8140, 8120, and 8218 Vanalden Avenue; 18913, 18913½, and 19031 Strathern Street; 8035 Wilbur Avenue; and 18950 Roscoe Boulevard. Requests were also made for the closed LUST case at 18904 Roscoe Boulevard, approximately 150 feet east-northeast of the site. A summary of information obtained from the agencies contacted is presented below. Copies of agency records are included in Appendix C.

8.1. Los Angeles County Public Health Investigation (LACPHI)

Ninyo & Moore requested records for the site addresses and adjacent closed LUST case from the Los Angeles County Public Health Investigation (LACPHI). According to the LACPHI, records were available for the site address of 8140 Vanalden Avenue. An inspection was performed on the site by the LAFD in 2011. A notice to comply was issued for not retaining manifest copies for three years. In response, the OEHS submitted waste manifests from 2008, 2009, and 2010 for used chemical and photography waste disposal. Wastes included photography developer, batteries, paint thinner, fluorescent lights, formaldehyde, and various laboratory chemicals (acids, metals, etc.). This information would not be considered an environmental concern to the site.

8.2. Los Angeles Fire Department (LAFD)

Ninyo & Moore submitted records requests to the LAFD – UST Division and LAFD – Hazardous Materials Division. According to the LAFD – UST Division, records were not available for the site. The LAFD – UST Division indicated records were available for the former gasoline service station at 18904 Roscoe Boulevard. To date, the LAFD – UST Division has not provided these records. This is considered a data gap. If information from the LAFD – UST Division alters the conclusions and recommendations of this report, an addendum will be prepared. The LAFD – Hazardous Materials Division indicated records were available for the site addresses of 8140 Vanalden Avenue and 18913½ Strathern Street.

An inventory summary for 8140 Vanalden Avenue included gasoline and diesel, and inactive listings for ammonia, carpet cleaner, auto parts cleaner, grease, hand soap, hydraulic oil, oxygen, and other chemicals. Consolidated Contingency Plans from 2008 through 2010 were available for review. The plans included listings of gasoline and diesel on the site. In 2009, approximately 170 cubic yards of asbestos debris from demolition activities were removed from the site. In 2010, approximately 60 cubic yards of asbestos debris from demolition activities and 449 gallons of liquid waste – clarifier sludge (closing of the auto shop) were removed from the site. As discussed in Section 5.8, the presence of clarifiers on the site represents a REC.

An inventory summary for 18913½ Strathern Street included inactive listings for diesel fuel, lead acid batteries, and lead (battery electrode). The site was listed as CA-2512 West Valley Hub 9 – Time Warner Cable, Inc. Consolidated Contingency Plans from 2007 to 2012 were available for review. The plans included listings of lead acid batteries (lead and sulfuric acid) and diesel fuel with a maximum quantity of 225 gallons. According to a LAFD Data Entry Instruction Form, dated February 20, 2014, the hub was no longer at the location (closed down) and is inactive. This information would not be considered an environmental concern to the site.

8.3. Regional Water Quality Control Board (RWQCB), Los Angeles

Ninyo & Moore requested records from the RWQCB. Records were not found for site. According to the RWQCB, records were available for the closed LUST case, approximately 150 feet east-northeast of site at 18904 Roscoe Boulevard. In 1987, four USTs were removed from the property. Soil samples collected during the UST removal indicated the presence of hydrocarbons in soil at the property. The soil was removed from the UST excavation and spread out on the property to aerate. Five groundwater monitoring wells were installed, with free product encountered in two monitoring wells. In 1992, nine surface soil samples were collected and analyzed, and hydrocarbons were not detected above laboratory reporting limits. Six additional groundwater monitoring wells were installed and sampled quarterly. Based on the quarterly groundwater monitoring and sampling, a

hydrocarbon plume was detected in the southeast portion of the property, with groundwater flowing to the southeast (away from the site). In 1995, seven soil borings were advanced on the property, and hydrocarbons in soil were reported to be limited to the capillary fringe zone at a depth of approximately 10 feet bgs. From 1995 to 1996, soil vapor extraction was conducted which removed approximately 17,900 pounds of hydrocarbons. Based on the environmental investigations at the property, Thrifty Oil Company concluded the dissolved fuel hydrocarbon plume was stable and contained on the property. Thrifty Oil Company requested case closure for the property. The RWQCB granted case closure to the property in a letter dated December 12, 1996. Based on the regulatory agency status, that the hydrocarbon plume is contained on the property, and that the property is located cross-gradient to the site, the closed LUST case would not be considered an environmental concern to the site.

8.4. California Department of Toxic Substances Control (DTSC)

Ninyo & Moore requested records for the site from the DTSC – Chatsworth and Cypress offices. According to the DTSC – Chatsworth and Cypress offices, records were not found for the site addresses or closed LUST case.

8.5. Los Angeles Department of Public Works (LADPW)

Ninyo & Moore reviewed the Los Angeles Department of Public Works online file review website for information on the site addresses and closed LUST case. According to the LADPW website, records related to industrial waste, USTs, or stormwater were not found.

8.6. South Coast Air Quality Management District (SCAQMD)

In accordance with Section 17213 of the California Code of Education, properties located within ¼-mile of the site that might reasonable be anticipated to emit hazardous air emissions should be identified. Ninyo & Moore reviewed records for facilities within a ¼-mile radius of the site address from SCAQMD's Facility Information Database (FIND) website.

Listings for two facilities were found on the site: LAUSD Cleveland High School at 8140 Vanalden Avenue, and Time Warner – Hub 9 at 18913 Strathern Street (southeast corner of the site). Cleveland High School was listed for boilers and air conditioning units from 1989 to 2014. Time Warner – Hub 9 was listed for an emergency diesel generator in 2001 (inactive). Notices of violation or notices to comply were not issued for either listing. Based on our review, it is unlikely that these listings pose an environmental concern.

Listings for four facilities were found within ¼-mile of the site: LAUSD Blythe Street School at 18730 Blythe Street, approximately 0.16 mile southeast of the site; Pic N Save Store #4010 at 18840 Roscoe Boulevard, approximately 0.14 mile east of the site; Pupuseria El Cacique at 19253 Roscoe Boulevard, approximately 0.24 mile west of the site; and 7K Auto Body/All Star Auto Body at 8332 Tampa Avenue, approximately 0.23 mile west-northwest of the site. Blythe Street School did not have equipment listed. Pic N Save Store #4010 was listed for an air conditioning unit in 2000. Pupuseria El Cacique was listed for a natural gas charbroiler in 1990 (inactive). All Star Auto Body and 7K Auto Body were listed for an automotive spray booth in 2005 and 2007, respectively. Notices of violation or notices to comply were not issued for these facilities, with the exception of 7K Auto Body. In 2007 and 2008, notices to comply were issued to 7K Auto Body for recordkeeping, permit fees, and a defective differential pressure gauge. The notices achieved compliance. Based on the review of these listings, it is unlikely that these listings pose an environmental concern.

9. VAPOR MIGRATION

Ninyo & Moore conducted a preliminary vapor encroachment screen (pVES) for chemicals of potential concern (COPCs) that may migrate as vapors onto the site as a result of contaminated soil and/or groundwater near the site. The purpose of the pVES is to identify a vapor encroachment condition (VEC), which is the presence or likely presence of COPC vapors in subsurface soils at the site caused by the release of vapors from contaminated soil or groundwater either on or near the site. The potential for VEC beneath the site was evaluated using a Vapor Encroachment Screening Matrix (VESM). The VESM included performing a Search Distance Test to identify if there are any known or suspect contaminated sites surrounding or upgradient of the site within specific search radii, a COPC Test (for those known or suspect contaminated sites identified within the Search Distance Test) to evaluate whether or not COPCs are likely to be present, and a Critical Distance Test to evaluate whether or not COPCs in a contaminated plume may be within the critical distance of the site (100 feet for non-petroleum contaminants, and 30 feet for petroleum hydrocarbon contaminants). Based on the presence of clarifiers, an interceptor, other former automotive shop facilities at the site, and information obtained during this Phase I ESA, a potential VEC could not be ruled out beneath the site. A copy of the VESM is included in Appendix G.

10. FINDINGS, OPINIONS, AND CONCLUSIONS

Based upon the results of this Phase I ESA, the following findings, opinions, and conclusions are provided.

10.1. Findings and Opinions

Ninyo & Moore was retained by the District to perform a Phase I ESA of Cleveland Charter High School at 8140 Vanalden Avenue in the community of Reseda, Los Angeles, California. The format and content of the Phase I ESA Report are in general accordance with ASTM Standard Practice for Environmental Site Assessments: Phase I Site Assessment (Standard Designation E 1527-13) approved on November 1, 2013, the EPA 40 CFR Part 312 Standards and Practices for AAI – Final Rule adopted November 1, 2006, and the District’s Phase I ESA requirements. Historical research, document review, and site assessment activities were performed between June 14, 2016 and July 15, 2016.

The approximate 37-acre site is developed with Cleveland Charter High School. According to the Los Angeles County Assessor, the site is designated as APN 2104-004-905. The site includes several permanent and portable buildings, athletic fields, and playground areas. The following table includes addresses associated with the site, building names and uses, and approximate year of construction. Buildings are referred to in the report by the building name.

Address	Building Name and Use	Approximate Year (Year Built, Additions)
8140 Vanalden Avenue	Administration	1959
	A through G – Classrooms	1959
	H and J – Portable Classrooms	1959, 1967, 1977, 1989, 2005
	K – Classrooms	1959
	Media Center	1959
	N – Fitness	1959
	Custodian – Storage	1959
	Gymnasium	1959
	X through Z – Storage	1977
8218 Vanalden Avenue	Miller Career and Transition Center	1959, 1967, 1977, 1979
8120 Vanalden Avenue	Cleveland Swimming Pool	1995
19031 Strathern Street	Cleveland Early Education Center Q - Classrooms	2002
18913½ Strathern Street	Former Hub 9 – Time Warner (fiber optic)	2000

Based on our review of historical sources, the site was undeveloped in 1903 and agricultural land from 1928 through 1952. Potential presence of residual agricultural chemicals in site soils is considered a de minimis condition. The site was developed as Cleveland High School by 1959. Other buildings used by the school have been erected over time on the site from 1967 through 2002. The site has remained relatively unchanged from 2002 through the time of this report. Properties adjacent to the site were generally agricultural from 1928 through 1947. Residential and some commercial properties were developed in the site vicinity from 1938 through 2012. Aliso Canyon Wash and high voltage power lines were developed adjacent to the east of the site by 1964 and 1967, respectively. A gasoline service station (former Thrifty #0069 at 18904 Roscoe Boulevard) operated approximately 150 feet east-northeast of the site from 1967 through 1983.

Asbestos management and abatement plans were observed in the Administration building. According to Mr. Eric Longenecker (District representative), on site ACMs and LBP will be managed separately during the planned demolition, construction, and renovation activities by following the existing management plans. Suspect ACMs and painted surfaces were observed to be in good condition.

To date, Ninyo & Moore has not been provided records from the LAFD – UST Division concerning the former gasoline service station at 18904 Roscoe Boulevard. This is considered a data gap. If information from the LAFD – UST Division alters the conclusions and recommendations of this report, an addendum will be prepared.

10.2. Conclusions

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 of the Cleveland Charter High School at 8140 Vanalden Avenue in the community of Reseda, Los Angeles, California. Any exceptions to, or deletions from, this practice are described in Section 1.4 of this report. This Phase I ESA revealed no evidence of RECs in connection with the site, except for the following:

- Two inactive clarifiers associated with former automotive shop classes near Buildings A and N and an interceptor near the Media Center Building represent RECs (including a potential VEC).
- The suspected presence of former hydraulic lifts in Building N represents a REC.
- Based on the age of the current site buildings, persistent termiticides (OCPs) and lead (from LBP) may be present in shallow soil around building foundations. These are considered RECs.
- PCB-containing materials may be present from on-site pad mounted transformers installed prior to 1979. These are considered RECs.
- Arsenic in shallow soil underneath AC pavement may be present due to the District's former standard practice of applying herbicides containing this metal prior to paving. This is considered a REC.

The following off-site features were identified during the Phase I ESA:

- High pressure natural gas pipelines are present beneath Roscoe Boulevard (adjacent to the north) and Wilbur Avenue (adjacent to the east). According to the Gas Company, the pipeline beneath Roscoe Boulevard has a 16-inch diameter, and the pipelines beneath Wilbur Avenue have 8- and 36-inch diameters.
- An inactive oil transmission pipeline is beneath Roscoe Boulevard.
- High voltage power lines are adjacent to the east of the site.

10.3. Recommendations

Based on the findings of the Phase I ESA, additional environmental assessment is recommended for the site, as discussed below:

- In locations of future construction, the possible presence of PCBs, OCPs, arsenic, and lead in shallow soil at the site should be assessed in the form of a Preliminary Environmental Assessment-Equivalent and in general accordance with DTSC guidance documents (DTSC, 2002, 2003, and 2006).
- If construction or demolition activities are planned for buildings near the inactive clarifiers, interceptor, or suspected former hydraulic lifts, soil and soil vapor should be evaluated to determine the extent of site contamination, if any.
- If construction or demolition activities are planned along Roscoe Boulevard, a pipeline risk analysis should be conducted in accordance with CDE requirements.
- An evaluation of electromagnetic fields adjacent to the power lines east of the site should be conducted if habitable structures are planned within 100 feet, in accordance with CDE guidelines.

11. REFERENCES

- ASTM International, 2013, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-13, dated November.
- ASTM International, 2013, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, Designation E2600-15, dated November.
- California Department of Health Services, 2010, California Indoor Radon Levels Sorted by Zip Code,
<http://www.cdph.ca.gov/healthinfo/environhealth/Documents/Radon/CaliforniaRadonDatabase.pdf>, updated May 4.
- California Department of Conservation, Division of Oil, Gas, and Geothermal Resources, 2016, Well Finder website, <http://www.conservation.ca.gov/dog/Pages/Wellfinder.aspx>.
- California Department of Education, School Facilities Planning Division, 2000, School Site Selection and Approval Guide, last reviewed June 21, 2016.
- California Department of Toxic Substances Control, 2002, Interim Guidance for Sampling Agricultural Fields for School Sites (Second Revision), dated August 26.
- California Department of Toxic Substances Control, 2003, Addendum to Interim Guidance for Sampling Agricultural Fields for School Sites (Second Revision), dated September 26.
- California Department of Toxic Substances Control, 2006, Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers, dated June 9.
- CDE, see California Department of Education
- City of Los Angeles, 1996, Safety Element of the Los Angeles City General Plan, Adopted by the City Council on November 26.
- Dibblee, 1992, Geologic Map of the Topanga and Canoga Park (South ½) Quadrangles, Los Angeles County, California.
- DOGGR, See California Department of Conservation, Division of Oil, Gas, and Geothermal Resources
- DTSC, see California Department of Toxic Substances Control
- EDR, see Environmental Data Resources, Inc.
- Environmental Data Resources, Inc., 2016a, The EDR Aerial Photo Decade Package: Cleveland Charter High School, 8140 Vanalden Avenue, Reseda, California 91335, dated June 16.
- Environmental Data Resources, Inc., 2016b, Certified Sanborn® Map Report: Cleveland Charter High School, 8140 Vanalden Avenue, Reseda, California 91335, dated June 15.
- Environmental Data Resources, Inc., 2016c, The EDR-City Directory Abstract: Cleveland Charter High School, 8140 Vanalden Avenue, Reseda, California 91335, dated June 15.

Environmental Data Resources, Inc., 2016d, EDR Historical Topographic Map Report: Cleveland Charter High School, 8140 Vanalden Avenue, Reseda, California 91335, dated June 15.

Environmental Data Resources, Inc., 2016e, The EDR Radius Map™ Report with Geocheck®: Cleveland Charter High School, 8140 Vanalden Avenue, Reseda, California 91335, dated June 15.

Gas Company, see Southern California Gas Company, a Sempra Energy Utility.

LADPW, see Los Angeles Department of Water and Power

LAUSD, see Los Angeles Unified School District

Los Angeles Department of Water and Power, 2015 Drinking Water Quality Report for the Period of January 1 through December 31, 2015.

Los Angeles Unified School District, 2008, Priority List of Schools Most at Risk from Air Pollution, dated March 31.

SCAQMD, see South Coast Air Quality Management District

South Coast Air Quality Management District, 2014, 2014 Air Quality, <http://www.aqmd.gov/docs/default-source/air-quality/historical-data-by-year/aq14card-gases.pdf?sfvrsn=8>.

Southern California Gas Company, a Sempra Energy Utility, 2016, Gas Transmission and High Pressure Distribution Pipeline Interactive Map, <http://www.socalgas.com/safety/pipeline-maps/ventura.shtml>.

State Water Resources Control Board (SWRCB) GeoTracker website, 2016, <http://geotracker.swrcb.ca.gov>.

National Pipeline Mapping System, 2016, NPMS Public Map Viewer, <https://www.npms.phmsa.dot.gov>.

NPMS, see National Pipeline Mapping System

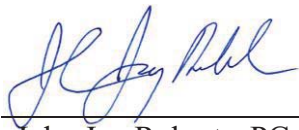
United States Geological Survey, 1952 photorevised 1967, 7.5-Minute Topographic Quadrangle Map Series, Canoga Park, California.

ZIMAS, see Zone Information and Map Access System

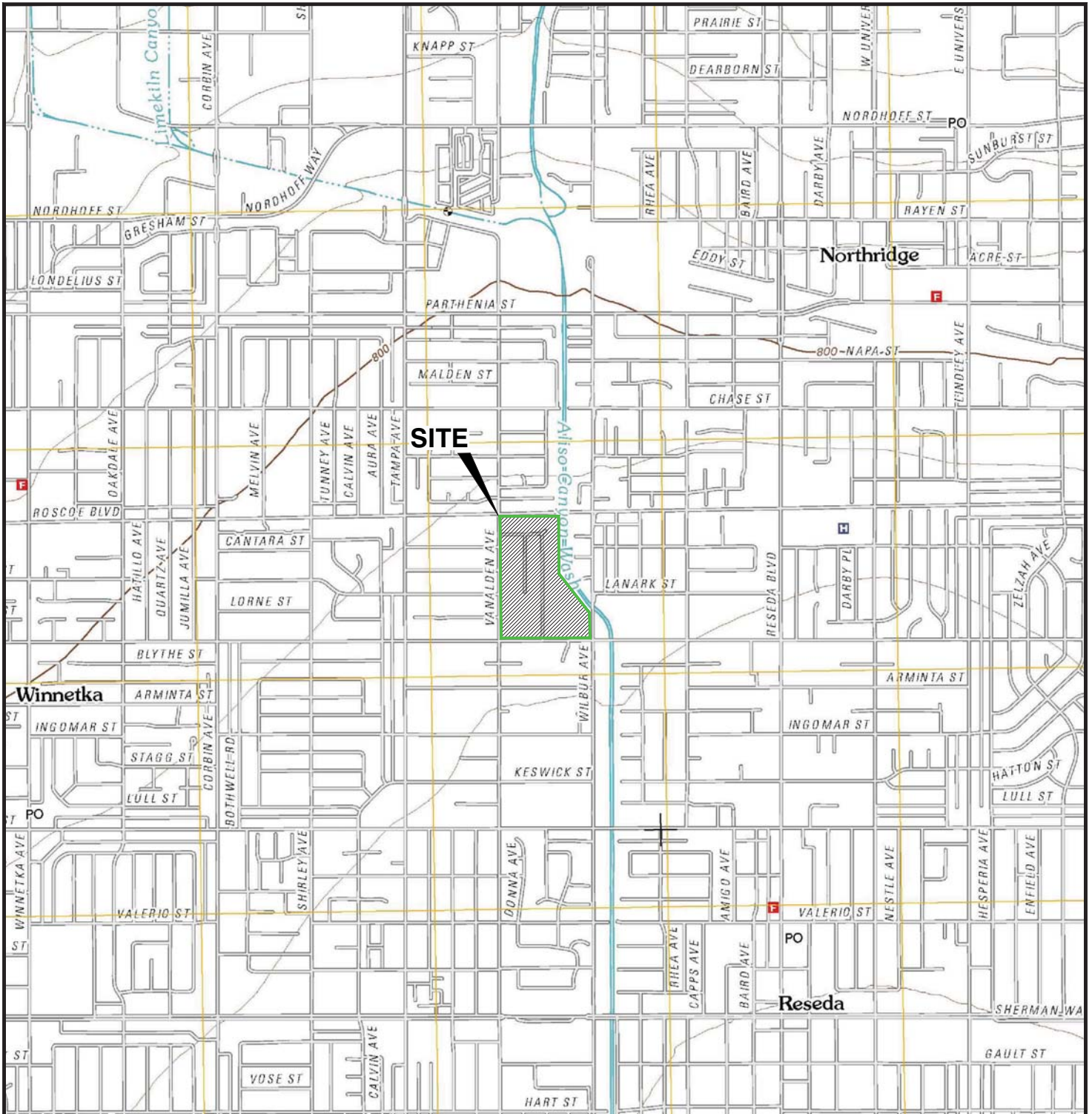
Zone Information and Map Access System, 2016, <http://zimas.lacity.org/>.

12. QUALIFICATIONS STATEMENT AND SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

John Jay Roberts states that the Phase I ESA was performed under his direct supervision, and that he has reviewed and approved the report, and the methods and procedures employed in the development of the report conform to the minimum industry standards. Mr. Roberts certifies that Ninyo & Moore project personnel and subcontractors are properly licensed and/or certified to do the work described herein.



John Jay Roberts, PG, CEG
Senior Geologist



REFERENCE: 7.5 MINUTE USGS TOPOGRAPHIC MAP OF CANOGA PARK, CALIFORNIA QUADRANGLE, DATED 2012, SCALE 1:24000.



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore

SITE LOCATION

FIGURE

PROJECT NO.
208571012

DATE
8/16

CLEVELAND CHARTER HIGH SCHOOL
8140 VANALDEN AVENUE
RESEDA, CALIFORNIA

1



REFERENCE: GOOGLE EARTH AERIAL PHOTO, 2016.



SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

- SITE BOUNDARY
- BUILDINGS AND PORTABLES PLANNED TO BE DEMOLISHED
- 19031 STREET ADDRESS

Ninyo & Moore

BUILDING LOCATIONS

FIGURE

PROJECT NO.
208571012

DATE
8/16

CLEVELAND CHARTER HIGH SCHOOL
8140 VANALDEN AVENUE
RESEDA, CALIFORNIA

2



REFERENCE: GOOGLE EARTH AERIAL PHOTO, 2016.








SCALE IN FEET



NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

LEGEND

-  SITE BOUNDARY
-  TRANSFORMER
-  INTERCEPTOR
-  CLARIFIER
-  GREASE TRAP
- 19031 STREET ADDRESS

Ninyo & Moore

SITE PLAN

FIGURE

PROJECT NO.

DATE

CLEVELAND CHARTER HIGH SCHOOL
8140 VANALDEN AVENUE
RESEDA, CALIFORNIA

208571012

8/16

3

APPENDIX A

RESUMES OF PROFESSIONALS

JOHN JAY ROBERTS, PG, CEG

SENIOR GEOLOGIST

EDUCATION

B.S., Geology, 1973, University of Southern California

REGISTRATIONS AND CERTIFICATIONS

PG 3489 (California)

CEG 1018 (California)

EXPERIENCE HIGHLIGHTS

Environmental Assessments for Schools

Human Health Risk Screening

Evaluations for School Sites

Environmental and Geotechnical Services for Redevelopment of an Existing School Site

Brownfields Clean-up Grant Application for Industrial Property

Environmental Services for a New High School

Pipeline Risk Analyses

Groundwater Discharge Evaluation for Dewatering Subdrain

Environmental Assessment for Redevelopment of a Commercial Site

Environmental Consulting Services for Commercial, Industrial, and Residential Properties

Redevelopment of Former Lockheed B-1 Facility

Hazardous Waste Landfill Expansion

Hazardous Waste Ponds Investigations

Geological Logging and Coordination During the Installation of Three Groundwater Production Wells

Hydrogeological Assessment Report

PROFESSIONAL AFFILIATIONS

Association of Engineering Geologists

National Groundwater Association

As a Senior Geologist, Mr. Jay Roberts has extensive experience performing environmental and geotechnical investigations of commercial and industrial properties and environmental site assessments of school sites, including Initial Site Assessments (ISAs), Hazardous Materials Assessments (HMAs), Phase Is, Phase IIs, PEA, SSI, RAW, RAP, and O&M plans. Mr. Roberts has completed characterization, remediation, and human health assessments on numerous properties. He has prepared successful applications for Brownfields clean-up grants and managed and performed hydrogeologic investigations, groundwater resource evaluations, and water supply studies. He also provides expert witness and litigation support for environmental, geotechnical, and mining matters.

REPRESENTATIVE PROJECT EXPERIENCE

Initial Site Assessment Ball Road Grade Separation, Anaheim, California: Technical Director for an ISA for the Ball Road Grade Separation Project in Anaheim. The project includes evaluation of alternatives for Ball Road at the interchange with the Metrolink/SCRRA Railroad rail crossing. The ISA included review of historical sources for previous uses involving hazardous wastes, regulatory agency databases research, and site reconnaissance to view for indications of potential hazardous waste impact on facilities along the proposed alignments.

Initial Site Assessment Raymond Avenue Grade Separation, Fullerton, California: Technical Director for an ISA and ADL for the Raymond Avenue Grade Separation Project in Fullerton. The project includes the lowering of Raymond Avenue to create an underpass at the Burlington Northern Santa Fe (BNSF) rail crossing. The Project in-progress will include an ADL Survey and subsurface investigation for suspected impacts in the exposed soil areas along Raymond and Valencia Avenues.

Initial Site Assessment State College Boulevard Separation and ADL Survey, Fullerton, California: Technical Director for an ISA and ADL for the State College Boulevard Separation Project in Fullerton. The project involves the lowering of State College Boulevard to create an underpass at the Burlington Northern Santa Fe (BNSF) rail crossing. The Project includes an ADL Survey in the exposed soil areas along State College Boulevard.

Initial Site Assessment Mount Vernon Avenue Bridge Expansion, San Bernardino, California: Technical Director for an ISA for the Mount Vernon Bridge Expansion project. The Project involved research and review of historical documents into property uses dealing back into the early 1900's due to long history of the site usage as a railroad hub. The records reviewed consisted of environmental investigations, remedial activities, and contaminated groundwater. Regulatory agencies representatives were also contacted for specifics on current states of remedial activities at impacted sites within the influence of the Project.

Initial Site Assessment Milliken Avenue, Mission Boulevard, and Philadelphia Street, Ontario, California: Technical Director for an ISA and ADL for the proposed grade separation at the existing at-grade crossing of South Milliken Avenue and the Union Pacific Railroad (UPRR) in Ontario, California. The Project includes an ADL survey to be performed adjacent to Milliken Avenue, Mission Boulevard, and Philadelphia Street to evaluate surface and subsurface soil for the presence and concentration of ADL in proposed roadway improvement areas.

Phase I Environmental Site Assessments, Tehachapi Renewable Transmission Project, Kern County, California for Southern California Edison (SCE): Project Manager for Phase I Environmental Site Assessments (ESAs) for 10 separate Sites in Kern County, California for Southern California Edison (SCE) for the Tehachapi Renewable Transmission Project. The Phase I ESAs were performed in accordance with the ASTM International (ASTM), Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process Designation E 1527-05 and Practices for All Appropriate Inquiries (AAI) as set forth in the Code of Federal Regulations (CFR), Title 40, Part 312. In order to meet the accelerated schedule for the project, the 10 separate Phase I ESA reports were completed within approximately three weeks from authorization. In accordance with the ASTM and AAI requirements, Ninyo & Moore reviewed readily available historical documents, including historical aerial photographs, Sanborn Fire Insurance Rate maps, building department records, historical topographic maps, and city directories, as applicable. Ninyo & Moore conducted a review of federal, state, tribal, and local regulatory agency databases for each Site and for properties located within the specified radius (by the ASTM Standard) of each Site for locations of known hazardous waste sites, landfills, leaking underground storage tanks (LUSTs), and permitted facilities with USTs.

Ninyo & Moore

Experience | Quality | Commitment

REPRESENTATIVE PROJECT EXPERIENCE (continued)

The Phase I ESAs included a reconnaissance of each Site to document existing hazardous materials handling, storage, and disposal practices, areas of possibly contaminated surficial soil or surface water, possible sources of polychlorinated biphenyls (PCBs), USTs and ASTs, and possible sources of contamination from activities at the Site and adjacent properties, and an interview of each Site property representative. The results of each Phase I ESA were presented in a comprehensive report, which included a summary whether or not recognized environmental conditions (RECs) were found on the any of the 10 Sites.

Environmental Site Assessments and Hazardous Building Materials Survey, Beverly Hills Post Office Building, California: Project Manager for a Preliminary Environmental Site Assessment/Phase I ESA of the proposed Wallis Annenberg Cultural Center of Beverly Hills. The site consisted of the existing historic Beverly Hills Post Office building and surrounding parking lots proposed to be converted to a new cultural center, including an underground parking structure proposed to be constructed beneath existing street rights of way and portions of the adjacent Beverly Hills City Hall property. Ninyo & Moore reviewed historical and regulatory records, conducted a site reconnaissance, and interviewed property representatives in order to prepare a comprehensive report summarizing potential environmental concerns associated with redevelopment of the site. Potential environmental concerns (PECs) included the historical development of the site as lumber storage yard, a train depot, and railroad right-of-ways, the former presence of an underground storage tank, and releases associated with off-site fire station and gas station facilities. Also, due to the age of the building the presence of the potential presence of asbestos-containing materials (ACMs), lead-based paints (LBPs), and other hazardous building materials was suspected.

Environmental Assessments for 12 School Sites, Western Riverside County, California: Project Manager for Phase I studies through complete environmental investigations and site closure status granted by DTSC, the lead regulatory agency. All 12 sites required DTSC's rigorous PEA investigations, including soil gas and/or soil matrix sampling. One site required a soil RAW and implementation. Public participation services in accordance with DTSC requirements were also provided.

Environmental Assessments for 10 School Sites, Western San Bernardino County, California: Project Manager for Phase I studies through complete environmental investigations and site closure status granted by DTSC, the lead regulatory agency. All 10 sites required DTSC's rigorous PEA investigations, including soil gas and/or soil matrix sampling. Sampling and analyses was conducted on the sites primarily for past agricultural activities. One site required an additional investigation for an on-site burn dump. Public participation services in accordance with DTSC requirements were also provided to the client school district.

Environmental Consulting Services for Commercial, Industrial, and Residential Properties Throughout California, Oregon, and Washington: Project Manager for Phase I studies throughout the western United States. Mr. Roberts managed, directed, coordinated a staff conducting Phase Is, and reviewed and signed each report. These services were performed for a variety of fiduciary institutions, attorneys, and school districts. These services included complete investigations to meet ASTM standards, as well additional studies required by the client. In order to fully characterize conditions, Phase II investigations were recommended and completed, ranging from additional historical research through soil and/or groundwater sampling.

PATRICK CULLIP, EIT

TASK LEADER: FACILITIES ENGINEERING

EDUCATION

B.S. Mechanical Engineering, Loyola Marymount University, Los Angeles

REGISTRATIONS AND CERTIFICATIONS

Loss Prevention System (LPS)
OSHA HAZWOPER with annual 8-hour refreshers

OSHA HAZWOPER Site Supervisor Training

OSHA Excavation Competent Person Certification

First Aid and CPR Training

BNSF Contractor Orientation Safety certified

EXPERIENCE HIGHLIGHTS

Phase I Environmental Site Assessments
Sampling Surveys

1166 Soil Monitoring

Preliminary Environmental Assessment

Mr. Patrick Cullip has over three years experience performing environmental remediation, operations and maintenance (O&M), remediation system installation, groundwater/soil vapor sampling, well installation, underground storage tank (UST) removal, soil contamination removal, dual-phase extractions, aerially-deposited lead (ADL) sampling, geological and geotechnical logging, quarterly groundwater monitoring reports, pilot test reports, design, and oversight projects; conducting environmental site assessments (ESAs) and feasibility testing; and evaluating regulatory compliance.

REPRESENTATIVE PROJECT EXPERIENCE

Port of Los Angeles, Wilmington, California: Senior Staff Environmental Engineer, conducted groundwater monitoring on numerous existing monitoring wells, using hand bailers.

Long Beach Unified School District, Long Beach, California: Senior Staff Environmental Engineer, collected soil samples using hand-auger and direct-push methods, to assess lead and pesticide contamination from lead based paint and termiticides along the edges of classroom and administrative buildings at Jordan High School, and prepared reports for government agencies. Sample results were used to determine the extent of contamination and potential associated health risks to field personnel participating in planned remodeling/demolition activities. Prepared the preliminary environmental assessment (PEA) report for sampling and associated remedial action work plan (RAW) for required soil remediation.

City of Los Angeles, Temescal Canyon Park Storm Water Project, Pacific Palisades, California: Senior Staff Environmental Engineer, conducted South Coast Air Quality Management District Rule 1166 air monitoring of soil being excavated for future storm water holding tank. The soil consists of undocumented fill found to contain petroleum hydrocarbons.

Caltrans, Various Locations, Southern California: Senior Staff Environmental Engineer, collected soil samples, using hand-auger methods, of roadside soils to assess aerially deposited lead (ADL) impacts of soil from years of contamination from leaded gasoline. Sample results were used to determine the waste classification for proper disposal and handling of road and highways improvements.

Phase I ESAs – Various Sites, Southern California: Field Manager, performed numerous Phase I ESAs of commercial, industrial, and residential properties throughout Southern California for various financial institutions, land developers, and government agencies. The Phase I ESAs included reviewing regulatory files of various government agencies to evaluate the extent and type of impacts at sites, conducting site walks and owner/operator interviews, and preparing reports.

Los Angeles Unified School District (LAUSD), Los Angeles, California: Oversaw groundwater/soil vapor extraction tests at various sites to determine extent of contamination. Field Manager for a complex site excavation for future school; tasks included lead/hydrocarbon soil testing, hazardous/non-hazardous soil removal, and air quality monitoring. Directed cleaning/removal of USTs, soil contamination chase-out, and removal. Supervised installation of groundwater/soil vapor monitoring wells. Directed maintenance on groundwater/soil vapor systems. Organized, managed, and operated numerous dual-phase extraction tests to remove site contaminants. Executed various O&M visits for existing soil vapor and groundwater remediation systems. Tracked effluent readings for various sites to ensure permitting compliance. Prepared dozens of environmental reports including quarterly groundwater monitoring reports, pilot tests, site assessments, remedial action plans, and RECAPs.

APPENDIX B
PHOTOGRAPHIC DOCUMENTATION



Photograph 1: Looking east at the site.



Photograph 2: Looking north at the Miller Career and Transition Center in the northern portion of the site.



Photograph 3: Looking east at the Cleveland Swimming Pool.



Photograph 4: View of Cleveland Early Education Center in the southern portion of the site.



Photograph 5: View of former fiber optic hub building in the southeast portion of the site.



Photograph 6: View of typical hallway interior.



Photograph 7: View of typical portable classrooms.



Photograph 8: View of 55-gallon drums of diesel and gasoline in the storage room of the custodian building.



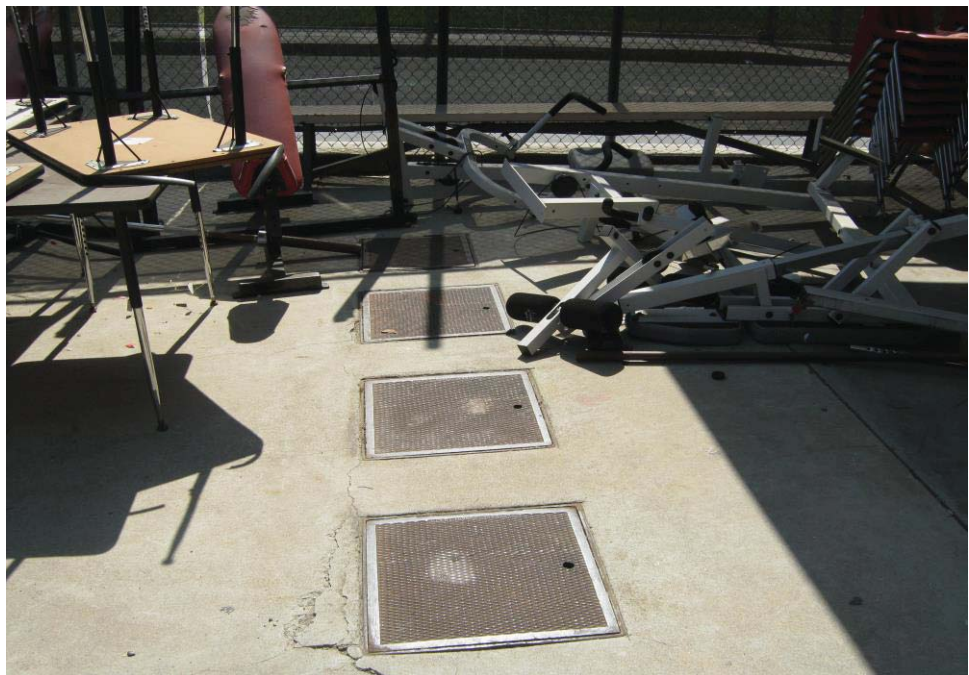
Photograph 9: View of cleaning supplies in the supply room of the custodian building.



Photograph 10: View of typical small quantity containers of various chemicals used for sciences classes in Buildings B and C.



Photograph 11: View of inactive three-stage clarifier adjacent to the south of Building A.



Photograph 12: View of inactive four-stage clarifier adjacent to the north of Building N.



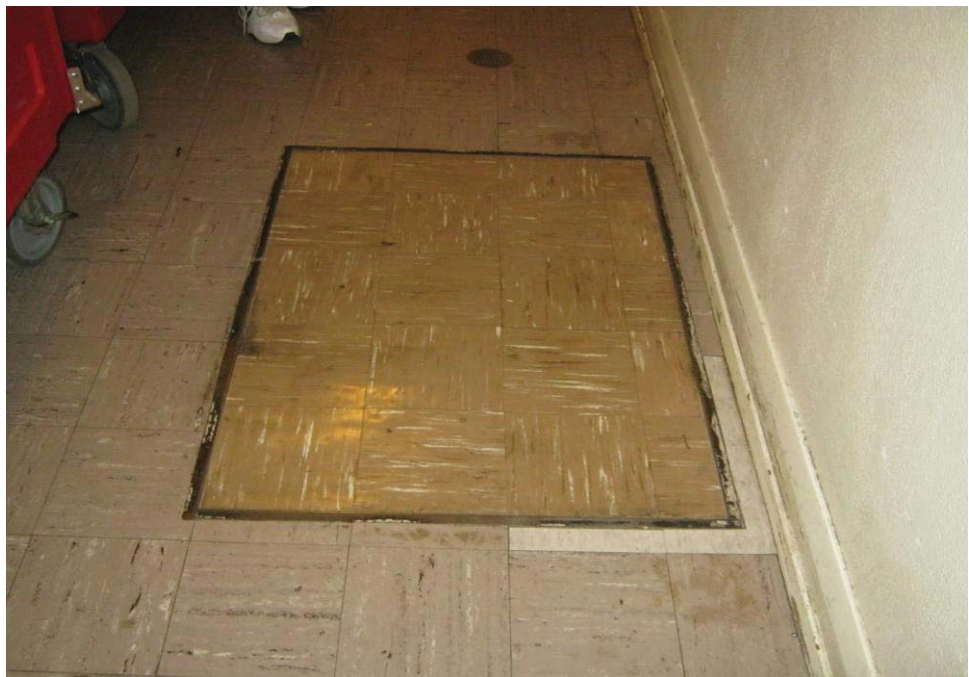
Photograph 13: View of suspected former hydraulic lift in Room N2 of Building N.



Photograph 14: View of 25-gallon container of photographic developer waste with silver in the dark room of Room A3 in Building A.



Photograph 15: View of interceptor north of Media Center Building.



Photograph 16: View of grease trap in the kitchen area of the lunch area.



Photograph 17: View of typical small pad-mounted transformer at the site.



Photograph 18: View of large pad-mounted transformer adjacent to the north of the Miller Career and Transition Center.



Photograph 19: View of pole-mounted transformer along Roscoe Boulevard, north of the site.



Photograph 20: Looking north away from the site at Roscoe Boulevard, beyond which are residential properties.



Photograph 21: View of high voltage power lines and Aliso Canyon Wash adjacent to the east of the site.



Photograph 22: Looking east away from the Aliso Canyon Wash at a strip mall (former Thrifty #0069 gasoline service station).



Photograph 23: View of high pressure natural gas pipeline over the Aliso Canyon Wash, adjacent to the east of the site.



Photograph 24: Looking east away from the southern portion of the site at Wilbur Avenue, beyond which are residential properties.



Photograph 25: Looking south away from the site at Strathern Street, beyond which were residential properties.



Photograph 26: Looking west away from the site at Vanalden Avenue, beyond which were residential properties.



Photograph 27: Looking west away from the site at Vanalden Avenue, beyond which was State Auto Body with several vehicles on the property.

APPENDIX C

SITE DOCUMENTS AND REGULATORY AGENCY DOCUMENTATION

(ON ATTACHED CD)



CYNTHIA A. HARDING, M.P.H.
Interim Director

JEFFREY D. GUNZENHAUSER, M.D., M.P.H.
Interim Health Officer

Public Health Investigation Administration

LEOLA MERCADEL
Chief, Public Health Investigation

5556 Ferguson Drive, Suite 120-04
Commerce, California 90022
TEL (323) 890-7801 • FAX (323) 728-0217

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BOARD OF SUPERVISORS

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Don Knabe
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Michael D. Antonovich
Fifth District

June 24, 2016

NINYO & MOORE

Patrick Cullip

475 Goddard, Ste. 200

Irvine, CA 92618

RE: 18913, 18913 1/2, 19031 WEST STRATHERN ST, LOS ANGELES, CA 91335

I, the undersigned, being the Custodian or the Keeper of Records, certify that a thorough search for the records you requested was carried out under my direction and control.

This search revealed no records.

It should be understood that this does not mean that the records you requested do not exist. It is possible that such records may be misfiled; exist under another spelling, another name, or under another classification. However, with the information furnished to our office, and to the best of our knowledge, no records were located.

If you have any questions regarding your request, please contact our office at (323) 890-7806.

Sincerely,

A handwritten signature in black ink, appearing to read "Jorge Perez".

Jorge Perez, Deputy Health Officer
Public Health Investigation

COR ID No.164167



CYNTHIA A. HARDING, M.P.H.
Interim Director

JEFFREY D. GUNZENHAUSER, M.D., M.P.H.
Interim Health Officer

Public Health Investigation Administration

LEOLA MERCADEL
Chief, Public Health Investigation

5555 Ferguson Drive, Suite 120-04
Commerce, California 90022
TEL (323) 890-7801 • FAX (323) 728-0217

www.publichealth.lacounty.gov



BOARD OF SUPERVISORS

Hilda Salls
First District

Mark Ridley-Thomas
Second District

Sheila Kuehl
Third District

Don Knabe
Fourth District

Michael D. Antonovich
Fifth District

June 24, 2016

NINYO & MOORE

Patrick Cullip

475 Goddard, Ste. 200

Irvine, CA 92618

RE: 8120 & 8218 NORTH VANALDEN AVE., LOS ANGELES, CA 91335

I, the undersigned, being the Custodian or the Keeper of Records, certify that a thorough search for the records you requested was carried out under my direction and control.

This search revealed no records.

It should be understood that this does not mean that the records you requested do not exist. It is possible that such records may be misfiled; exist under another spelling, another name, or under another classification. However, with the information furnished to our office, and to the best of our knowledge, no records were located.

If you have any questions regarding your request, please contact our office at (323) 890-7806.

Sincerely,

A handwritten signature in black ink, appearing to read "Jorge Perez".

Jorge Perez, Deputy Health Officer
Public Health Investigation

COR ID No.164168



CYNTHIA A. HARDING, M.P.H.
Interim Director

JEFFREY D. GUNZENHAUSER, M.D., M.P.H.
Interim Health Officer

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Fifth District

June 24, 2016

NINYO & MOORE

Patrick Cullip

475 Goddard, Ste. 200

Irvine, CA 92618

RE: 8035 WILBUR AVE, LOS ANGELES, CA 91335

I, the undersigned, being the Custodian or the Keeper of Records, certify that a thorough search for the records you requested was carried out under my direction and control.

This search revealed no records.

It should be understood that this does not mean that the records you requested do not exist. It is possible that such records may be misfiled; exist under another spelling, another name, or under another classification. However, with the information furnished to our office, and to the best of our knowledge, no records were located.

If you have any questions regarding your request, please contact our office at (323) 890-7806.

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Fifth District

June 24, 2016

NINYO & MOORE

Patrick Cullip

475 Goddard, Ste. 200

Irvine, CA 92618

RE: 18950 WEST ROSCOE BLVD., LOS ANGELES, CA 91324

I, the undersigned, being the Custodian or the Keeper of Records, certify that a thorough search for the records you requested was carried out under my direction and control.

This search revealed no records.

It should be understood that this does not mean that the records you requested do not exist. It is possible that such records may be misfiled; exist under another spelling, another name, or under another classification. However, with the information furnished to our office, and to the best of our knowledge, no records were located.

If you have any questions regarding your request, please contact our office at (323) 890-7806.

Sincerely,

A handwritten signature in black ink, appearing to read "Jorge Perez".

Jorge Perez, Deputy Health Officer
Public Health Investigation

COR ID No.164170



ASSISTANT PRINCIPAL

LOS ANGELES UNIFIED SCHOOL DISTRICT

CLEVELAND HIGH SCHOOL
A CALIFORNIA DISTINGUISHED SCHOOL

8140 VANALDEN AVENUE
RESEDA, CALIFORNIA 91335

TEL: (818) 885-2318
FAX: (818) 727-0964
rjr6755@lausd.net

AT



JAVIER PEÑA
PLANT MANAGER

LOS ANGELES UNIFIED SCHOOL DISTRICT

CLEVELAND HIGH SCHOOL

(818) 885-2300

8140 VANALDEN AVENUE
RESEDA, CALIFORNIA 91335

TEL: (818) 349-9410
FAX: (818) 727-0964

Direct line (818) 885-2380



County
ment
ureau

Hazardous
Materials Division

Company/Case Name:

Log #:

Page of

EPA ID #:

Date	HMS Initials	Findings/Remarks
1/18/2011	XS.	DOT conducted. no significant violation flg

PC - Phone Call OK - Violation Corrected NOK - Violation Not Corrected HM - Hazardous Materials HW - Hazardous Waste
NOV - Notice of Violation DR - Document(s)/Manifest(s) Received HMS - Hazardous Materials Specialist

Los Angeles Unified School District

Office of Environmental Health and Safety

RAMON C. CORTINES
Superintendent of Schools

WENDY MACY
Chief Operating Officer

JOHN STERRITT
Director

February 2, 2011

Ms. X. Severino
Hazardous Materials Specialist II
Health Hazardous Materials Division
County of Los Angeles Fire Department
14425 Olive View Drive
Sylmar, CA 91342

SUBJECT: NOTICE ISSUED (DATED 1/18/2011) TO CLEVELAND HIGH SCHOOL

Dear Ms. Severino:

This is in response to the January 18, 2011 notice issued to Cleveland High School at 8140 Vanalden Ave., Reseda, CA 91335 (see attached).

As per your request, we have attached copies of manifests and shipping documents for used chemical and photography waste disposal for 2008, 2009 and 2010.

Should you have any questions, please call me at (213) 241-3904.

Sincerely,



Soe Aung
Office of Environmental Health and Safety

c: Robert Rakauskas
Laura Maxwell



COUNTY OF LOS ANGELES FIRE DEPARTMENT
HEALTH HAZARDOUS MATERIALS DIVISION



INSPECTION REPORT
CERTIFIED UNIFIED PROGRAM AGENCY • PARTICIPATING AGENCY
14425 OLIVE VIEW DRIVE, SYLMAR, CA 91342
PHONE: (818) 364-7120 FAX: (818) 364-7127

BUSINESS: <u>CLEVELAND HIGH SCHOOL</u>	OWNER: <u>LOC / N L...</u>	DATE: <u>1/18/21</u>
ADDRESS: <u>1741 VANALDEN AVE, KESWICK, CA 91335</u>	FACILITY ID: <u>0220180</u>	

The following requirements, if applicable, have been inspected. This document constitutes a summary of violations and notice to comply if the violation column (V) is checked. References: Titles 19 and 22 of the California Code of Regulations (CCR); Chapters 6.5, 6.67, and 6.95 of the California Health and Safety Code (HSC); Titles 11 and 12 of the Los Angeles County Code (Co Ord); and Title 40 Code of Federal Regulations (CFR). NOTE: For all CFR sections refer to CCR 66262.34(d)(2) for applicability.

INSPECTION TYPE: <input checked="" type="checkbox"/> INITIAL			<input type="checkbox"/> RE-INSPECTION			<input type="checkbox"/> OTHER:		
V	HAZARDOUS WASTE (HW) GENERATOR	SECTION	V	HAZARDOUS WASTE GENERATOR	SECTION			
	1	HW accumulation time	CCR 66262.34(a-d)	27	HW analysis retained for 3 years	CCR 66262.40(c)		
	2	Satellite accumulation	CCR 66262.34(e)	28	HW determination	CCR 66262.11		
	3	HW labeling	CCR 66262.34(f)	29	Proper disposal of HW	HSC 25189.5(a)		
	4	Hazardous materials storage and labeling	CCR 66261.2(f)	30	Reckless management of HW	HSC 25189.6		
	5	Containers leaking or not in good condition	CCR 66265.171 CFR 265.171	31	Quarantine order	HSC 25187.6		
	6	Compatibility of waste with containers	CCR 66265.172 CFR 265.172	32	Maintain/operate to prevent release/fire	CCR 66265.31 CFR 265.31		
	7	HW containers closed	CCR 66265.173(a) CFR 265.173(a)	33	Required equipment and maintenance	CCR 66265.32-33 CFR 265.32-33		
	8	Container inspection - weekly	CCR 66265.174 CFR 265.174	34	Required aisle space	CCR 66265.35 CFR 265.35		
	9	Separation of incompatibles	CCR 66265.177 CFR 265.177	35	Personnel training	CCR 66265.16 CFR 262.34(d)(5)(iii)		
	10	Tank overflow and spill prevention	CCR 66265.194 CFR 265.201(b)	36	Emergency information posting [SQGs]	CFR 262.34(d)(5)(ii)		
	11	Tank inspection	CCR 66265.195 CFR 265.201(d)	37	Contingency plan [LQGs]	CCR 66265.51		
	12	Tank system management	CCR 66265.190-202 CFR 265.201	38	Source reduction requirements [LQGs]	CCR 67100.3		
	13	Empty containers	CCR 66261.7	39	Biennial report requirements [RCRA LQGs]	CCR 66262.40-41		
	14	Used oil management	HSC 25250.4	40	Closure requirements [LQGs]	CCR 66265.111 / .114		
	15	Used oil / fuel filter management	CCR 66266.130 / HSC 25250.22	41	Site assessment requirements	HSC 25187(a)(1)		
	16	Used battery management	CCR 66266.81	42	Excluded recyclable material management	HSC 25143.2 / .9		
	17	Contaminated textile management	HSC 25144.6	43	Recyclable material report	HSC 25143.10		
	18	EPA ID number [submit DTSC form 1358]	CCR 66262.12	44	Universal waste management	CCR 66273.1		
	19	HW manifest complete	CCR 66262.23(a)	45	Other violation(s)			
	20	Manifest copies to DTSC	CCR 66262.23(a)(4)		HAZARDOUS MATERIALS HANDLER	SECTION		
	21	Manifest copies retained for 3 years	CCR 66262.40(a)	50	HMBP established and implemented	HSC 25503.5		
	22	Consolidated manifest requirements	HSC 25160.2	51	HMBP submitted; updated/accurate	HSC 25505		
	23	Manifest exception reporting	CCR 66262.42	52	Regulated substance registration	HSC 25533(a)		
	24	HW transported with manifest	CCR 66262.20		ABOVEGROUND PETROLEUM STORAGE	SECTION		
	25	HW transported by registered hauler	HSC 25163(a)	60	SPCC plan	HSC 25270.4.5(a)		
	26	Land disposal restriction requirements	CCR 66268.7(a)	70	PERMIT REQUIRED - Submit UP Forms	Co Ord 12.50.075		

NO SIGNIFICANT VIOLATIONS OBSERVED ON DATE OF INSPECTION.

NOTICE TO COMPLY: THE VIOLATION(S) CITED MUST BE CORRECTED BY JEB 18, 2011

RETURN CERTIFICATION OF COMPLIANCE FOUND ON BACK OF THIS NOTICE.

Attention: The requirements checked are in violation. Non-compliance could result in re-inspection fees, permit revocation, and/or administrative/civil/criminal penalties. A re-inspection may occur at any time to verify compliance. Any time granted for correction of the violation(s) does not preclude any enforcement action by this Department or other agencies.

It is improper and illegal for any County officer, employee or inspector to solicit bribes, gifts or gratuities in connection with performing their official duties. Improper solicitations include requests for anything of value such as cash, discounts, free services, paid travel or entertainment, or tangible items such as food or beverages. Any attempt by a County employee to solicit bribes, gifts or gratuities for any reason should be reported immediately to either the County manager responsible for supervising the employee or the Fraud hotline at (800) 544-6861 or www.lacountyfraud.org. YOU MAY REMAIN ANONYMOUS.

#21) PROVIDE COPIES OF MANIFESTS FOR YOUR USED CHEMICAL DISPOSAL & PHOTOGRAPHY WASTE DISPOSAL

Inspected By: <u>X. GERVINO</u>	Consent Given By: <u>Robert R. Kauskas</u>	Authorized Representative's Signature: <u>[Signature]</u>
---------------------------------	--	---



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

24 HOUR EMERGENCY CONTACT: ECI - (800) 321-5479



Export / E-Mail Data

From: Facility Name: Cleveland High School To: Facility Name: School Hazardous Collection
Address: 8140 Vanalden Avenue Address: 620 East Pico Street
City State, Zip: Reseda, CA .91335 City State, Zip: Los Angeles CA, 90015
Contact Name: David Gundrum Receiver Name: Jose Padilla
EPA ID #: CAD982039281 Signature:

Mileage: 58 R/T

Drive Time to Current Pickup Location: 1 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
Waste Formaldehyde Solutions, Flammable, 3 UN1198 PGII	D001	331	280 p	Liquid	14 BOXES	DF	20 gallon Specimen	

X

X

Contributing Facility Representative Name

David Gundrum
David Gundrum

PRINT

DATE

8-3-10

JAVIER PEÑA

DATE

8-3-10

OEHS Transporter Name

Jose Padilla
Jose Padilla

PRINT

DATE

08-03-10

Add Item



TRFAD

Stop Ticket

1 of 1

Stop# 1103765-15540

Pick-up: 07/29/09 - 07/29/09

Trip# 791840

Actual Miles _____

Site# 123855

EPA ID#: CAD982039251
PO#: JOB # 24-1078

Internal Contact
REGGIE SANTOS (562)595-0209

Name _____ Signature _____ Date _____

Mailing Address

Site Address (GEN)

SOE AUNG
LOS ANGELES UNIFIED SCHOOL DISTRICT
333 S. BEAUDRY AVE., 20TH FLOOR
LOS ANGELES, CA 90017

LOS ANGELES UNIFIED SCHOOL D
8140 VANALDEN AVENUE
RESEDA, CA 91335
Phone# (213)241-3199
KRISTINE MCBRIDE - 909/625-6645

Driver Instructions:

Transporter: 10573

Phone

ECOLOGY CONTROL INDUSTRIES
CAD982030173

US DOT# 197051

(310)354-9999
MC#

Pickup Demurrage _____ Driver# _____

Emergency Rate _____ Tractor# _____

Final Delivery Demurrage _____ Trailer# _____

Driver Name _____ Date _____

Deliver To: 15540

HERITAGE ENVIRONMENTAL SERVICES LLC
284 E STOREY RD, COOLIDGE AZ 85228
Directions:

AZD081705402
(520)723-4167

P/U	Items	Common Name	See Manifest	Transaction	Prod	Ref#	Ord	Type
	1	LAB PACK	-	2061197	63	Y1Y	1	DM

SPL INSTRS: 005360616JJK

02
PRINTED

122644: ECOLOGY CONTROL INDUSTRIES
Company\Loc: 42\67

Heritage Environmental Services, LLC
www.heritage-enviro.com

S

MAIL TO GENERATOR

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CA 082030281	2. Page 1 of 2	3. Emergency Response Phone 909-625-8845	4. Manifest Tracking Number 005360616 JJK	
5. Generator's Name and Mailing Address LAUSD/LEVELAND HS 383 S BEAUDRY AVE. 20th Floor LOS ANGELES CA 90017 Generator's Phone: 712 741 2004			Generator's Site Address (if different than mailing address) LAUSD/LEVELAND HS 8140 VANALDEN AVENUE RESEDA CA 91335			
6. Transporter 1 Company Name ECOLOGY CONTROL INDUSTRIES (MONTCLAIR)			U.S. EPA ID Number CAD982030173			
7. Transporter 2 Company Name HERITAGE TRANSPORT			U.S. EPA ID Number IND5804114			
8. Designated Facility Name and Site Address HERITAGE ENVIRONMENTAL SERVICES, LLC 5122 EAST STOREY ROAD COOLIDGE AZ 85228 Facility's Phone: 520 723 4167			U.S. EPA ID Number AZD081705402			
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. WASTE OXIDIZING SOLID, N.O.S. 5.1, UN 1479 PG I (LAB PACK)	1	DF	10	P	None 000/001
X	2. WASTE OXIDIZING SOLID, N.O.S. 5.1, UN 1479 PG I (LAB PACK)	1	DF	5	P	000 551
	3.					
	4.					
14. Special Handling Instructions and Additional Information WEAR APPROPRIATE SAFETY EQUIPMENT WHILE HANDLING. DIX 10H1 ECI JOB#24-1078 2) 1x51H2 ECI P.O.						
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 D.V. MURRAY			Signature <i>[Signature]</i>		Month Day Year 07/22/09	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> 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 Andres Gonzalez			Signature <i>[Signature]</i>		Month Day Year 7/20/09	
Transporter 2 Printed/Typed Name DENISE GONZALEZ			Signature <i>[Signature]</i>		Month Day Year 17/20/09	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> 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. 4141		2. 4141		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 <i>[Signature]</i>			Signature <i>[Signature]</i>		Month Day Year 08/13/09	

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Generator ID Number <i>CA 7082137281</i>	22. Page <i>8</i>	23. Manifest Tracking Number <i>105360616JJK</i>
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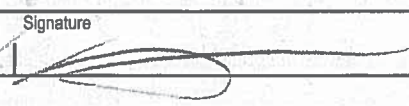
24. Generator's Name
LAUSD / CLEVELAND HS

25. Transporter 3 Company Name *Triad Transport* U.S. EPA ID Number *OKD 981588791*

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		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
		No.	Type					

32. Special Handling Instructions and Additional Information
2nd

33. Transporter Acknowledgment of Receipt of Materials
Printed/Typed Name *Linaxa Motka* Signature  Month *1* Day *8* Year *1999*

34. Transporter Acknowledgment of Receipt of Materials
Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAD9820302661	2. Page 1 of 3	3. Emergency Response Phone 909-825-8845	4. Manifest Tracking Number 005350615 JJK	
5. Generator's Name and Mailing Address LAUSD/CLEVELAND HS 333 S BEAUFY AVE 20th Floor LOS ANGELES CA 90017 Generator's Phone: 213 241 3503			Generator's Site Address (if different than mailing address) LAUSD/CLEVELAND HS 8140 VANALDEN AVENUE RESEDA CA 91335			
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 1830 W 17TH STREET LONG BEACH CA 90819 Facility's Phone: 562 432-5445			U.S. EPA ID Number CAD028409019			
9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
X	1. WASTE FLAMMABLE SOLIDS, ORGANIC, NOS 4.1, UN 1375 PCB (LAB PACK)	1	DF	10	P	None D001 551
X	2. WASTE ALKALINE EARTH METAL ALLOYS NOS 4.3, UN 1393 PCB (LAB PACK)	1	DF	5	P	D003 D008 551 D001
X	3. WASTE CHAIRCLOAL 4.2, UN 1361 PG II (LAB PACK)	1	DF	5	P	D001 551
X	4. WASTE CAUSTIC ALKALI LIQUIDS, NOS. 8, UN 1719 PG II (LAB PACK)	1	DF	5	P	D007 551
14. Special Handling Instructions and Additional Information WEAR APPROPRIATE SAFETY EQUIPMENT WHILE HANDLING. 1) 1X5 UH1 3) 1X5 2PH3 ECT JOB#24-1978 2) 1X5 UH2 4) 1X5 UH4 ECT P.C. 1-4. UH48267 D16273						
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/Offoror's Printed/Typed Name Sergio H. Sepulveda			Signature <i>Sergio H. Sepulveda</i>		Month Day Year 07/20/09	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: Date leaving U.S.:						
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name: Andres Gonzalez Signature: <i>Andres Gonzalez</i> Month Day Year: 7/20/09 Transporter 2 Printed/Typed Name: Signature: Month Day Year:						
18. Discrepancy ENTERED						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection THE REFERENCED WASTE WAS RECEIVED, HANDLED AND STORED FOR SUBSEQUENT OFF-SITE 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						
18b. Alternate Facility (if Generator)					U.S. EPA ID Number	
18c. Signature of Designated 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. H111		2. H111		3. H111		4. H111
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 Jasmin Kelleza			Signature <i>Jasmin Kelleza</i>		Month Day Year 7/29/09	

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number CAD 982039781	22. Page 2 of 3	23. Manifest Tracking Number 005380615 116		
24. Generator's Name LAUSD / CLEVELAND H.S.						
25. Transporter _____ Company Name				U.S. EPA ID Number		
26. Transporter _____ Company Name				U.S. EPA ID Number		
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes
		No.	Type			
X	5. CORROSIVE SOLIDS, N.O.S. 8, UN 1755 PG II (LAB PACK)	1	DF	5	P	551
X	6. WASTE TOXIC SOLID, INORGANIC, N.O.S. 6.1, UN 3288 PG II (LAB PACK)	1	DF	30	P	0007 0008 551
X	7. HAZARDOUS WASTE, SOLID N.O.S. 9, UN 3077 PG II (LAB PACK)	1	DF	5	P	551
X	8. TOXIC SOLID, ORGANIC, N.O.S. 6.1, UN 2811 PG II	1	DF	5	P	551
X	9. WASTE CORROSIVE LIQUIDS, ACIDIC, ORGANIC, N.O.S. 8, UN 3265 PG II (LAB PACK)	1	DF	5	P	0007 551
X	10. TOXIC SOLIDS, ORGANIC, N.O.S. 6.1, UN 2811 PG II (LAB PACK)	1	DF	5	P	551
X	11. WASTE CYANIDES, INORGANIC SOLID, N.O.S. 6.1, UN 1588 PG II (LAB PACK)	1	DF	10	P	0003 551
X	12. WASTE ZINC POWDER 4.3, UN 1436	1	DF	10	P	0001 0002 551
X	13. WASTE METAL POWDERS, FLAMMABLE N.O.S. 4.1, UN 3089 PG II (LAB PACK)	1	DF	10	P	0001 551
X	14. WASTE FLAMMABLE LIQUIDS, N.O.S. 3, UN 1993 PG II (LAB PACK)	1	DF	5	P	0001 551
32. Special Handling Instructions and Additional Information 5) 1 X 5 LPH 5 9) 1 X 5 LPH 9 12) 1 X 5 LPH 12 6) 1 X 5 LPH 6 10) 1 X 5 LPH 10 13) 1 X 5 LPH 13 7) 1 X 5 LPH 7 11) 1 X 5 LPH 11 14) 1 X 5 LPH 14 8) 1 X 5 LPH 8						
33. Transporter _____ Acknowledgment of Receipt of Materials Printed/Typed Name		Signature		Month	Day	Year
34. Transporter _____ Acknowledgment of Receipt of Materials Printed/Typed Name		Signature		Month	Day	Year
35. Discrepancy						
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
H141		H141		H141		
H141		H141		H141		

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number <i>CAO 9820392B1</i>	22. Page <i>3 OF 3</i>	23. Manifest Tracking Number <i>005380615 JSK</i>		
24. Generator's Name <i>LAUSD/ CLEVELAND H.S.</i>						
25. Transporter _____ Company Name				U.S. EPA ID Number		
26. Transporter _____ Company Name				U.S. EPA ID Number		
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers		29. Total Quantity	30. Unit WL/Vol.	31. Waste Codes
		No.	Type			
	<i>15. NON-RCRA HAZARDOUS WASTE, SOLID (LABPACK)</i>	<i>1</i>	<i>DF</i>	<i>150 P</i>		<i>551</i>
	<i>16. NON-RCRA HAZARDOUS WASTE, SOLID (LAB WASTE)</i>	<i>1</i>	<i>DM</i>	<i>80 P</i>		<i>181</i>
32. Special Handling Instructions and Additional Information <i>15) 1 X 70 (FIBER) #LP48267</i> <i>16) 1 X 55 #27340</i>						
33. Transporter _____ Acknowledgment of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
34. Transporter _____ Acknowledgment of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
35. Discrepancy						
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
<i>H141 H141</i>						

GENERATOR

TRANSPORTER

DESIGNATED FACILITY



TSM RECOVERY
 & RECYCLING CO., INC.
 3422 W. PICO BLVD.
 LOS ANGELES, CA 90019
 PHONE: (323) 735-9443
 FAX: (323) 735-0988

MATERIAL RECEIPT
 GOLD and SILVER RECOVERY

MATERIAL RECEIPT NUMBER
LA- 88737

T. S. D. EPA#CAD 108040858
 LIC. HAZARDOUS WASTE HAULER

MR #: 88737

DATE 03/08/2010
 8-3

RECEIVED FROM: **Acct. No: 3619 LAUSD - CLEVELAND HIGH SCHOOL**
 PAY TO: **EPA#: LOCATION: Area:1**
Phone:818-349-8410 Contact:SOE AUNG
 ADDRESS **8140 VANALDEN AVE. #A-3 CITY RESEDA STATE CA ZIP 91335**

Spot <input type="checkbox"/>		Refining <input type="checkbox"/>		Payment <input type="checkbox"/>		Consignment <input type="checkbox"/>		Toll <input type="checkbox"/>		Wet <input type="checkbox"/>		Dry <input type="checkbox"/>		Gross <input type="checkbox"/>		Net <input type="checkbox"/>	
CONTAINERS	GAL/LBS	DESCRIPTION										UNIT PRICE	TOTAL DUE				
		<input type="checkbox"/> BLEACH FIX		<input type="checkbox"/> BLEACH FIX		OF											
		<input type="checkbox"/> C41		<input type="checkbox"/> C41		OF											
		<input type="checkbox"/> B & W		<input type="checkbox"/> B & W		OF											
1	15g	<input checked="" type="checkbox"/> PHOTO WASTE / DEVELOPER		<input type="checkbox"/> OTHER													
		<input type="checkbox"/> PMT & ITEK & RC PAPER		<input type="checkbox"/> COLOR PAPER													
		<input type="checkbox"/> LITHO FILM		<input type="checkbox"/> LITHO FILM W PAPER													
		<input type="checkbox"/> POSITIVE LITHO FILM		<input type="checkbox"/> FILM ENDS													
		<input type="checkbox"/> INK (DRUMS)															
		<input type="checkbox"/> ALUMINUM PLATES															
		<input type="checkbox"/> CHIP		<input type="checkbox"/> CARTRIDGE													
		<input type="checkbox"/> HAZARDOUS WASTE LABEL															
		<input type="checkbox"/> RECYCLABLE WASTE LABEL															
		NEW CHEMISTRY															
		<input type="checkbox"/> RA 3300 FIX		<input type="checkbox"/> RA 2200 DEVELOPER													
		<input type="checkbox"/> OTHER															

SPECIAL INSTRUCTIONS

Office Use Only:

15g poly container label
 Bldg A (Hall) - Rm A-3 Photo Lab
 15g (f/d) mix

I hereby certify that I have authorization to release the materials listed above for reclamation and if payment has been directed to me as indicated above, true and lawful title to all materials listed on this receipt.

RELEASE/ACCEPTED: [Signature] TITLE _____
 TSM REPRESENTATIVE: [Signature]

WHITE: Original
 YELLOW: Duplicate Copy
 PINK: Customer Copy



Office of Environmental Health and Safety
 333 South Beaudry Avenue
 Los Angeles, California 90017
 Phone: (213) 241-3199
 Fax: (213) 241-6616



LOS ANGELES UNIFIED SCHOOL DISTRICT (LAUSD) PBR SHIPPING PAPER

From: Facility Name: Cleveland H-S
 Address: 5410 Vengalen St
 City State, Zip: Reseda CA, 91375
 Contact Name: JAVIER PEÑA
 EPA ID #: CA0982039281
 Mileage: 58

To: Facility Name: School Hazardous Collection Consolidation Accumulation Facility
 Address: 620 East Pico Street
 City State, Zip: Los Angeles CA, 90015
 Receiver Name: OCTAVIO LEON
 EPA ID #: CAD097864235
 Signature: [Signature]

OEHS ARRIVAL TIME: 3:20pm OEHS DEPARTURE TIME: 10:00am

24 HOUR EMERGENCY CONTACT: CWI-1 (800) 788-2167

Proper DOT Shipping Name, Hazard Class, ID No., Packing Group	Waste Code	Waste Qty	Physical State (1)	No. of Containers	Type of Container Used for Transport	Size of Container Used for Transport	Comments
Universal waste	/	72 lbs	S	6 boxes	card	4 ft	050808001-06
fluorescent lights							
Non PBR Hazardous waste liquid	291	30 lbs	L	1 x 5 gal plastic	plastic	70 gal	050808007
washable (and non washable) paint thinner	200	10 lbs	L	1 x 1 gal can	plastic	70 gal	050808008
Hazardous waste liquid (developed)	201	8 lbs	liquid	1 x 1 gal plastic	plastic	75 gal	050808009
Universal waste batteries	/	1 lbs	S	1 box	plastic	70 gal	050808010

OEHS Transporter Name

[Signature]
 Octavio Leon

Contributing Facility Representative Name
JAVIER PEÑA
 SIGN: [Signature] DATE: 05/08/08
 PRINT: JAVIER PEÑA

OEHS Transporter Name
[Signature]
 SIGN: [Signature] DATE: 5/08/08
 PRINT: Octavio Leon

OWNER FILE INFORMATION

DATE PRINTED: 02/14/2011 11:53:27AM BY:

Owner ID: OW0045069 Tax ID : 95-6001908 Drivers License:
Owner Name: LOS ANGELES USD
Owner DBA: CLEVELAND HIGH SCHOOL
Owner Address: 333 S BEAUDRY AVE
LOS ANGELES, CA 90017
Ownership Type:
Work/Business Phone: 213-241-3199
Billing/Mailing Address: 333 S BEAUDRY AVE, 20TH FLOOR
LOS ANGELES, CA 90017
ATTN/Care of:

FACILITY FILE INFORMATION

Facility ID: FA0036780 Account ID: AR0043808
Facility Name: CLEVELAND HIGH SCHOOL
No. of Employee: 5
Site Location: 8140 VANALDEN AVE
RESEDA, CA 91335
Phone: 818-885-2301
Mailing Address: 333 S BEAUDRY AVE, 20TH FL
LOS ANGELES, CA 90017
Operator/Care of: Email Address: NO E-Mail Address
District: N - NORTH
City Code: LAC
CUPA Jurisdiction: LA
Operation Hours:
SIC Code: 8211
Business Type / Code: 13
Station (Code 1):
D & B #:
Date 1 (D1):

GENERAL HEALTH PROGRAM ELEMENTS

Record ID #	Program Element	Current Status	# of Unit	EPA #	Effective Date D1 (Beg.) & C1 (End)	Last Inspection Date
PR0059265	1001 - HW GEN. 0-5 EMPLOYEES	Active, billable			01/01/06	1/19/2011
PR0086105	8040 - CALIFORNIA ELECTRONIC REPORTING SURCHARGE	Active, billable				

OWNER FILE INFORMATION

* Clearly make changes/corrections here.

Owner ID: OW0045069

New Owner ID:

Owner Name: LOS ANGELES USD

Tax ID : 95-6001908

Owner DBA: CLEVELAND 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: FA0036780

Account ID: AR0043808

Facility Name: CLEVELAND HIGH SCHOOL

No. of Employee: 5

Site Location: 8140 VANALDEN AVE

RESEDA, CA 91335

Phone: ~~818-349-8410~~ 885 2301

update + file

Mailing Address: 333 S BEAUDRY AVE, 20TH FL
LOS ANGELES, CA 90017

Operator/Care of:

E-Mail Address:

NO 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:

GENERAL HEALTH PROGRAM ELEMENTS

Record ID	Current Program Element	Current Status	# of Unit	EPA #	Effective Date		----- Changes -----	
					Beg.	End	Program Element	Status
PR0059265	1001 - HW GEN, 0-5 EMPLOYEES	Active, billable			01/01/06			
PR0086195	8010 - CALIFORNIA ELECTRONIC REPORTING SURCHARGE	Active, billable						

Addition Program Element:

CA Waste Code	135					
RCRA Waste Code						
AMOUNT per quarter	55					
UNITS (PGTY) Pounds, Gallons, Tons, Yards	cf					

818 885 2380

CONSENT GIVEN BY:

Javier Penn

INSPECTOR SIGNATURE:

XS

EMPLOYEE ID:

135

1st DATE & TIME OF INSPECTION:

1/18/2011

2nd DATE & TIME OF INSPECTION:

3rd DATE & TIME OF INSPECTION:

PREVIOUS INSPECTIONS

Activity Date	Program Element	Service	Result	Action	Activity Min	Travel Min	Inspector ID	Violation Code
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VIOLATIONS LIST

Open	Activity Date	Program Element	Viol Status	Service	Result	Action	Violation Code	Violation Degree	Description
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CONSENT GIVEN BY: _____ INSPECTOR SIGNATURE: _____ EMPLOYEE ID: _____

1st DATE & TIME OF INSPECTION: _____ 2nd DATE & TIME OF INSPECTION: _____

3rd DATE & TIME OF INSPECTION: _____



COUNTY OF LOS ANGELES FIRE DEPARTMENT
HEALTH HAZARDOUS MATERIALS DIVISION



INSPECTION REPORT
CERTIFIED UNIFIED PROGRAM AGENCY • PARTICIPATING AGENCY
14425 OLIVE VIEW DRIVE, SYLMAR, CA 91342
PHONE: (818) 364-7120 FAX: (818) 364-7127

BUSINESS: <u>CLEVELAND HIGH SCHOOL</u>	OWNER: <u>Los Angeles USD</u>	DATE: <u>1/18/2011</u>
ADDRESS: <u>8140 VAN ALDEN AVE, Reseda, CA 91335</u>	FACILITY ID: <u>0036780</u>	

The following requirements, if applicable, have been inspected. This document constitutes a summary of violations and notice to comply if the violation column (V) is checked. References: Titles 19 and 22 of the California Code of Regulations (CCR); Chapters 6.5, 6.67, and 6.95 of the California Health and Safety Code (HSC); Titles 11 and 12 of the Los Angeles County Code (Co Ord); and Title 40 Code of Federal Regulations (CFR). NOTE: For all CFR sections refer to CCR 66262.34(d)(2) for applicability.

INSPECTION TYPE: INITIAL RE-INSPECTION OTHER:

V	HAZARDOUS WASTE (HW) GENERATOR	SECTION	V	HAZARDOUS WASTE GENERATOR	SECTION
	HW accumulation time	CCR 66262.34(a-d)	27	HW analysis retained for 3 years	CCR 66262.40(c)
	Satellite accumulation	CCR 66262.34(e)	28	HW determination	CCR 66262.11
	HW labeling	CCR 66262.34(f)	29	Proper disposal of HW	HSC 25189.5(a)
	Hazardous materials storage and labeling	CCR 66261.2(f)	30	Reckless management of HW	HSC 25189.6
	Containers leaking or not in good condition	CCR 66265.171 CFR 265.171	31	Quarantine order	HSC 25187.6
	Compatibility of waste with containers	CCR 66265.172 CFR 265.172	32	Maintain/operate to prevent release/fire	CCR 66265.31 CFR 265.31
	HW containers closed	CCR 66265.173(a) CFR 265.173(a)	33	Required equipment and maintenance	CCR 66265.32-33 CFR 265.32-33
	Container inspection - weekly	CCR 66265.174 CFR 265.174	34	Required aisle space	CCR 66265.35 CFR 265.35
	Separation of incompatibles	CCR 66265.177 CFR 265.177	35	Personnel training	CCR 66265.16 CFR 262.34(d)(5)(iii)
	Tank overflow and spill prevention	CCR 66265.194 CFR 265.201(b)	36	Emergency information posting [SQGs]	CFR 262.34(d)(5)(ii)
	Tank inspection	CCR 66265.195 CFR 265.201(d)	37	Contingency plan [LQGs]	CCR 66265.51
	Tank system management	CCR 66265.190-202 CFR 265.201	38	Source reduction requirements [LQGs]	CCR 67100.3
	Empty containers	CCR 66261.7	39	Biennial report requirements [RCRA LQGs]	CCR 66262.40-41
	Used oil management	HSC 25250.4	40	Closure requirements [LQGs]	CCR 66265.111 / .114
	Used oil / fuel filter management	CCR 66266.130 / HSC 25250.22	41	Site assessment requirements	HSC 25187(a)(1)
	Used battery management	CCR 66266.81	42	Excluded recyclable material management	HSC 25143.2 / 9
	Contaminated textile management	HSC 25144.6	43	Recyclable material report	HSC 25143.10
	EPA ID number [submit DTSC form 1358]	CCR 66262.12	44	Universal waste management	CCR 66273.1
	HW manifest complete	CCR 66262.23(a)	45	Other violation(s)	
	Manifest copies to DTSC	CCR 66262.23(a)(4)		V HAZARDOUS MATERIALS HANDLER	SECTION
<input checked="" type="checkbox"/>	Manifest copies retained for 3 years	CCR 66262.40(a)	50	HMBP established and implemented	HSC 25503.5
	Consolidated manifest requirements	HSC 25160.2	51	HMBP submitted; updated/accurate	HSC 25505
	Manifest exception reporting	CCR 66262.42	52	Regulated substance registration	HSC 25533(a)
	HW transported with manifest	CCR 66262.20		V ABOVEGROUND PETROLEUM STORAGE	SECTION
	HW transported by registered hauler	HSC 25163(a)	60	SPCC plan	HSC 25270.4.5(a)
	Land disposal restriction requirements	CCR 66268.7(a)	70	PERMIT REQUIRED - Submit UP Forms	Co Ord 12.50.075

NO SIGNIFICANT VIOLATIONS OBSERVED ON DATE OF INSPECTION.

NOTICE TO COMPLY: THE VIOLATION(S) CITED MUST BE CORRECTED BY FEB 18, 2011 (OK)

RETURN CERTIFICATION OF COMPLIANCE FOUND ON BACK OF THIS NOTICE

Attention: The requirements checked are in violation. Non-compliance could result in re-inspection fees, permit revocation, and/or administrative/civil/criminal penalties. A re-inspection may occur at any time to verify compliance. Any time granted for correction of the violation(s) does not preclude any enforcement action by this Department or other agencies.

It is improper and illegal for any County officer, employee or inspector to solicit bribes, gifts or gratuities in connection with performing their official duties. Improper solicitations include requests for anything of value such as cash, discounts, free services, paid travel or entertainment, or tangible items such as food or beverages. Any attempt by a County employee to solicit bribes, gifts or gratuities for any reason should be reported immediately to either the County manager responsible for supervising the employee or the Fraud hotline at (800) 544-6861 or www.lacountyfraud.org. YOU MAY REMAIN ANONYMOUS.

OK #21) PROVIDE COPIES OF MANIFEST FOR YOUR USED CHEMICAL DISPOSAL & PHOTOGRAPHY WASTE DISPOSAL (operator provided the manifest ~~before~~ at the end of inspection)

Inspected By: <u>X. G. Marino</u>	Consent Given By: <u>Robert Rukanskas</u>	Authorized Representative's Signature: <u>[Signature]</u>
-----------------------------------	---	---

Field Notes

LIST ORDER OF INSPECTION AS FOLLOWS: I. OPENING CONFERENCE II. WALK THROUGH III. DOCUMENTS
IV. CLOSING CONFERENCE V. VIOLATIONS

HW

DEHS: 2/3/24/3199
JAD 002037207

Chemical Storage
Chemical Lab Area

photography Lab =

Ecology Control
industries

DAVID GUNDRUM

1/26/10 550
#135
00572659
JAD

David Gundrum @ LAUSD, Net

all golf carts: LA golf cart
to come serve

Used Pruners & fluorescent light bulbs: DEHS
gardening tools - served by LAUSD
H.A.

CONSENT GIVEN BY: _____ INSPECTOR SIGNATURE: _____ EMPLOYEE ID: _____

1st DATE & TIME OF INSPECTION: _____ 2nd DATE & TIME OF INSPECTION: _____

3rd DATE & TIME OF INSPECTION: _____

FA0036780 CLEVELAND HIGH SCHOOL

OWNER FILE INFORMATION

** Clearly make changes/corrections here.*

Owner ID: OW0045069 New Owner ID:
Owner Name: LOS ANGELES USD Tax ID : 95-6001908
Owner DBA: CLEVELAND HIGH SCHOOL Drvr Liens :
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: FA0036780
Facility Name: CLEVELAND HIGH SCHOOL
No. of Employee: 5
Site Location: 8140 VANALDEN AVE
 RESEDA, CA 91335
Phone: 818-349-8410
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** Nature of Business: SCHOOL
Business Type / Code: 13 **SCHOOL**
Station:
Date First Became Operational:

GENERAL HEALTH PROGRAM ELEMENTS

Record ID	Current Program Element	Current Status	EPA #	Effective Date		----- Changes -----	
				Beg.	End	Program Element	Status
PR0059265	1001 - HW GEN, 0-5 EMPLOYEES	Active, billable		01/01/06			

Addition Program Element: _____

CA Waste Code					
RCRA Waste Code					
AMOUNT per quarter					
UNITS (PGTY) Pounds, Gallons, Tons, Yards					

CONSENT GIVEN BY: _____ INSPECTOR SIGNATURE: _____ EMPLOYEE ID: _____

1st DATE & TIME OF INSPECTION: _____ 2nd DATE & TIME OF INSPECTION: _____

3rd DATE & TIME OF INSPECTION: _____

ENVIRONMENTAL CONTACT INFORMATION ** For Haz Mat Handlers.

Contact Name:

Phone : Not Specified

Dun & Bradst.: * Please Fill-Out

EMERGENCY CONTACT INFORMATIONPRIMARY CONTACT:SECONDARY CONTACT:

Name :

Title :

Business Phone : Not Specified

Not Specified

24 - Hour Phone : Not Specified

Not Specified

Pager # : Not Specified

Not Specified

PREVIOUS INSPECTIONS

Activity Date	Program Element	Service	Result	Action	Activity Min	Travel Min	Inspector ID	Violation Code
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VIOLATIONS LIST

Activity Date	Program Element	Viol Status	Service	Result	Action	Violation Code	Violation Degree	Description
---------------	-----------------	-------------	---------	--------	--------	----------------	------------------	-------------

CONSENT GIVEN BY: _____

INSPECTOR SIGNATURE: _____

EMPLOYEE ID: _____

1st DATE & TIME OF INSPECTION: _____

2nd DATE & TIME OF INSPECTION: _____

3rd DATE & TIME OF INSPECTION: _____

Field Notes

LIST ORDER OF INSPECTION AS FOLLOWS: I. OPENING CONFERENCE II. WALK THROUGH III. DOCUMENTS
IV. CLOSING CONFERENCE V. VIOLATIONS

Lined area for field notes.

CONSENT GIVEN BY: _____ INSPECTOR SIGNATURE: _____ EMPLOYEE ID: _____

1st DATE & TIME OF INSPECTION: _____ 2nd DATE & TIME OF INSPECTION: _____

3rd DATE & TIME OF INSPECTION: _____



Office of the State Fire Marshal

Pipeline Safety Division
P.O. Box 944246
Sacramento, CA 94244-2460

Request ID: 06152016SFM001

Page 1 of 1

TO: NINYO & MOORE
PATRICK CULLIP
475 GODDARD, STE 200
IRVINE, CA 92618

FROM: Lisa Dowdy
Phone: (916) 445-8477
Fax: (916) 445-8526

Phone: 949 753 7070
Fax: 949 753 7071

PIPELINE LOCATION REQUEST FOR:

**8140 VANALDEN AVENUE
RESEDA, CA 91335**

**THE FOLLOWING COMPANY(S) HAVE STATE FIRE MARSHAL
JURISDICTIONAL PIPELINES IN THE AREA YOU HAVE REQUESTED:**

Crimson Pipeline L.P.

CSFM ID 1203
SIZE
COMMODITY

*For more information and exact location of **Crimson Pipeline L.P.** pipelines and any other pipelines they may have in the area please call the following representative:*

Alex Morales (562) 595-9044

Disclaimer: The pipeline information and data represented in this correspondence varies in accuracy, scale, origin and completeness and may be changed at any time without notice. While the Office of the State Fire Marshal, Pipeline Safety Division (OSFM/PSD) makes every effort to provide accurate information, OSFM/PSD makes no warranties as to the suitability of this product for any particular purpose. Any use of this information is at the user's own risk.

For further information or suggestions regarding the data on this site, please contact the Office of the State Fire Marshal, Pipeline Safety Division at P.O. Box 944246, Sacramento, CA 94244 or call (916)



Matthew Rodriguez
Secretary for
Environmental Protection



Department of Toxic Substances Control

Barbara A. Lee, Director
5796 Corporate Avenue
Cypress, California 90630



Edmund G. Brown Jr.
Governor

June 23, 2016

Mr. Patrick Cullip
Ninyo & Moore
475 Goddard, Suite 200
Irvine, California 92618

VARIOUS SITES:
PR4-062316-01

Dear Mr. Cullip:

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 reference below:

PLEASE SEE ATTACHED SHEET:

We would like to inform you about EnviroStor, a database that provides information and Documents on over 5,000 DTSC cleanup sites. EnviroStor can be accessed at: <http://www.envirostor.dtsc.ca.gov/public>. Also, a computer is available in the Central Files of each DTSC Regional Office for use by community members to view EnviroStor.

If you have any questions or would like further information regarding your request, please contact our Regional Records Coordinator at: (714) 484-5336.

Sincerely,

Jone Barrio
Regional Records Coordinator
Cypress Administrative Services

Attachment

475 Goddard, Suite 200, Irvine, California 92618 Phone 949/753-7070 Fax 949/753-7071 www.ninyoandmoore.com

To: Regional Records Coordinator

Date: June 23, 2016

Firm: California Department of Toxic Substances Control-Cypress Office

Fax No: (714) 484-5318

Address: 5796 Corporate Avenue, Cypress, California 90630

Telephone No: (714) 484-5300

From: Patrick Cullip

Total Pages Including Transmittal: 1

Subject: Records Request

Project No: 208571012

Urgent
 For Approval
 For Your Use
 Please Reply
 As Requested
 Original Document:
 Will Not Follow
 Will Follow
 By U.S. Mail
 By Other

ATTN: Regional Records Coordinator,

I would like to review files that your agency may have regarding the addresses in Los Angeles, CA 91335:

- 18913, 18913 1/2, 19031 West Strathern Street - N/R
- 8120 and 8218 North Vanalden Avenue N/R
- 8035 Wilbur Avenue - N/R
- 18950 West Roscoe Boulevard (zip code 91324) - N/R

Please contact me at (949) 753-7070 x12286 or email me at pcullip@ninyoandmoore.com to set up an appointment to review any available files.

Sincerely,

7

Patrick Cullip
Project Engineer

- Geotechnical Engineering
- Engineering Geology
- Materials Testing and Inspection
- Construction Management
- Engineering Design
- Environmental Engineering
- Environmental Site Assessments
- Regulatory Compliance and Permitting
- Water Quality and Resource Evaluations
- Hazardous Waste Management
- Soil and Groundwater Remediation
- Asbestos and Lead-Based Paint Surveys
- Geophysical Studies
- Mineral Resource Evaluations
- Value Engineering
- Forensic Studies
- Expert Witness Testimony

DEPARTMENT OF TOXIC SUBSTANCES CONTROL

JUN 23 2016

DATE RECEIVED
CYPRESS OFFICE

■ San Francisco ■ Irvine ■ San Diego ■ Los Angeles ■ Ontario ■ Oakland ■ Las Vegas ■ Salt Lake City ■ Phoenix

PR4-062316-01 N/R



Matthew Rodriguez
Secretary for
Environmental Protection



Department of Toxic Substances Control

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311



Edmund G. Brown Jr.
Governor

June 27, 2016

Mr. Patrick Cullip
Ninyo & Moore
475 Goddard, Suite 200
Irvine, CA 92618

VARIOUS SITES
PR3-062316-06

Dear Mr. Cullip:

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.

- 18913, 18913 ½, 19031 West Strathern Street, Los Angeles, CA 91335
- 8120 and 8218 North Vanalden Avenue, Los Angeles, CA 91335
- 8035 Wilbur Avenue, Los Angeles, CA 91335
- 18950 West Roscoe Boulevard, Los Angeles, CA 91324

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.

RECEIVED

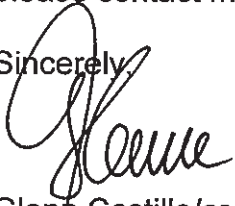
JUN 30 2016

**NINYO & MOORE
ORANGE COUNTY OFFICE**

Mr. Patrick Cullip
June 27, 2016
Page 2

If you have any questions or would like further information regarding your request, please contact me at (818) 717-6522.

Sincerely,

A handwritten signature in black ink, appearing to read "Glenn Castillo". The signature is written in a cursive style with a large initial "G".

Glenn Castillo/cs
Regional Records Coordinator



Department of Toxic Substances Control



Matthew Rodriguez
Secretary for
Environmental Protection

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr.
Governor

June 16, 2016

Mr. Patrick Cullip
Ninyo & Moore
475 Goddard, Suite 200
Irvine, CA 92618

8140 Vanalden Avenue, Reseda, CA 91335
18904 Roscoe Boulevard, Northridge, CA 91324
2641 East Spring Street, Long Beach, CA 90806
4100, 4301, and 4310 Donald Douglas Drive, Long Beach, CA 90808
PR3-061616-10

Dear Mr. Cullip:

We have received your Public Records Act Request for records from the Department of Toxic Substances Control.

After a thorough review of our files we have found that no such records exist at this office pertaining to the site/facility referenced above.

We would also like to inform you about Envirostor, a database that provides information and documents on over 5,000 DTSC cleanup sites. Envirostor can be accessed at: <http://www.envirostor.dtsc.ca.gov/public>. Also, a computer is available in the Central Files of each DTSC Regional Office for use by community members to view Envirostor.

If you have any questions or would like further information regarding your request, please contact me at (818) 717-6521.

Sincerely,

Vivien Tutaan/aa
Regional Records Coordinator

RECEIVED

JUN 23 2016

**NINYO & MOORE
ORANGE COUNTY OFFICE**

Los Angeles
Regional Water
Quality Control
Board

101 Centre Plaza Drive
Monterey Park, CA
91754-2156
(213) 266-7500
FAX (213) 266-7600

December 12, 1996

Mr. Bryan Van Wagner
Thrifty Oil Company
10000 Lakewood Boulevard
Downey, CA 90240-4082



Pete Wilson
Governor

**UNDERGROUND STORAGE TANK CASE CLOSURE
THRIFTY OIL STATION #069
18904 ROSCOE BOULEVARD, NORTHRIDGE (ID #913240589)**

Dear Mr. Van Wagner,

This letter confirms the completion of the site investigation and remedial action for the underground storage tank(s) formerly located at the above-described location.

Based on the available information and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721(e).

If you have groundwater monitoring wells or vapor extraction wells at the subject property, you must comply with the following:

1. All wells must be located and properly abandoned.
2. Well abandonment permits must be obtained from the Los Angeles County Department of Health Services, and all other necessary permits must be obtained from the appropriate agencies prior to the start of work.
3. You must submit a report on the abandonment of the wells to this office by January 27, 1996. This report must include, at a minimum, a site map, a description of the well abandonment process, and copies of all signed permits.

UNDERGROUND STORAGE TANK CASE REVIEW FORM

Date: 12-12-96		LUSTIS file no.: ID #913240589		Case reviewer: Jose Pereyra	
Site Name/Address: Thrifty Oil Station #069 18904 Roscoe Boulevard Northridge, CA 91324		Responsible parties: Bryan Van Wagner Thrifty Oil Company		Address: 10,000 Lakewood Boulevard Downey, CA 90240-4082	
				Phone no.: (310) 622-2300	

I. CASE INFORMATION (N/A = Not Applicable)

Tank No.	Size in Gallons	Contents	Closed in-place/Removed?	Date
1	12,000	Gasoline	Removed	1987
2	8,000	Gasoline	Removed	1987
3	5,000	Gasoline	Removed	1987
4	5,000	Gasoline	Removed	1987

II. SITE CHARACTERIZATION INFORMATION (GW=groundwater, -- =Not Reported)

GW Basin: S.F. Valley	Beneficial uses: MUN	Depth to drinking water aquifer:	
Distance to nearest municipal supply well:		Distance between known shallow GW contamination and aquifer:	
GW highest depth: 12 ft	GW lowest depth: 17 ft	Well screen interval:	Flow direction: west-southwest
Soil types: silty clays		Maximum soil depth sampled: 18 ft	

III. MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS -- Initial and Latest (ND=Non-detect; NRQ=Not required)

Contaminant	Soil (mg/kg)		Water (µg/L)		Contaminant	Soil (mg/kg)		Water (µg/L)	
	Initial (1987)	Latest (1995)	Initial (1987)	Latest (1996)		Initial (1987)	Latest (1995)	Initial (1987)	Latest (1996)
TPH (Gas)	3,900	3,400	FP	40,000*	Ethylbenzene	49	120	FP	4,800*
TPH (Diesel)	--	--	--	--	Xylenes	520	280	FP	2,400*
Benzene	14	95	FP	4,900*	MTBE	--	--	--	--
Toluene	190	65	FP	770*	Other	--	--	--	--

IV. SOIL REMEDIATION

Method: Excavate & dispose at tank removal / soil VES	Duration of remediation: 2 - 3 days / 10 months
---	---

V. GROUNDWATER REMEDIATION

Method: NONE	Duration of remediation: NA
--------------	-----------------------------

VI. FREE PRODUCT:

Was free product encountered? Yes	Has free product been totally recovered? Yes
When was free product recovery project completed? December 1987	

VII. RECOMMENDED ACTION:

Soil Closure only: No	Case Closure: Yes	Solvent Case? No
Additional Action Required (i.e.: additional site assessment, remediation, monitoring): abandon GW/VES wells		

VIII. COMMENTS AND JUSTIFICATION FOR RECOMMENDED ACTION:

*NOTE: These values are from GW Well MW-2 which is only 1 of 2 wells (of a total of 11) which still contain detectible concentrations of gasoline. Well MW-2 was the well which originally contained free product. Quarterly GW monitoring data has demonstrated that the dissolved gasoline plume has shrunk in size, stabilized and is limited to only 2 wells (MW-1 & MW-2), all other wells contain nondetectible concentrations of gasoline.

A soil vapor extraction system (VES) operated on site for approximately 10 months and removed an estimated 5,730 pounds of hydrocarbons. The system influent concentrations have since reached asymptotic levels ranging below 210 ppmv.

Recommendation: This site can be closed.

[Signature]
12/12/96

THRIFTY OIL CO.

August 28, 1996

RECEIVED
96 SEP -3 PM 2:45

QUALITY CONTROL BOARD
LOS ANGELES REGION

Gregg Kwey
UST II Closure Unit
California Regional Water Quality Control Board
Los Angeles Region
101 Centre Plaza Drive
Monterey Park, Ca 91754-2156

RE: Request For Closure (ID #913240589)
Former Thrifty Oil Station #069
18904 Roscoe Boulevard
Northridge, California

UST UNIT _____
RECEIVED _____
CASE # 913240589
DATE 9/5/96
STAFF PK
JP

Dear Mr. Kwey,

INTRODUCTION

Presented herein is a Request For Closure prepared for former Thrifty Oil Station #69 located at 18904 Roscoe Boulevard in Northridge, California (Figure 1). This closure request has been prepared in light of the findings presented in the Lawrence Livermore National Laboratory report entitled "Recommendations to improve the Cleanup Process for California's Leaking Underground Fuel Tanks" and subsequent comments issued by the Executive Director of the State Water Resources Control Board recommending that the use of active remediation be reduced and utilize natural passive remediation whenever possible. Presented in this request for closure are a brief site description, summary of site conditions and request to discontinue active remediation and allow any residual hydrocarbons to naturally degrade.

SITE DESCRIPTION

Former Thrifty Oil Station #069 is situated at the south-west corner of the intersection of Roscoe Boulevard and Wilbur Street. The former station consisted of four (4) gasoline underground storage tanks (two 5,000 gallon, one 8,000 gallon, and one 12,000 gallon), two dispenser islands, and one used oil tank (Figure 2). The property is currently vacant and is bounded on the west by light commercial facilities and on the north, south, and east by residential structures.



PREVIOUS INVESTIGATIONS AND REMEDIATION

In August, 1987 the four underground storage tanks and the associated piping and dispenser islands were removed from the site. Soil samples obtained from beneath the tank zone indicated the presence hydrocarbons in subsurface soil. These soils were removed from the tank excavation and spread out on-site to aerate. Both the Air Quality Management District and the Los Angeles County Fire Department were consulted prior to these remedial activities. Details of the tank removal, soil sample collection and analysis, and remedial activities were presented in the August 27, 1987 Robert Elbert and Associates, Inc. (RE&A) report, entitled "Tank Removal Report for Thrifty Oil Station #069". In June 1992 nine surficial soil samples were collected and analyzed. Results of laboratory analysis conducted on these samples indicated hydrocarbon concentrations below laboratory detection limits in all samples, thus, confirming the complete aeration of tank excavated soils. Results of these sampling activities were presented in the Additional Site Assessment Report, dated July 1992.

In October, 1987 an initial investigation was conducted by RE&A consisting of the drilling and sampling of five (5) groundwater monitoring wells MW-1 through MW-5. This investigation detected the presence of hydrocarbons in monitoring wells MW-3 and MW-5 and free floating hydrocarbons in wells MW-1 and MW-2. As an initial interim remedial action, a recovery trench was installed along the down-gradient southern and eastern property boundaries. Free hydrocarbon was removed from the recovery trench during the period from October to December 1987. Details of these investigative and remedial activities were presented in the RE&A report entitled, "Site Investigation Report for Thrifty Oil Company Station #069", dated December 2, 1987.

In June 1992, six additional monitoring wells were drilled, sampled and installed in order to further delineate the extent of hydrocarbons in shallow groundwater. These groundwater wells are gauged and sampled quarterly as part of the current groundwater monitoring program. The occurrence of hydrocarbons in groundwater based on the most recent groundwater sampling data is illustrated as **Figure 3**. Dissolved hydrocarbons are localized adjacent to monitoring wells MW-1 and MW-2.

In February 1995, an additional seven soil borings were drilled and sampled and five vapor extraction wells were installed. Hydrocarbons in subsurface soil appear to be limited to the capillary fringe zone at a depth of about 10 feet (**Figure 5**). A summary of historical laboratory analysis conducted on soil and groundwater samples are provided as Tables 1 and 2, respectively.

GEOLOGY AND HYDROGEOLOGY

Former Thrifty Station #069 overlies the San Fernando subarea of the Upper Los Angeles River groundwater basin. The water-bearing sediments consist of Quaternary age alluvium and the Saugus Formation. The alluvium is generally comprised of poorly sorted, uncemented alluvial fan and fluvial deposits.

The San Fernando Hydrogeologic subunit is divided into two sections, as determined by the source rock for the alluvial sediments. Former station #069 is located in the western section, where the source rocks are comprised of sedimentary formations. These rocks produce higher percentages of clays and silts, and have created confined groundwater conditions within the Saugus Formation. Since the alluvium in this western section of the subunit produce low flow conditions, this aquifer is not used for domestic water supply (RE&A,1987).

Local shallow subsurface conditions beneath the site have been explored by the drilling and sampling of eighteen (18) soil borings to depths ranging from approximately 15 to 35 feet below ground surface. In general, soils encountered during drilling activities consisted of uncemented laterally discontinuous alluvial deposits composed of clay, silty clay, sandy clay, and clayey silt. Groundwater occurs beneath the site under unconfined to semi-confined conditions at a depth of approximately 12 feet below ground surface. The general direction of groundwater flow is toward the southeast with a gradient of about 0.004 ft/ft. Hydraulic conductivities estimated based on a pumping test conducted in well MW-6 ranged from 1 to 94 gpd/sqft.

SOURCE REMOVAL

Additional source removal activities were conducted from March through June 1995 and February through July 1996. This source removal was conducted utilizing soil vapor extraction technology. Soil vapors were extracted and destroyed from subsurface soils using a VR Systems Thermal Oxidizer. This unit consists of two internal combustion engines which operate independently. A summary of operational data for each engine is supplied as Tables 4 and 5. Engine #1 operated for approximately 2,275 hours and removed an estimated 12,200 pounds of hydrocarbons. Engine #2 operated for approximately 2,523 hours and removed about 5,730 pounds of hydrocarbons.

Initially in the active remediation process, soil vapors were extracted from wells MW-2, MW-6, VW-1, VW-2, VW-3, VW-4 and VW-6. As vapor concentrations (measured in the field with a flame ionization detector) in each of these wells decreased, individual wells were disconnected from the system to provide greater system effectiveness the highest total extracted vapor concentrations possible. During the remedial process, total soil vapor concentrations (as measured in the field) decreased from greater 10,000 ppm to only 750 ppm (Figure 5). Laboratory analytical results of soil vapor samples collected on June 1, 1995 indicated a hydrocarbon concentration of 210 ppmV.

REQUEST FOR CLOSURE

Based on the following summary of site conditions, Thrifty proposes that remedial activities be suspended, remedial equipment be removed, and all wells be properly abandoned.

- o All underground storage tanks and lines were removed from the site in 1987 eliminating the potential for a continuing source of hydrocarbons to degrade local groundwater resources.
- o Hydrocarbons present in soil, prior to the initiation of active source removal, appear to be localized at a depth of about 10 feet below ground surface and associated with the capillary fringe area.
- o The hydrocarbons detected in soil samples collected from off-site borings MW-9 and MW-11 do not appear to have adversely impacted local shallow groundwater. Analysis of groundwater samples collected from these wells indicate very low hydrocarbon concentrations (Table 2).
- o Vapor extraction activities were conducted for about 4,800 hours using both engines and an estimated 17,900 pounds of hydrocarbons were removed.
- o Total hydrocarbon concentrations extracted from wells have decreased significantly since initiation of active remediation and have approached asymptotic levels (Figure 5). Therefore, the usefulness and cost effectiveness of continued active remediation has significantly diminished.
- o Groundwater is present beneath the site a depth of about 12 to 15 feet below ground surface and is part of the western section of the San Fernando Hydrogeologic Subunit. Due to low flow conditions, this aquifer is not used for domestic water supply.
- o Four years of groundwater monitoring has demonstrated that the dissolved fuel hydrocarbon plume is stable and contained on-site (Figure 3).

Thrifty has utilized the best available technologies to implement source removal at this site. Thrifty believes that continued operation of this equipment will not reach the established drinking water cleanup standards and would incur excessive costs. Results of the last four years of quarterly groundwater monitoring has demonstrated that the dissolved hydrocarbon plume is stable and contained on-site and that residual hydrocarbon concentrations reported in soil samples collected from wells MW-9 and MW-11 have not adversely impacted shallow groundwater. Thrifty herein proposes that no further remedial action be required and residual hydrocarbons remaining soil and groundwater be allowed to naturally degrade.

MEMO #2

TABLE 1
SUMMARY OF LABORATORY ANALYSIS
SOIL SAMPLES
THRIFTY OIL STATION #069

SAMPLE NUMBER	SAMPLE DEPTH (feet)	ANALYTICAL PARAMETERS				TPH
		BENZENE	TOLUENE	ETHYL-BENZENE	XYLENE	
S-1	1	ND	ND	ND	ND	ND
S-2	1	ND	ND	ND	ND	ND
S-3	1	ND	ND	ND	ND	ND
S-4	1	ND	ND	ND	ND	ND
S-5	1	ND	ND	ND	ND	ND
S-6	1	ND	ND	ND	ND	ND
S-7	1	ND	ND	ND	ND	ND
S-8	1	ND	ND	ND	ND	ND
S-9	1	ND	ND	ND	ND	ND
MW-1	10	14	190	49	520	3,900
	16	0.09	0.29	0.09	1.0	4.9
MW-2	10	0.1	0.2	0.2	1.9	20
	16	0.16	0.05	0.01	0.03	0.73
MW-3	10	0.58	0.13	2.3	3.0	50
	16	ND	0.029	ND	ND	0.29
	25	ND	0.003	ND	0.002	ND
MW-4	10	ND	ND	0.6	4.3	54
	16	ND	0.09	ND	0.01	0.32
	25	0.003	0.08	ND	0.006	2.4
MW-5	15	4.9	23	16	240	990
	18	0.004	0.016	0.005	0.052	0.45
MW-6	5	ND	ND	ND	ND	40
	10	4.4	10.3	1.6	16.4	1,610
	15	ND	ND	ND	ND	ND
MW-7	5	ND	ND	ND	ND	60
	10	ND	ND	ND	0.3	85
	15	0.3	7.8	ND	15.3	660
MW-8	5	ND	ND	ND	7.3	265
	10	ND	ND	ND	3.0	160
	15	ND	ND	ND	ND	ND
MW-9	5	ND	ND	ND	ND	60
	10	8.3	21.9	4.2	52.9	2,500
	15	ND	ND	ND	ND	60
MW-10	10	ND	ND	ND	ND	ND
	15	ND	ND	ND	ND	ND
MW-11	5	3.2	9.6	0.6	9.0	750
	10	5.8	11.3	1.2	17.9	1,530
	15	ND	ND	ND	ND	60

NOTES: All results reported in milligrams per kilograms (mg/kg)

ND = Not detected above laboratory detection limits

Detection limits for EPA method 8020 = 0.005 mg/kg and 8015 = 5 mg/kg

TPH = Total petroleum hydrocarbons by EPA method 8015

**TABLE 2
WATER QUALITY DATA
THRIFTY OIL STATION #069**

DATE SAMPLED	TPH	ANALYTICAL PARAMETERS			
		BENZENE	TOLUENE	XYLENE	ETHYLBENZENE
<i>MONITORING WELL MW-1</i>					
Mar 30, 1992	20,000	1,800	2,000	4,300	630
Jun 26, 1992	-	-	-	-	-
Dec 22, 1992	-	-	-	-	-
Sep 6, 1994	7,900	140	200	760	160
Dec 20, 1994	-	-	-	-	-
Mar 29, 1995	7,700	930	120	710	34
May 13, 1995	-	-	-	-	-
Jun 28, 1995	8,900	170	1.2	1,200	0.8
Sep 28, 1995	6,200	170	77	580	170
Dec 14, 1995	22,000	2,300	670	4,500	940
Apr 13, 1996	5,600	280	100	560	280
<i>MONITORING WELL MW-2</i>					
Mar 30, 1992	-	-	-	-	-
Jun 26, 1992	-	-	-	-	-
Dec 22, 1992	-	-	-	-	-
Sep 6, 1994	41,000	860	720	2,600	1,000
Dec 20, 1994	-	-	-	-	-
Mar 29, 1995	-	-	-	-	-
May 13, 1995	-	-	-	-	-
Jun 28, 1995	-	-	-	-	-
Sep 28, 1995	-	-	-	-	-
Dec 14, 1995	-	-	-	-	-
Apr 13, 1996	40,000	4,900	770	4,800	2,400
<i>MONITORING WELL MW-3</i>					
Mar 30, 1992	-	-	-	-	-
Jun 26, 1992	<200	<0.5	<0.5	<0.5	<0.5
Dec 22, 1992	<200	2.6	2.4	5.8	1.8
Sep 6, 1994	<50	<0.3	<0.3	<0.5	<0.3
Dec 20, 1994	<50	<0.3	<0.3	<0.5	<0.3
Mar 29, 1995	9,000	2,800	23	140	<10
May 13, 1995	1,000	180	5.6	11	39
Jun 28, 1995	120	<0.5	<0.5	<1	<0.5
Sep 28, 1995	<100	<0.5	<0.5	<1	<0.5
Dec 14, 1995	<50	<0.3	0.35	<0.5	<0.3
Apr 13, 1996	<50	<0.3	<0.3	<0.5	<0.3

Notes: All data was collected by EMC. Samples analyzed by EPA methods 8015/8020
 Analytical results reported in ug/l,
 "- " No samples obtained during this sampling reporting period.

MEMO #2

TABLE 2
WATER QUALITY DATA
THRIFTY OIL STATION #069

DATE SAMPLED	ANALYTICAL PARAMETERS				
	TPH	BENZENE	TOLUENE	XYLENE	ETHYLBENZENE
<i>MONITORING WELL MW-4</i>					
Mar 30, 1992	<200	<0.5	<0.5	<0.5	<0.5
Jun 26, 1992	<200	<0.5	<0.5	<0.5	<0.5
Dec 22, 1992	300	13	40	60	14
Sep 6, 1994	160	<0.3	<0.3	<0.5	<0.3
Dec 20, 1994	<50	<0.3	<0.3	<0.5	<0.3
Mar 29, 1995	1,400	<0.5	<0.5	48	<0.5
May 13, 1995	<100	<0.5	<0.5	<1	<0.5
Jun 28, 1995	<100	<0.5	<0.5	<1	<0.5
Sep 28, 1995	<100	<0.5	<0.5	<1	<0.5
Dec 14, 1995	<50	<0.3	<0.3	<0.5	<0.3
Apr 13, 1996	<50	<0.3	<0.3	<0.5	0.5
<i>MONITORING WELL MW-5</i>					
Mar 30, 1992	13,000	6,700	250	1,100	370
Jun 26, 1992	<200	5.2	<0.5	0.9	<0.5
Dec 22, 1992	600	44	55	98	<0.5
Sep 6, 1994	400	52	<0.3	<0.5	<0.3
Dec 20, 1994	<50	<0.3	<0.3	<0.5	<0.3
Mar 29, 1995	1,100	120	0.65	65	<0.5
May 13, 1995	170	1.8	<0.5	<1	5.3
Jun 28, 1995	<100	<0.5	<0.5	<1	<0.5
Sep 28, 1995	<100	3.0	<0.5	<1	<0.5
Dec 14, 1995	110	5.4	<0.3	<0.5	<0.3
Apr 13, 1996	<50	<0.3	<0.3	<0.5	<0.3
<i>MONITORING WELL MW-6</i>					
Mar 30, 1992	-	-	-	-	-
Jun 26, 1992	<200	<0.5	<0.5	<0.5	<0.5
Dec 22, 1992	500	20	60	79	19
Sep 6, 1994	<50	<0.3	<0.3	<0.5	<0.3
Dec 20, 1994	<50	<0.3	<0.3	<0.5	<0.3
Mar 29, 1995	9,400	470	78	2,100	<5
May 13, 1995	1,100	280	<2.5	6.1	42
Jun 28, 1995	<100	<0.5	<0.5	<1	<0.5
Sep 28, 1995	<100	<0.5	<0.5	<1	<0.5
Dec 14, 1995	<50	<0.3	0.3	<0.5	<0.3
Apr 13, 1996	<50	<0.3	<0.3	<0.5	<0.3

Notes: All data was collected by EMC. Samples analyzed by EPA methods 8015/8020

Analytical results reported in ug/l,

"-" No samples obtained during this sampling reporting period.

TABLE 2 (Continued)
 WATER QUALITY DATA
 THRIFTY OIL STATION #069

DATE SAMPLED	TPH	ANALYTICAL PARAMETERS			
		BENZENE	TOLUENE	XYLENE	ETHYLBENZENE
<i>MONITORING WELL MW-7</i>					
Mar 30, 1992	-	-	-	-	-
Jun 26, 1992	1,100	<0.5	1.3	37	0.9
Dec 22, 1992	<200	<0.5	<0.5	<1.0	<0.5
Sep 6, 1994	<50	<0.3	<0.3	<0.5	<0.3
Dec 20, 1994	<50	<0.3	<0.3	<0.5	<0.3
Mar 29, 1995	12,000	260	160	400	990
May 13, 1995	530	6.9	<0.5	1.2	48
Jun 28, 1995	<100	<0.5	<0.5	<1	<0.5
Sep 28, 1995	<100	<0.5	<0.5	<1	<0.5
Dec 14, 1995	<50	<0.3	<0.3	<0.5	<0.3
Apr 13, 1996	<50	<0.3	0.34	<0.5	<0.3
<i>MONITORING WELL MW-8</i>					
Mar 30, 1992	-	-	-	-	-
Jun 26, 1992	<200	<0.5	<0.5	<0.5	<0.5
Dec 22, 1992	<200	<0.5	<0.5	3.0	0.9
Sep 6, 1994	100	<0.3	<0.3	<0.5	<0.3
Dec 20, 1994	<50	<0.3	<0.3	<0.5	<0.3
Mar 29, 1995	<100	<0.5	<0.5	<1	<0.5
May 13, 1995	-	-	-	-	-
Jun 28, 1995	<100	<0.5	<0.5	<1	<0.5
Sep 28, 1995	<100	0.51	0.73	3.3	1.8
Dec 14, 1995	<50	<0.3	<0.3	<0.5	<0.3
Apr 13, 1996	<50	<0.3	0.58	<0.5	<0.3
<i>MONITORING WELL MW-9</i>					
Mar 30, 1992	-	-	-	-	-
Jun 26, 1992	5,800	1,600	240	2,700	<5.0
Dec 22, 1992	6,200	1,700	100	940	<25
Sep 6, 1994	69	<0.3	<0.3	<0.5	<0.3
Dec 20, 1994	<50	<0.3	<0.3	<0.5	<0.3
Mar 29, 1995	<100	<0.5	<0.5	<1	<0.5
May 13, 1995	-	-	-	-	-
Jun 28, 1995	130	<0.5	<0.5	<1	<0.5
Sep 28, 1995	<100	<0.5	<0.5	<1	<0.5
Dec 14, 1995	110	0.61	<0.3	<0.5	<0.3
Apr 13, 1996	<50	<0.3	<0.3	<0.5	<0.3

Notes: All data was collected by EMC. Samples analyzed by EPA methods 8015/8020

Analytical results reported in ug/l,

"-" No samples obtained during this sampling reporting period.

**TABLE 2 (Continued)
WATER QUALITY DATA
THRIFTY OIL STATION #069**

DATE SAMPLED	TPH	ANALYTICAL PARAMETERS			
		BENZENE	TOLUENE	XYLENE	ETHYLBENZENE
<i>MONITORING WELL MW-10</i>					
Mar 30, 1992	-	-	-	-	-
Jun 26, 1992	<200	<0.5	<0.5	1.6	<0.5
Dec 22, 1992	<200	<0.5	<0.5	2.2	<0.5
Sep 6, 1994	<50	<0.3	<0.3	<0.5	<0.3
Dec 20, 1994	<50	<0.3	<0.3	<0.5	<0.3
Mar 29, 1995	140	0.8	6.2	13	2.0
May 13, 1995	-	-	-	-	-
Jun 28, 1995	<100	<0.5	<0.5	<1	<0.5
Sep 28, 1995	<100	<0.5	<0.5	<1	<0.5
Dec 14, 1995	<50	<0.3	0.42	<0.5	<0.3
Apr 13, 1996	<50	<0.3	0.8	1.2	<0.3
<i>MONITORING WELL MW-11</i>					
Mar 30, 1992	-	-	-	-	-
Jun 26, 1992	100	250	2.1	630	<0.5
Dec 22, 1992	900	310	6.1	210	<0.5
Sep 6, 1994	90	<0.3	<0.3	<0.5	<0.3
Dec 20, 1994	<50	<0.3	<0.3	<0.5	<0.3
Mar 29, 1995	<100	<0.5	<0.5	<1	<0.5
May 13, 1995	-	-	-	-	-
Jun 28, 1995	-	-	-	-	-
Sep 28, 1995	<100	<0.5	<0.5	<1	<0.5
Dec 14, 1995	<50	<0.3	0.57	<0.5	<0.3
Apr 13, 1996	<50	0.34	0.36	<0.5	<0.3

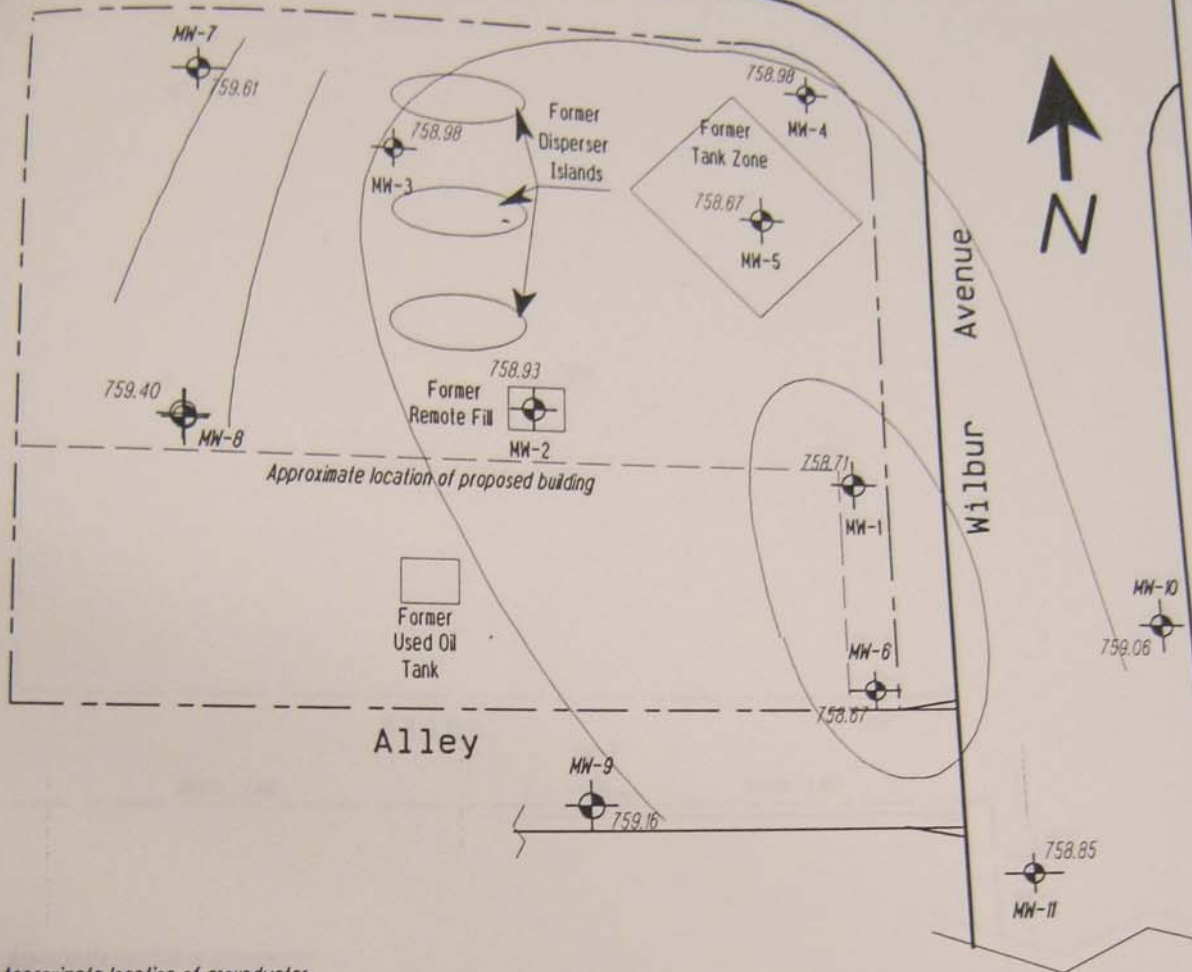
Notes: All data was collected by EMC. Samples analyzed by EPA methods 8015/8020

Analytical results reported in ug/l,


"-" No samples obtained during this sampling reporting period.

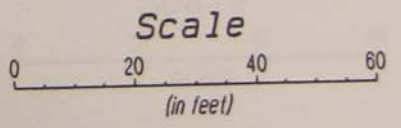
THIRTY OIL CO. 18904

Roscoe Boulevard



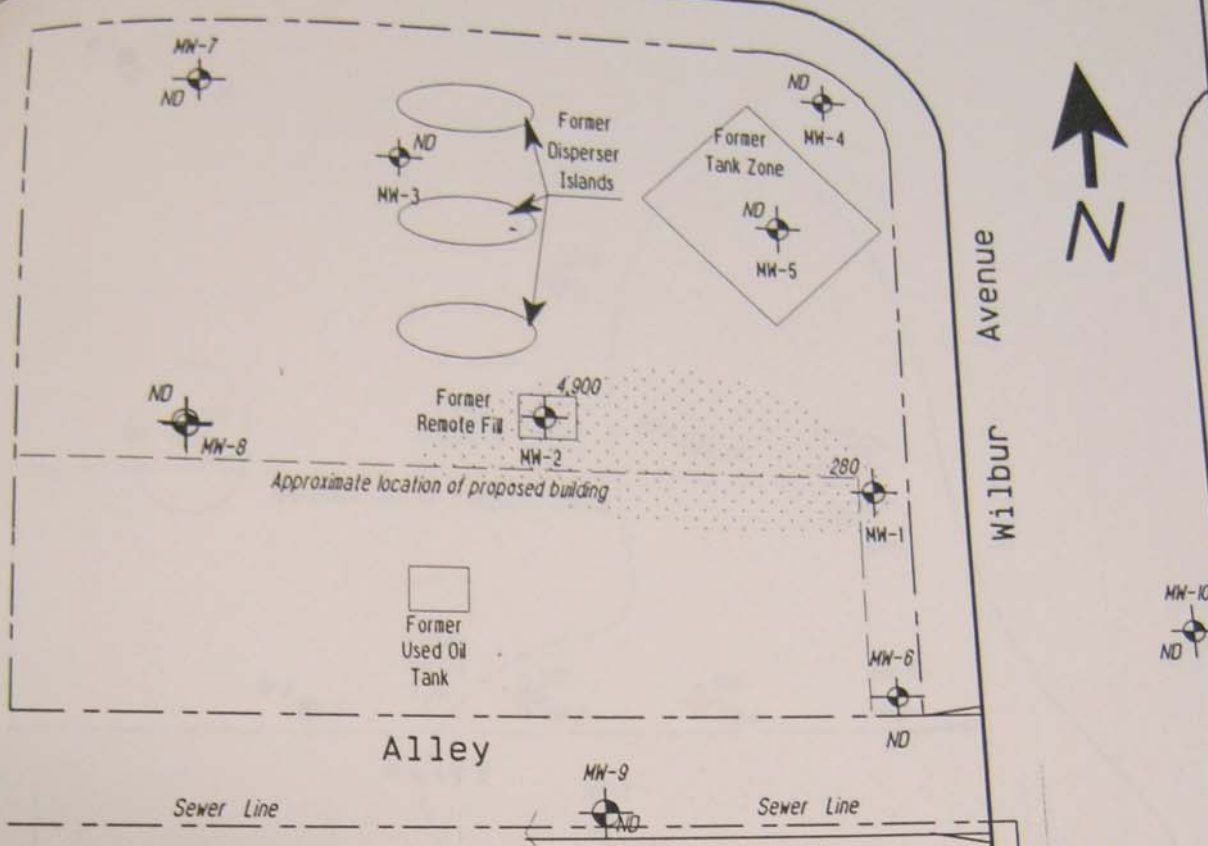
Legend

-  Approximate location of groundwater monitoring well
- Groundwater elevation data obtained by EMC on March 13, 1996*
- Arrow denotes general direction of groundwater flow*



 THRIFTY OIL CO.	Thrifty Oil Co. 10000 Lakewood Boulevard Downey, California	
	Groundwater Elevation Map Former Thrifty Station #69 Northridge, California	
Drawn By: BVW	Date: 2/9/95	Scale: Figure:

Roscoe Boulevard



Legend



Approximate location of groundwater monitoring well



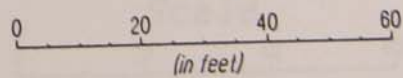
Occurrence of benzene in groundwater > 1ug/l
Concentrations reported in ug/l, (EPA method 8020)

ND = TPH and benzene not detected above detection limits.

Samples obtained by EMC on March 13, 1996

FP = Free product present

Scale



THRIFTY OIL CO.

Thrifty Oil Co.

10000 Lakewood Boulevard
Downey, California

Dissolved Benzene in Groundwater

Former Thrifty Station #069
Northridge, California

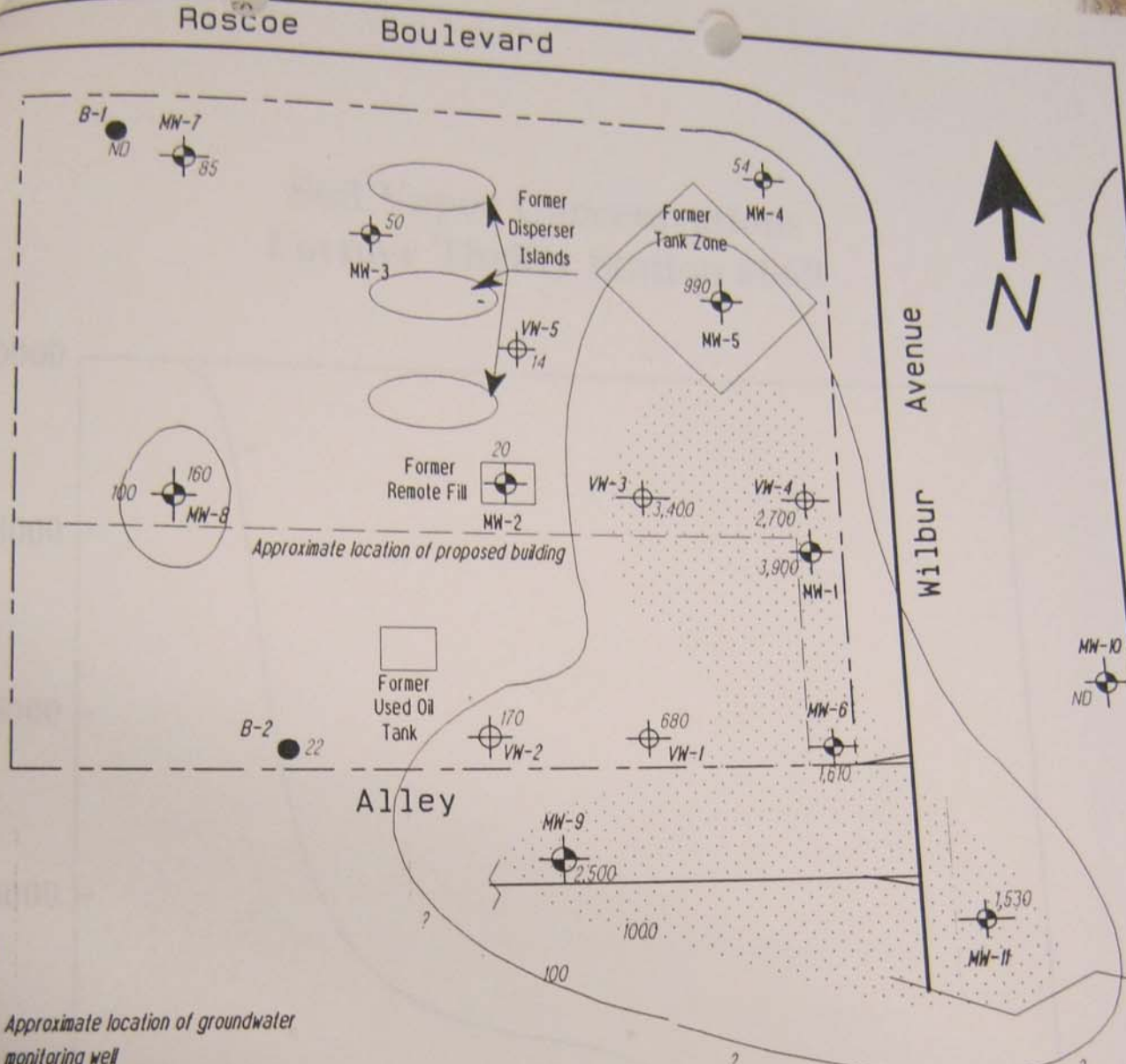
Drawn By: BVW

Scale:




Date: 2/9/95

Figure:


Project #:

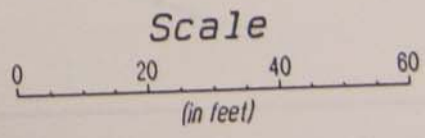



Legend

-  Approximate location of groundwater monitoring well
-  Approximate Location of Vapor Extraction Well
-  Approximate location of soil boring

TPH concentration reported in mg/kg, EPA 8015

 TPH concentration > 1,000 mg/kg in soil at a depth of 10 feet



 THRIFTY OIL CO.	Thrifty Oil Co. 10000 Lakewood Boulevard Downey, California	
	Hydrocarbons in Soil At 10 feet Former Thrifty Station #69 Northridge, California	
Drawn By:	BVW	Scale:
Date:	2/9/95	Figure:

5/7/96
6/4/96
TO: Al Novak

FROM: Jose Pereyra 04/29/96, Memo #2

SUBJECT: Thrifty Oil station #069, 18904 Roscoe Blvd., Northridge (ID #913240589)

BACKGROUND: The subject site is located at the corner of Roscoe & Wilbur in Northridge (figure 1). Petroleum hydrocarbon contamination was discovered in the soil and groundwater at this site during the removal of 5 USTs in August 1987. The site is currently vacant. Figure 2 contains a plot plan with the former locations of the tanks shown. *contaminated soil was removed from the area of the former tanks during tank removal.*

Additional site assessment was performed at the site in August 1995. Seven soil borings were drilled and five were converted into soil vapor extraction wells (VW-1 through VW-5 and B-1 & B-2). Their approximate locations are shown in figure 2. Three soil samples were collected from each boring at 5, 10 & 15 feet bgs for laboratory analysis. The laboratory results are listed in table 1. The results of the soil analyses are consistent with previous findings, and suggest that although there is some lower level contamination at shallow depths (5 ft. bgs), the majority of the hydrocarbon contamination lies between 10 - 15 feet bgs (the capillary fringe). **Groundwater** occurs beneath the site **at approximately 12 feet bgs.** Figure 3 contains a plot plan showing the estimated hydrocarbon (TPH) contamination plume in the soil at 10 feet bgs.

A Soil Vapor Extraction (SVE) pilot test was performed using wells MW-2, MW-6, and VW-1 through VW-5 to extract soil vapors. Wells MW-5, MW-8 & MW-9 were used as observation wells. The system operated for 1350 hours under a pressure of 63 - 20 inches of water at approximately 120 cfm. Total inlet hydrocarbon concentrations ranged from 10,000 ppm to 2,500 ppm. Hydrocarbon concentrations measured at each vapor extraction well ranged from 4,000 to greater than 10,000 ppm, and declined gradually to a range of 1,500 to 7,500 ppm after 1000 hours of operation. Vacuum measurements taken at the observation wells initially ranged from 0.1 to 0.5 inches of water, and stabilized at 0.1 inches of water after 1000 hours of operation. The vapor extraction Radius of Influence (ROI) was determined to be approximately 70 feet, using data from well MW-8.

A "Revised Workplan for Corrective Action," dated August 28, 1995 was submitted. In it, Thrifty Oil Company proposes to cleanup the soil contamination using soil vapor extraction. The system will use wells MW-2 (screened 10'-30') and VW-1 through VW-5 (screened 5'-15'), and will operate at a maximum flow rate of 120 cfm with a vacuum pressure of 20 inches of water and an expected ROI of 70 feet (figure 3). Groundwater Pump & Treat (previously evaluated & approved - memo #1) is proposed for cleanup of the hydrocarbon-impacted groundwater beneath the site. Wells MW-1, MW-2 & MW-9 are to be used to extract groundwater (figures 5 & 6).

MOST RECENT SUBMITTAL: The most recent submittal for the site is the "Quarterly Status Report," dated March 5, 1996. The report contains groundwater gauging and analysis data from samples obtained December 14, 1995. Groundwater occurs beneath the site at depths ranging from 12.06 to 17.42 ft bgs., (table 2). The groundwater flow direction was estimated to be toward the west and south-west, with a hydraulic gradient of 0.006 ft/ft (figure 4). This data

reflects a slight change; historically the gradient has been more toward the south.

The groundwater analysis results are presented in table 3. There have been gradual reductions in the concentrations of dissolved hydrocarbons in the groundwater beneath the site. Seven of the eleven groundwater monitoring wells (table 3) are currently at N.D. Monitoring wells MW-5 & MW-9 have very minimal TPH/benzene concentrations ($\mu\text{g/l}$) 110/5.4 and 110/0.61, respectively. However, monitoring well MW-2 still contains 0.06 ft. of free product, and well MW-1 contains TPH at 22,000 $\mu\text{g/l}$ & BTEX at 2,300/670/4,500/940 $\mu\text{g/l}$, respectively. Figures 5 and 6 ~~contain~~^{show} dissolved TPH and benzene contaminant plumes, respectively, in groundwater beneath the site.

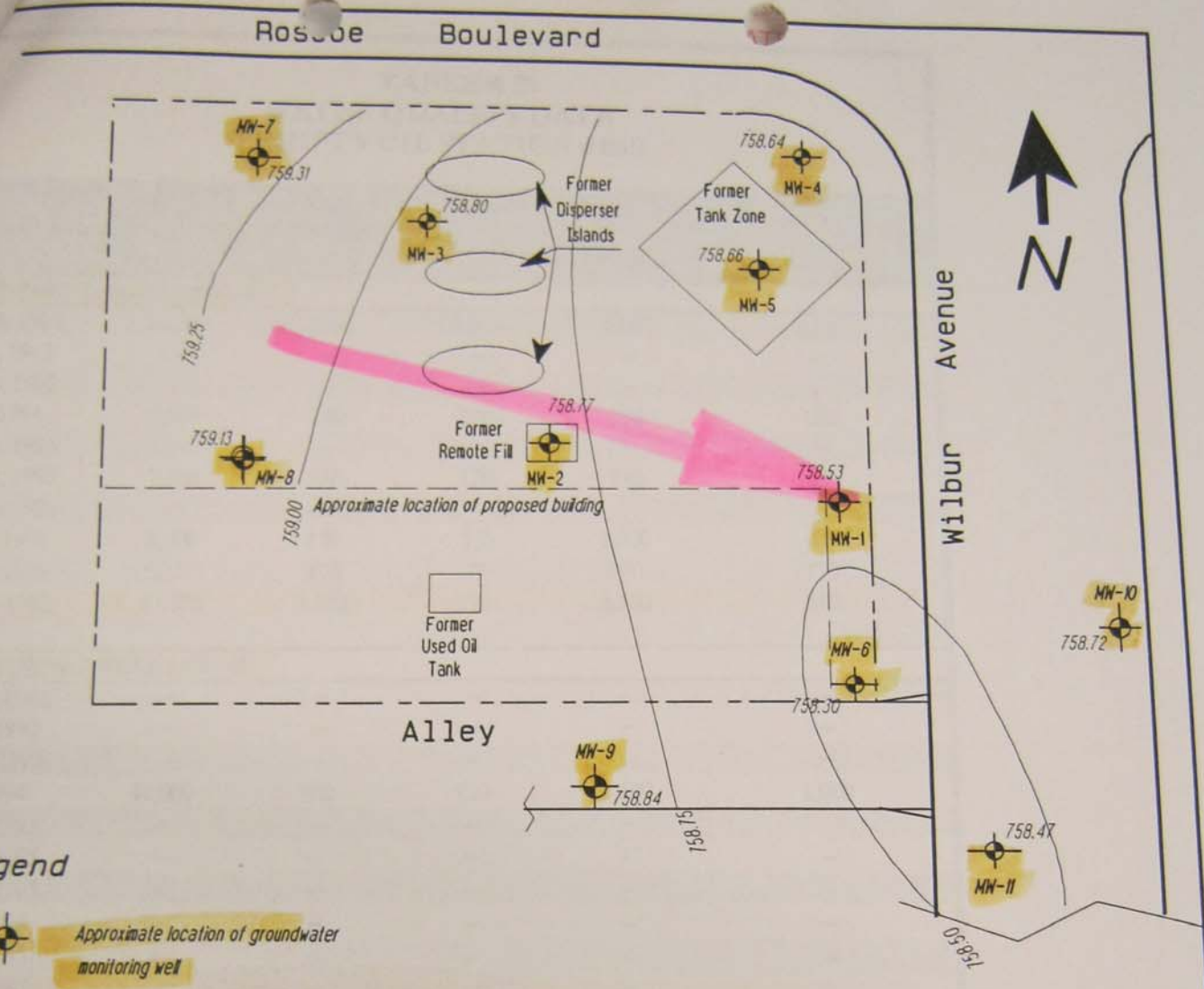
CONCLUSION AND RECOMMENDATIONS: The results of the soil analyses from the additional site assessment were consistent with previous findings, suggesting that the majority of the hydrocarbon contamination in the soil beneath the site lies between 10 - 15 feet bgs (the capillary fringe). The proposed soil cleanup system (vapor extraction) is to use 6 vapor extraction wells. The results of the vapor extraction pilot test were deemed favorable by the consultant. It appears that soil vapor extraction will work at this site.

The most recent groundwater analysis data shows a reduction in dissolved hydrocarbon concentrations, and stabilization of the groundwater contaminant plume. The proposed groundwater remediation system (pump & treat) is to use MW1, 2 & 9. Figure 7 contains the proposed layout of the groundwater extraction system along with the expected area of influence of groundwater recovery. The Pump & Treat system was previously evaluated in my file review memo, dated 12-19-94 (memo #1). The estimated hydraulic conductivity falls within the acceptable range for silts and silty clays so it appears that groundwater extraction is feasible.


In summary I recommend approval of the proposed corrective action plan. I've attached a letter to that effect.

STP LOCATION MAP
FORMER TRIFTY OIL STATION #089
NORTHRIDGE CALIFORNIA

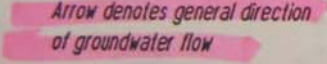
8904 ROSCOE BOULEVARD, NORTHridge

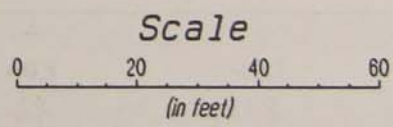


Legend

 Approximate location of groundwater monitoring well

Groundwater elevation data obtained by EMC on December 14, 1995

 Arrow denotes general direction of groundwater flow



 THRIFTY OIL CO.	Thrifty Oil Co. 10000 Lakewood Boulevard Downey, California	
	Groundwater Elevation Map Former Thrifty Station #69 Northridge, California	
Drawn By:	BVW	Scale:
Date:	2/9/95	Figure:
Project #:		4

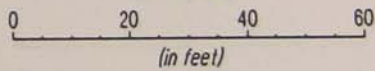
Roscoe Boulevard

Wilbur Avenue

Alley

Sewer Line

Scale



Legend



Approximate location of groundwater monitoring well



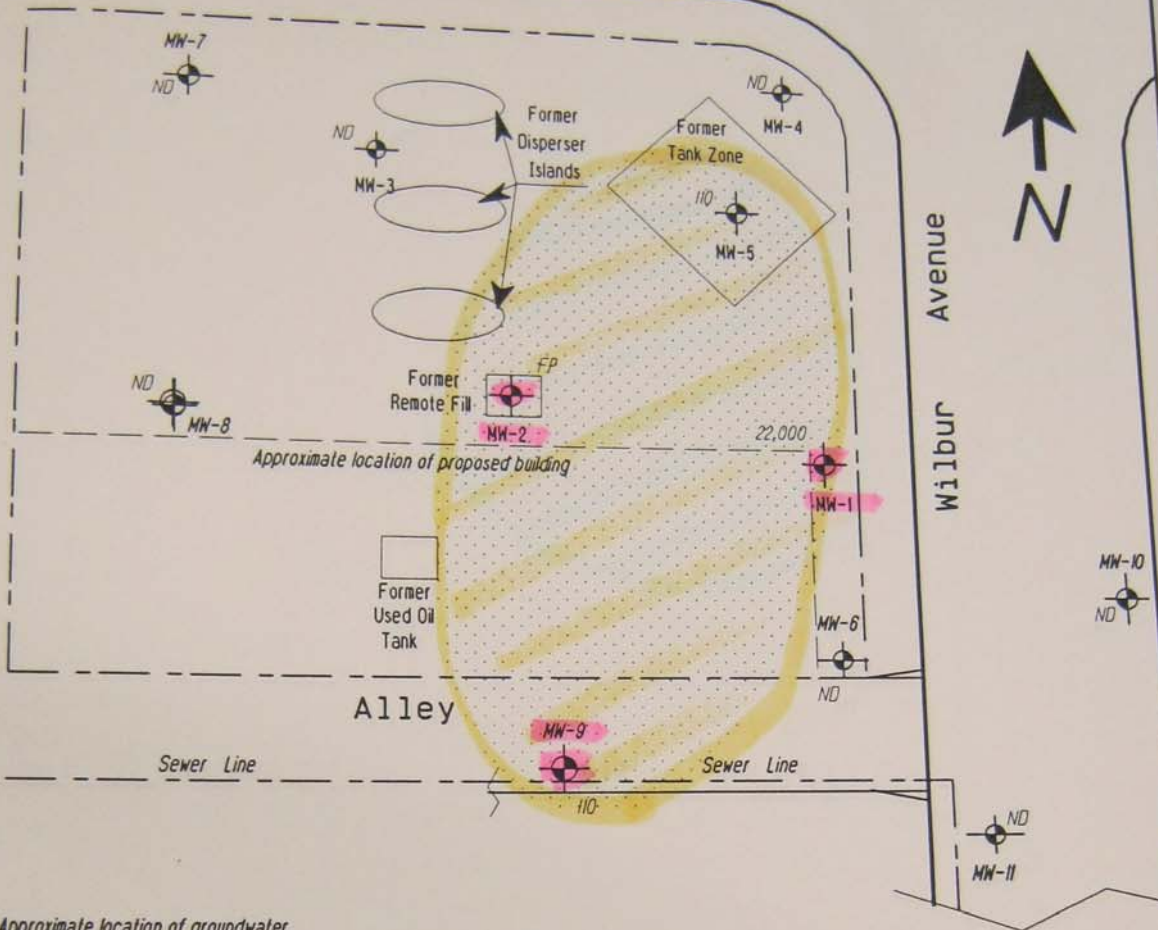
Approximate occurrence of TPH in groundwater
Concentrations reported in (ug/L) (EPA method 8015)

NP = TPH not detected above laboratory detection limits.

Samples obtained by EMC on December 14, 1995



WELLS TO BE USED IN
GROUNDWATER EXTRACTION SYST.



THRIFTY OIL CO.

Thrifty Oil Co.

10000 Lakewood Boulevard
Downey, California

Dissolved TPH in Groundwater

Former Thrifty Station #069
Northridge, California

Drawn By: BVW

Scale:

Date: 2/9/95

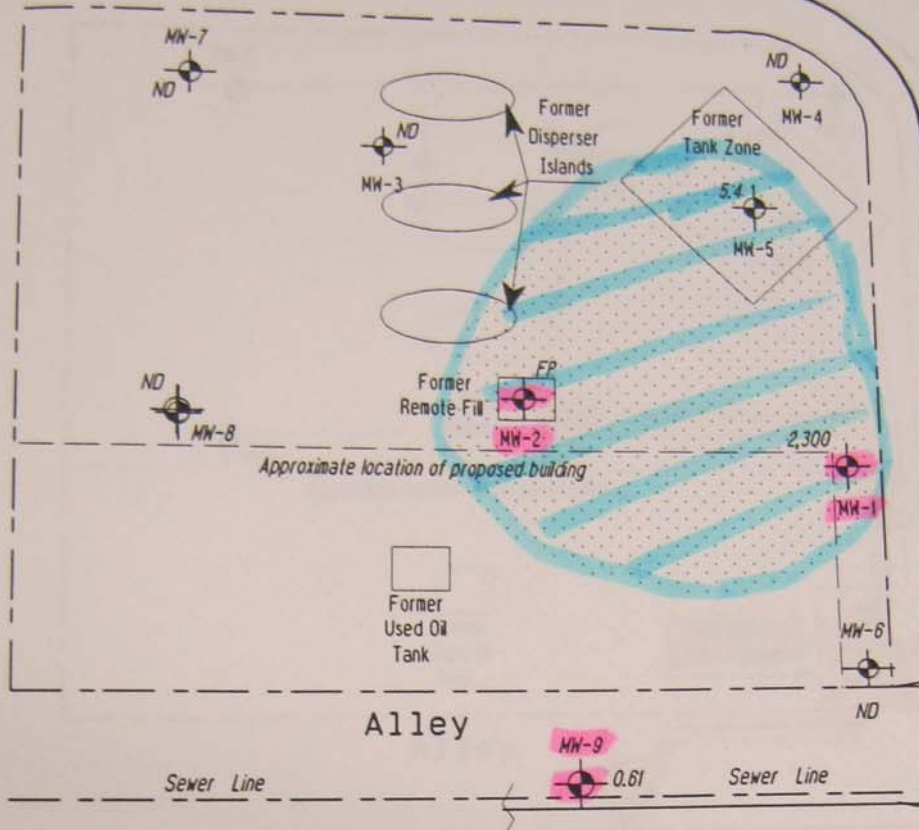
Figure:

Project #:

5

Roscoe Boulevard

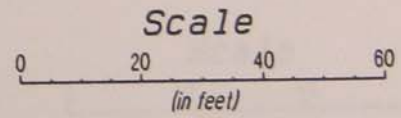
Wilbur Avenue



Legend

- Approximate location of groundwater monitoring well
- Occurrence of benzene in groundwater > 1ug/l
Concentrations reported in ug/l (EPA method 8020)

ND = TPH and benzene not detected above detection limits.
 Samples obtained by EMC on December 14, 1995
 FP = Free product present

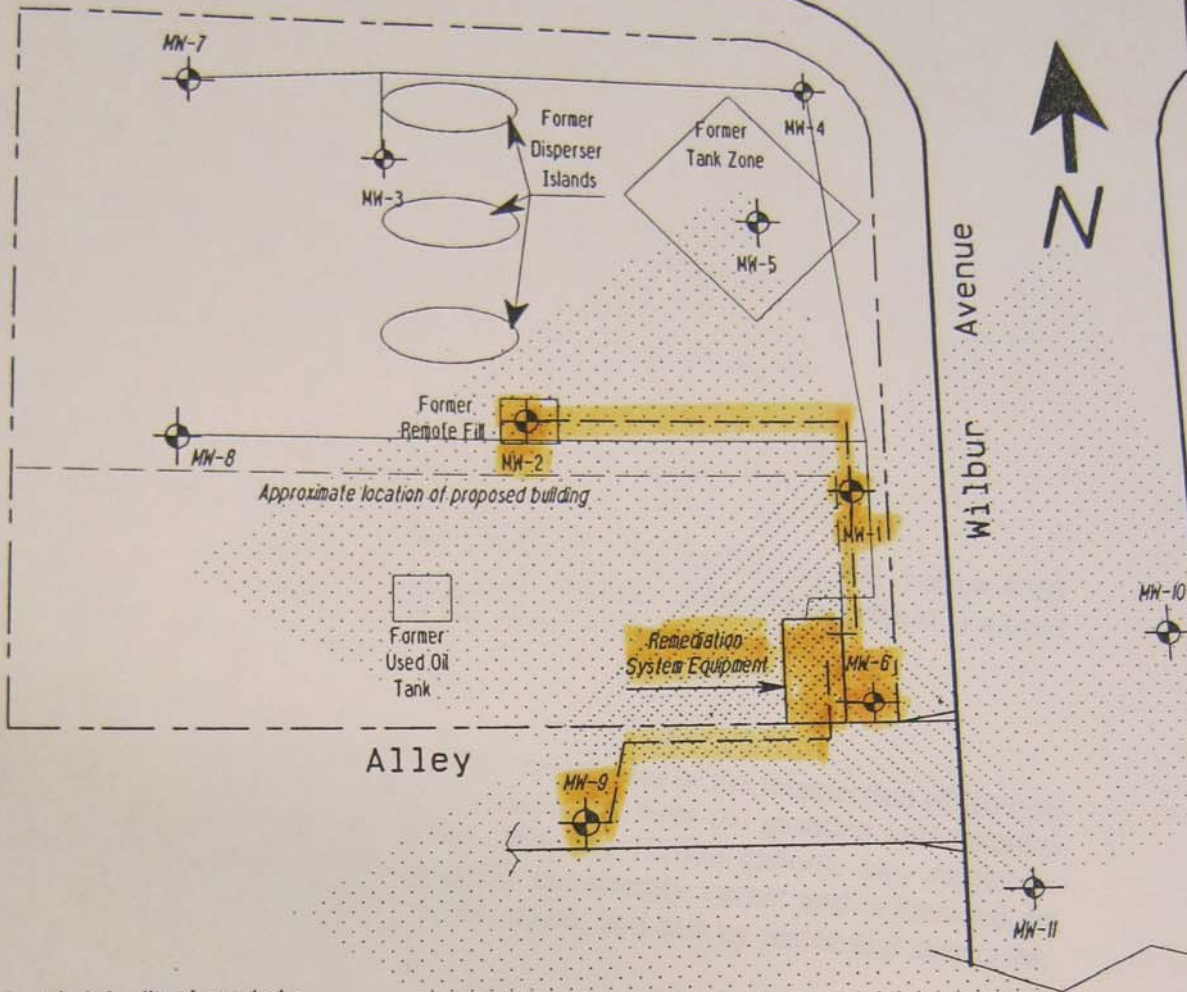


WELLS TO BE USED IN GROUNDWATER EXTRACTION SYST.

 THRIFTY OIL CO.	Thrifty Oil Co. 10000 Lakewood Boulevard Downey, California	
	Dissolved Benzene in Groundwater Former Thrifty Station #069 Northridge, California	
Drawn By:	BVW	Scale:
Date:	2/9/95	Figure:
Project #:		6

Roscoe Boulevard

Wilbur Avenue



Legend



Approximate location of groundwater monitoring well



Groundwater reapplication lines

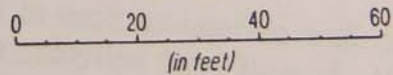


Recovery System influent lines



Anticipated area of influence of groundwater recovery system

Scale



GROUNDWATER EXTRACTOR SYST. LAYOUT



THRIFTY OIL CO.

REMEDATION SYSTEM LAYOUT AND ANTICIPATED AREA OF INFLUENCE FORMER THRIFTY OIL STATION #069 NORTHRIDGE CALIFORNIA

Fig. 7

Sept 15 '92 - C.A.P.

MATERIAL ENTERED INTO THE FILE:

Project name: THRIFTY OIL SS. #069, Project Number: 913240589
 Site Address: 18904 ROSCOE BLVD., NORTHRIDGE, CA 91324, File No: _____

Contact: BRYAN VAN WAGEN @ (30) 923-9076 x395

Record Date:	Corros. Date:	To/From	Subject	Initials
12/28/94	8/25/87	THRIFTY OIL / RE & A inc.	TANK CLOSURE REPORT	JP
12/28/94	9/10/87	LAFD / THRIFTY OIL	OST U.S.K. Form	JP
12/28/94	9/10/87	THRIFTY OIL / LAFD	FIRE/LIFE SAFETY VIOLATION Form	JP
	12/15/87	LAFD / THRIFTY OIL	200 gal waste oil OST removal report	JP
	12/11/87	RWQCB / THRIFTY	SITE ASSESSMENT REPORT	JP
	12/30/87	RWQCB / LAFD	case referral letter	JP
	10/21/88	RWQCB / RSI	R.A.P.	JP
12/28/94	4/7/92	THRIFTY / RWQCB	letter directing add'l site assessment	JP
12/29/94	4/28/92	RWQCB / THRIFTY	Workplan for ADD'L SITE ASSMT.	JP
	7/23/92	RWQCB / THRIFTY	ADD'L SITE ASSMT REPORT	JP
	9/15/92	RWQCB / THRIFTY	CORRECTIVE ACTION PLAN	JP
	8/15/94	THRIFTY / RWQCB	Telecomm. requesting add'l reports	JP
	8/26/94	RWQCB / THRIFTY	Quarterly GW monitoring report	JP
12/29/94	10/26/94	RWQCB / THRIFTY	NOTICE of intent to implement C.A.P.	JP
12/29/94	12/19/94	RWQCB	File review memo	JP
12/29/94	same	THRIFTY / RWQCB	Records Communication	JP
2/7/95	1/25/95	THRIFTY / RWQCB	Letter - Review of C.A.P.	JP
	2/9/95	RWQCB / THRIFTY	QTY GW MONITORING REPORT	JP
	7/29/95	RWQCB / THRIFTY	QTY GW MON. RPT	JP

FILE FOLDER CLOSED.

SEE FOLDER # II


BY PERSON WHO REQUESTED THE ASSESSMENT
request made.

ADDITIONAL SITE ASSESSMENT


FORMER THRIFTY OIL STATION #069
18904 Roscoe Boulevard
Northridge, California

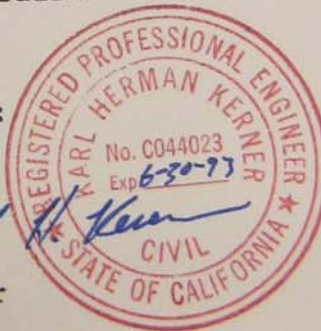
Prepared by:

Thrifty Oil Co.
10,000 Lakewood Boulevard
Downey, California


Bryan Van Wagner
Hydrogeologist
Environmental Affairs

Reviewed by:


Karl Kerner
Engineer
Environmental Affairs



1.0 INTRODUCTION

Thrifty Oil Company has performed an additional site assessment at former Thrifty Station #069 located at 18904 Roscoe Boulevard in Northridge, California (Figure 1). This site assessment was conducted in response to the California Regional Water Quality Control Board (CRWQCB) letter dated April 7, 1992 requesting further delineation of hydrocarbons in local shallow soil and groundwater beneath the site. Presented herein are the results of this additional site assessment, plus results of a pumping test conducted to evaluate local shallow aquifer characteristics.

1.1 Site Description

Former Thrifty Oil Station #069 is located at 18904 Roscoe Boulevard in Northridge, California, and is situated at the southwest corner of the intersection of Roscoe Boulevard and Wilbur Street. Former station #069 consisted of four (4) gasoline underground storage tanks (two 5,000 gallon, one 8,000 gallon, and one 12,000 gallon), two dispenser islands, and one used oil tank (Figure 1). The site is bounded on the west by light commercial facilities and on the north, south, and east by residential structures. Currently the site is vacant, however, the owner plans to develop the property for commercial use. The proposed building location is also shown in Figure 1.

1.2 Previous Investigations and Remediation

In August, 1987 the four underground storage tanks and the associated piping and dispenser islands were removed from the site by Moine Brothers Inc.. Soil samples obtained from beneath the tank zone by Robert Elbert and Associates, Inc. (RE&A) indicated the presence hydrocarbons in subsurface soil. These soils were removed from the tank excavation and spread out on-site to aerate. Both the Air Quality Management District and the Los Angeles County Fire Department were consulted prior to these remedial activities. Details of the tank removal, soil sample collection and analysis, and remedial activities were presented in the August 27, 1987 RE&A report, entitled "Tank Removal Report for Thrifty Oil Station #069".

In October, 1987 an initial investigation was conducted by RE&A consisting of the drilling and sampling of five (5) groundwater monitoring wells MW-1 through MW-5 (Figure 1). This investigation detected the presence of hydrocarbons in monitoring wells MW-3 and MW-5 and free floating hydrocarbons in wells MW-1 and MW-2.

As an initial interim remedial action, a recovery trench was installed along the down-gradient southern and eastern property boundaries. Free hydrocarbon was removed from the recovery trench during the period from October to December 1987. Details of these investigative and remedial activities were presented in the RE&A report entitled, "Site Investigation Report for Thrifty Oil Company Station #069", dated December 2, 1987.

1.3 Scope of Work

The scope of work conducted as part of this additional site assessment consisted of the following activities:

- o Surficial soil sampling;
- o Drilled, logged and sampled six (6) soil borings;
- o Installed six (6) additional groundwater monitoring wells;
- o Developed seven (7) and sampled nine (9) groundwater monitoring wells;
- o Analyzed twenty-four (24) soil samples and nine (9) groundwater samples for total petroleum hydrocarbons and selected volatile organics by EPA methods 8015 and 8020, respectively.
- o Performed aquifer characterization.

2.0 GEOLOGY AND HYDROGEOLOGY

Former Thrifty Station #069 overlies the San Fernando subarea of the Upper Los Angeles River groundwater basin. The water-bearing sediments consist of Quaternary age alluvium and the Saugus Formation. The alluvium is generally comprised of poorly sorted, uncemented alluvial fan and fluvial deposits.

The San Fernando Hydrogeologic subunit is divided into two sections, as determined by the source rock for the alluvial sediments. Former Station #069 is located in the western section, where the source rocks are comprised of sedimentary formations. These rocks produce higher percentages of clays and silts, and have created confined groundwater conditions within the Saugus Formation. Since the alluvium in this western section of the subunit produce low flow conditions, this aquifer is not used for domestic water supply (RE&A, 1987).

3.0 FIELD ACTIVITIES

3.1 Surficial Soil Sampling

On May 28, 1992 nine (9) surficial soil samples were collected from locations throughout the site from depths of approximately 1 foot below ground surface in order to confirm the complete aeration of the UST tank excavation material (Figure 2). These soil samples were collected using a drive sampler equipped with a single 2-inch diameter brass sample sleeve. The sampler was driven directly into the soil to be collected. Upon removal from the drive sampler, the brass sleeve containing the sample was labeled, sealed with teflon tape and plastic end caps, and placed into a chilled ice chest for transfer to a California certified laboratory for analysis. These

FILE REVIEW
PERSON WHO RECEIVES THE FILE
Request made: 01-20-77

samples were analyzed for select volatile organic compounds by EPA method 8020 and total petroleum hydrocarbons by EPA method 8015.

3.2 Soil Boring and Sampling

On May 28, 1992 six (6) soil borings (MW-6, MW-7, MW-8, MW-9, MW-10, and MW-11) were drilled at former Thrifty Oil Station #069 to further assess the presence of hydrocarbons in subsurface soil. The approximate locations of these borings are illustrated in **Figure 2**. The borings were drilled utilizing a hollow stem auger drilling rig to a maximum depth of thirty (30) feet below ground surface. Soil samples were obtained at 5-foot intervals utilizing protocol described in **Appendix A**. Soil samples and drill cuttings were described in accordance with the Unified Soil Classification System (USCS) by a geologist on field boring logs (copies are contained in **Appendix B**). Select soil samples were delivered in a chilled state to a California certified analytical laboratory and analyzed for total petroleum hydrocarbons and select volatile organic compounds by EPA methods 8015 and 8020, respectively.

3.3 Monitoring Well Installation

On May 28, 1992 groundwater monitoring wells were installed in borings MW-6, MW-7, MW-8, MW-9, MW-10, and MW-11 to evaluate the extent of hydrocarbons in local shallow groundwater. These wells were constructed inside the annulus of the hollow stem auger. Each monitoring well is constructed of 4-inch diameter PVC and is screened from a depth of 5 to 30 feet below ground surface (bgs). The annulus of each well was filled with Monterey sand #3 (3 to 30 feet bgs) and bentonite (surface to 3 feet bgs). Off-site monitoring wells MW-9, MW-10, and MW-11 were completed at the surface with a flush mounted traffic rated vault. Well construction details are provided in **Table 1**.

3.4 Monitoring Well Development and Sampling

On May 28 monitoring wells MW-3, MW-6, MW-7, MW-8, MW-9, MW-10, and MW-11 were developed by surge and pumping to remove sediment from the well and gravel pack. On June 12, groundwater samples were obtained from all on-site and off-site monitoring wells by Earth Management Co. of Santa Fe Springs, California utilizing the methods described in **Appendix C**. These samples were delivered in a chilled state following strict chain-of-custody procedures to a California certified laboratory where they were analyzed for volatile organic hydrocarbons (benzene, toluene, xylene, and ethylbenzene) by EPA method 602 and total petroleum hydrocarbons (TPH) by EPA method 8015 modified for gasoline.

3.5 Aquifer Characterization

Depth to groundwater and free hydrocarbon (if present) were measured in each monitoring well prior to the initiation of test activities and are presented as **Table 1**. An aquifer test was conducted on June 25, 1992 to evaluate distance drawdown and time

drawdown relationships in order to estimate the hydraulic conductivity and a potential remediation system capture zone for the shallow aquifer. The test consisted of the continuous extraction of water from monitoring well MW-6 and monitoring the variations in water levels in wells MW-1, MW-2, MW-6, MW-9, and MW-11. Results of these activities are provided in subsequent sections.

4.0 RESULTS

4.1 Soil Sampling

Shallow subsurface geologic conditions beneath the site have been explored by the drilling of eleven (11) soil borings to depths ranging from approximately 30 to 35 feet below ground surface. In general, soils encountered during drilling activities consisted of unconsolidated laterally discontinuous alluvial deposits composed of clay, silty clay, sandy clay, and clayey silt.

Three soil samples from each of the six (6) additional soil borings and nine (9) surficial soil samples were submitted to Mobile Labs Inc. of Bakersfield, California for analysis. Analytical results of these samples are summarized in **Table 2**, and a copy of the analytical laboratory report is contained in **Appendix D**.

Concentrations of volatile organic hydrocarbons (BTXE) and total petroleum hydrocarbons (TPH) were reported below laboratory detection limits in all surficial soil samples analyzed. TPH was detected in soil samples obtained from each boring with a maximum concentration of 2,500 mg/kg detected in boring MW-9. Benzene was detected in soil samples obtained from borings MW-6 and MW-7 at concentrations of 4.4 and 0.3 mg/kg respectively.

4.2 Groundwater Sampling

Groundwater samples obtained from monitoring wells MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, and MW-11 were submitted to American Analytics of Canoga Park, California for analysis. Analytical results of these samples are presented in **Table 3**, and a copy of the analytical report is contained in **Appendix D**.

In general, benzene was detected in monitoring wells MW-1, MW-5, MW-9 and MW-11 with a maximum concentration of 1,600 micrograms per liter (ug/l) reported in well MW-9. Total petroleum hydrocarbons (TPH) were reported in monitoring wells MW-7, MW-9, and MW-11 at concentrations ranging from 1.0 to 5.8 mg/l. Hydrocarbon concentrations are plotted as **Figure 4**.

4.3 Aquifer Characteristics

Free hydrocarbon and water level measurements obtained on June 25, 1992 are provided as **Table 1**. In general, groundwater is present under water table conditions beneath the site at depths ranging from 12 to 16 feet below ground surface. The apparent general direction of groundwater flow is toward the southeast with a

hydraulic gradient of about 0.004 ft/ft (Figure 3). Free hydrocarbon is present in monitoring wells MW-1 and MW-2 with a maximum thickness of 0.2 feet as measured in well MW-2 (Figure 4).

An aquifer pumping test was conducted on June 25, 1992 and consisted of the continuous withdrawal of groundwater from well MW-6. Groundwater was extracted at a rate of approximately 1 gallon per minute (gpm) for the first hour and increased to 2 gpm for the remainder of the test. Groundwater elevation drops were observed in all wells during the pumping activities with recorded drawdowns ranging from 4.10 and 0.02 feet below static water levels in wells MW-6 and MW-7, respectively. Drawdown vs time was plotted on a logarithmic scale and analyzed using the Theis curve matching method. The associated plots and calculations are provided as Appendix E. Shallow groundwater beneath the site responded as leaky confined or unconfined anisotropic conditions. Hydraulic conductivities range from 1.04 to 0.48 gallons per day per square foot (gpd/sqft) in the northwest/southeast direction and 94.5 gpd/sqft in the northeast/southwest direction. This apparent significant difference in calculated hydraulic conductivities may in part be associated with the aquifers response to the former backfilled recovery trench.

Groundwater capture zones for future remedial activities were calculated using the following relationships:

$$\text{Width} = Qn^2/2Kbi$$

$$\text{Stagnation} = Qn^2/2\pi Kbi$$

where Q is the pumping rate (0.25 gpm), n^2 is the effective porosity (assumed to be 10%), K is the hydraulic conductivity (1.26 gpd/sqft), b is the aquifer thickness (assumed to be the static head in the pumping well), and i is the hydraulic gradient (0.004). These values were adjusted assuming recovery from soils containing the lower hydraulic conductivity and the pumping rate was modeled to achieve a maximum sustainable well flow. Based on these relationships and assumptions the width of the pumping capture zone is 210 feet and the down-gradient stagnation point is 66 feet.

5.0 CONCLUSIONS

Based on review of previous work conducted at this site, observations made during this investigation and analytical laboratory results, the following conclusions are offered.

- o Analytical results on the surficial soil samples obtained during this investigation revealed hydrocarbon concentrations below detection limits. Therefore, soil removed from the tank excavation during tank removal activities and spread on-site to aerate have been satisfactory remediated,

- PERSON WHO RECEIVED: _____
Invest made: 07
- o Groundwater occurs beneath the site under anisotropic unconfined or semi-confined conditions at a depth of approximately 12 feet below ground surface,
 - o Hydraulic conductivities across the site range from 0.57 to 94.5 gpd/sqft, and the anticipated capture zone for a potential remediation system is 210 feet.
 - o Free hydrocarbon is present in monitoring wells MW-1 and MW-2,
 - o Dissolved hydrocarbons have been detected in apparent up-gradient monitoring well MW-7, on-site wells MW-5, and down-gradient off-site wells MW-9 and MW-11,
 - o The source of dissolved hydrocarbons in monitoring well MW-11 is unclear since up-gradient well MW-6 has hydrocarbon concentrations below laboratory detection limits. A possible source of soil and groundwater contamination in this well is the sewer line which is located adjacent monitoring wells MW-9 and MW-11 (Figure 4).

6.0 RECOMMENDATIONS

Thrifty Oil Co. will initiate a quarterly groundwater monitoring program at this site. This program will consist of obtaining fluid level measurements in all monitoring wells, free product removal from wells MW-1 and MW-2 (if present), and groundwater sampling and laboratory analysis. Thrifty Oil Co. will analyze this data when available to evaluate the necessity for additional off-site wells.

Thrifty Oil Co. will also develop a corrective action plan to address hydrocarbons in local shallow groundwater beneath the site. This workplan will be submitted to the CRWQCB when available.

7.0 REFERENCES

Robert Elbert and Associates, Inc., August 27, 1987, Tank Removal Report, Prepared for Thrifty Oil Co. Station #069.

Robert Elbert and Associates, Inc., December 2, 1987, Site Investigation Report, Prepared for Thrifty Oil Co. Station #069.

1.0 INTRODUCTION
1.1 Site Investigation
1.2 Site History
1.3 Scope of Investigation
1.4 Scope

Site Investigation Report
for
THRIFTY OIL COMPANY
Station No. 069
18904 Roscoe Boulevard
Northridge, CA

2.0 GEOLOGY
2.1 Region
2.2 Geology

prepared for
THRIFTY OIL COMPANY
10000 Lakewood Boulevard
Downey, CA 90240

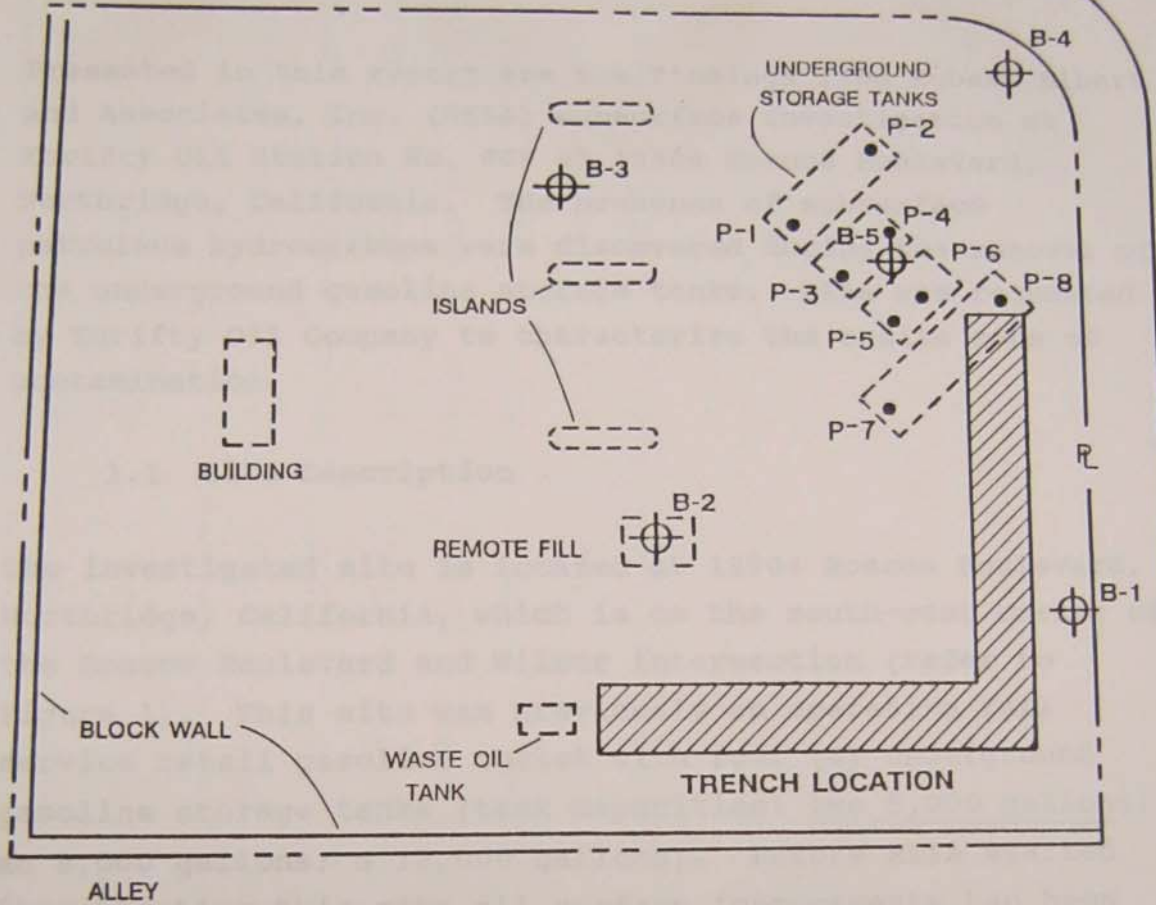
3.0 METHODS
3.1 Methods
3.2 Methods

prepared by
ROBERT ELBERT AND ASSOCIATES, INC.
P.O. Box 40180
Santa Barbara, CA 93140-0180
(805)963-1808

4.0 LIMITATIONS OF INVESTIGATION
4.1 Limitations
4.2 Limitations


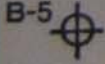
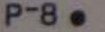
December 2, 1987

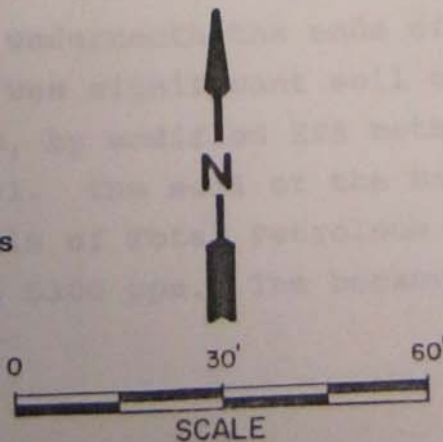
ROSCOE BOULEVARD



SITE PLAN
THRIFTY OIL STATION NO. 069
LOS ANGELES, CALIFORNIA
 Prepared for
THRIFTY OIL COMPANY
DOWNEY, CALIFORNIA

EXPLANATION

-  Location of Removed Above and Below Ground Structures
-  Monitoring Well
-  Pit Location



NOV 1987
 RE & A
 Santa Barbara
 California

Figure 2

1.0 INTRODUCTION

Presented in this report are the findings from Robert Elbert and Associates, Inc. (RE&A) subsurface investigation at Thrifty Oil Station No. 069 at 18904 Roscoe Boulevard, Northridge, California. The presence of subsurface petroleum hydrocarbons were discovered during the removal of the underground gasoline storage tanks. RE&A was requested by Thrifty Oil Company to characterize the onsite zone of contamination.

1.1 Site Description

The investigated site is located at 18904 Roscoe Boulevard, Northridge, California, which is on the south-west corner of the Roscoe Boulevard and Wilbur intersection (refer to Figure 1). This site was previously an operating full service retail gasoline outlet with four (4) underground gasoline storage tanks (tank capacities: two 5,000 gallons; an 8,000 gallons; a 12,000 gallons). Before RE&A started investigating this site all surface improvements had been cleared and the gasoline underground storage tanks had been removed. However, during the course of this investigation a previously unknown 280 gallon waste oil tank was discovered.

1.2 Site History

On Friday, August 14, 1987, the Moine Brothers, Inc. removed four (4) fuel tanks. The same day soil samples were collected by RE&A, underneath the ends of each tank, to determine if there was significant soil contamination. Laboratory analysis, by modified EPA method 8240, are tabulated in Table 1. The soil at the bottom of the excavation had levels of Total Petroleum Hydrocarbons ranging from 850 to 5300 ppm. The benzene, toluene, and

TABLE 1
Laboratory Analysis of Soils from Tank Area (ppm)

PIT LOCATION	P1	P2	P3	P4	P5	P6	P7	P8	P8
SAMPLE DEPTH (bgs)	15'	15'	15'	15'	15'	15'	15'	15'	15'***
BENZENE	4.0	23.0	20.0	24.0	27.0	10.0	71.0	20.0	17.0
TOLUENE	25.0	63.0	94.0	8.0	130.0	110.0	160.0	66.0	82.0
ETHYLBENZENE	17.0	42.0	40.0	40.0	51.0	61.0	130.0	27.0	20.0
XYLENES	140.0	370.0	480.0	120.0	580.0	630.0	610.0	220.0	220.0
EDB	ND*	ND	ND	ND	ND	ND	ND	ND	ND
NAPHTHALENE	3.0	ND	5.0	ND	11.0	11.0	13.0	7.0	0.5
TPPH	1100.0	2400.0	3800.0	2300.0	4800.0	5300.0	3500.0	1500.0	850.0

* ND - Not Detected
** Duplicate

xylenes also were indicated to be at significant levels. The August 27, 1987, Robert Elbert and Associates, Inc. report contains further details about that phase of work. This contaminated soil was removed from the tank excavation and spread out in a thin, 1 to 2 feet, layer onsite to aerate. Both the Air Quality Management District and the Los Angeles County Fire Department were consulted prior to remediating the soils by passive aeration. No confirmatory soil samples have been collected at this time.

1.3 Scope of Investigation

RE&A's investigation of the subsurface hydrocarbon contamination consisted of the following steps.

- o Advancing five borings to depths of approximately 33 feet in the general area of the tank cluster (refer to Figure 2);
- o Soil sampling at 5 foot intervals from grade to total depth in each of the borings;
- o Field analysis of all soil samples with an HNU Photoionization detector;
- o Permitting and constructing groundwater monitoring wells in each of the borings;
- o Laboratory analysis of selected soil samples from each boring for Fuel Fingerprint (BTX, EDB, EDC, and TPH) by modified EPA method 8240;
- o Development and sampling of three of the five groundwater monitoring wells;

- o Laboratory analysis of groundwater in each sampled well for Fuel Fingerprint (BTX, EDB, EDC, TPH) by modified EPA method 624;
- o Monitoring groundwater and free product levels, if any, in the five wells;
- o Evaluation of field and laboratory data;

1.4 Scope of Remediation

In order to facilitate free product recovery as rapidly as possible, the following remediation activities were initiated:

- o Regular hand bailing of both monitoring wells 1 and 2 to remove free product as necessary;
- o Installation of two temporary trenches along two downgradient property boundaries to enhance drainage and free product recovery. Accumulated product is periodically removed by vacuum truck;
- o Preparation of this report which summarizes the investigation and remediation methods, findings and recommendations regarding site clean up.

2.0 GEOHYDROLOGY

2.1 Regional Geology

This site is situated within the Los Angeles Basin Physiographic Province in the northwestern San Fernando Valley, Los Angeles County, California. The Santa Monica Mountains are approximately 6 miles to the south and the

Santa Susana Mountains are approximately 6 miles to the north.

Underlying the site are Quaternary age "water-bearing" alluvial sediments composed of sand, gravel, silt, and clay. These deposits extend from the ground surface up to 6,000 feet below ground surface (bgs) in the valley. Nonwater-bearing Tertiary formations ranging down to 12,000 feet bgs underlie these alluvial deposits. Crystalline rock underlies the sedimentary formations.

2.2 Hydrogeology

Thrifty Oil Station No. 069 overlies the San Fernando subarea of the upper Los Angeles River groundwater basin. The water-bearing sediments consist of the Quaternary age alluvium and the Saugus Formation. This alluvium is generally comprised of poorly sorted, unconsolidated alluvial fan and fluvial deposits. The older Saugus has both continental and marine sediments of conglomerate, sand, silt and clay.

The San Fernando Hydrologic subunit is divided up into two sections, as determined by the source rock for the alluvial sediments. This site is located in the western section, where the source rocks are comprised of sedimentary formations. These rocks produces a much higher percentage of silts and clays, and has created a confined aquifer within the Saugus Formation. Small localized "perched water bodies" in the lenses of sand and gravel are confined by clay strata within the alluvial sediments. Since the alluvium in the western part of the sub-basin is such a poor aquifer it is not utilized very heavily for domestic water supply.

3.0 INVESTIGATIVE PROCEDURES

3.1 Drilling and Sampling

On October 6, 1987, Robert Elbert and Associates started drilling five borings to characterize the vertical and horizontal extent of contamination onsite. This work was completed on October 8, 1987. A detailed account of drilling methodology and sampling procedures is located in Appendix A. After reviewing the field logs (refer to Appendix B), two or three soil samples were chosen from each boring for laboratory analysis to delineate the contamination. Analytical results, by modified EPA method 8240, are listed in Table 2. The laboratory's analytical report is in Appendix C.

3.2 Groundwater Monitoring Well Construction

All five initial borings were completed as groundwater monitoring wells. The original boring was reamed out to a twelve inch diameter hole and completed with four inch PVC well casing. Schedule 40 casing with threaded flush joints and a screen slot size of .020 inches was used in all of the monitoring wells. The well logs in Appendix B illustrate the specifics of well completion. Due to the locked fence enclosing the site no security devices were used on the wells.

ENA 8710

TABLE 2
Laboratory Analysis of Soils from Borings (ppm)

	Benzene	Toluene	Ethylbenzene	Xylenes	EDC	EDB	TPPH
B-1							
10'*	14.0*	190.0	49.0	520.0	0.5	ND**	3900.0
16.5'	0.09	0.29	0.09	1.0	0.15	ND	4.9
B-2							
10'	0.1	0.2	0.2	1.9	ND	ND	20.0
16.5'	0.16	0.05	0.01	0.03	0.18	ND	0.73
B-3							
10'	0.58	0.13	2.3	3.0	ND	ND	50.0
16.5'	ND	0.029	ND	ND	ND	ND	0.29
25'	ND	0.003	ND	0.002	ND	ND	<0.1
B-4							
10'	ND	ND	0.6	4.3	ND	ND	54.0
16.5'	ND	0.09	ND	0.01	ND	ND	0.32
25'	0.003	0.080	ND	0.006	ND	ND	2.4
B-5							
15'	4.9	23.0	16.0	240.0	ND	ND	990.0
18'	0.004	0.016	0.005	0.052	0.20	ND	0.45

* Sample Depth in feet
** ND - Not Detected

TABLE 3
Monitoring Well Construction Data

WELL NUMBER	B-1	B-2	B-3	B-4	B-5
DATE CONSTRUCTED	11/07/87	11/07/87	11/06/87	11/08/87	11/08/87
DIAMETER (INCHES)	4.0	4.0	4.0	4.0	4.0
TOTAL CASING DEPTH	30.0	30.0	30.0	30.0	30.0
DEPTH OF SCREEN	10.0-30.0	10.0-30.0	10.0-30.0	10.0-30.0	10.0-30.0
DEPTH OF SAND PACK	8.5-33.0	8.5-33.0	8.5-33.0	8.5-33.0	8.5-33.0
DEPTH OF BENTONITE SEAL	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5	6.5-8.5
DEPTH OF CEMENT SEAL	0-6.5	0-6.5	0-6.5	0-6.5	0-6.5
RELATIVE REFERENCE ELEVATION	100.07	102.28	101.31	99.83	100.66

All measurements are in feet, unless otherwise indicated

3.3 Groundwater Sampling

On October 12, 1987, monitoring wells 3, 4, and 5 were developed by bailing approximately six casing volumes from each well. Due to the presence of free product, monitoring wells 1 and 2 were bailed, but not sampled. Effluent water was placed in 55 gallon DOT drums and left onsite for Thrifty Oil Company's disposal. Both monitoring wells 1 and 2 had accumulations of free product. Monitoring wells 3, 4, and 5 were sampled after development, Table 4 summarizes the

laboratory analysis of these groundwater samples. They indicate that a dissolved phase of gasoline has developed.

TABLE 4

Laboratory Analysis of Water Samples in ppm
October 10, 1987

	MW-3	MW-4	MW-5	MW-1	MW-2
BENZENE	0.44	0.26	0.38	Not sampled due	
TOLUENE	0.14	0.26	0.57	to free product	
XYLENES	1.5	0.9	2.2	in these wells.	
EHTHYLBENZENE	0.13	0.095	0.12		
1,2-DICHLOROETHANE	0.023	0.014	0.08		
ETHYLENE DIBROMIDE	ND*	ND	ND		
TOTAL PURGEABLE PETROLEUM HYDROCARBONS	5.3	2.9	6.7		

*ND = Not Detected

4.0 FINDINGS

4.1 Subsurface Soil Conditions

This investigation shows that the site is underlain by silty clay interbedded with lenses of clay down to 33 feet bgs. This silty clay appears to be fairly massive and homogeneous with no definition of stratigraphic layers. The sand and gravel identified in boring 5 are backfill materials used to bring the tank excavation up to grade. Only B-1, directly downgradient of the tanks and B-5, within the former tank area show significant soil contamination, at 10 feet and 15 feet respectively. Soils below the water table are

essentially clean as shown by boring 4. These results indicate that the water table is an effective barrier to downward (vertical) migration of contamination. The variable zone of soil contaminated just above the groundwater table appears to reflect the interaction of the fluctuating groundwater table level and the migrating free product.

4.2 Groundwater Conditions

The soils that underlie this site do not readily transport fluids due to the low permeability of the clays. However, a perched groundwater table was found at approximately 15 feet bgs (refer to cross section).

Analysis of the groundwater and free product levels indicate that the water table has a shallow gradient of .004 ft/ft to the south-west (refer to Figure 3). The presence of free product in MW-1 and MW-2 south of the former tank area confirms that the downgradient direction is south to southwest. Any well which has accumulated free product requires correction of the water table elevation due to the interaction of water table and free product. Table 5 shows the measurements taken on October 21, 1987 and the corresponding calculated values. Appendix D explains the theory and methodology utilized to correct the water table elevations for the presence of free product in the wells. In the last month and a half all the wells' water table elevations have risen by approximately half a foot as shown below.

DATE	ELEVATIONS				
	MW-1	MW-2	MW-3	MW-4	MW-5
October 21, 1987	85.73	85.88	86.16	86.18	86.06
December 1, 1987	86.32	86.47	86.68	86.71	86.59

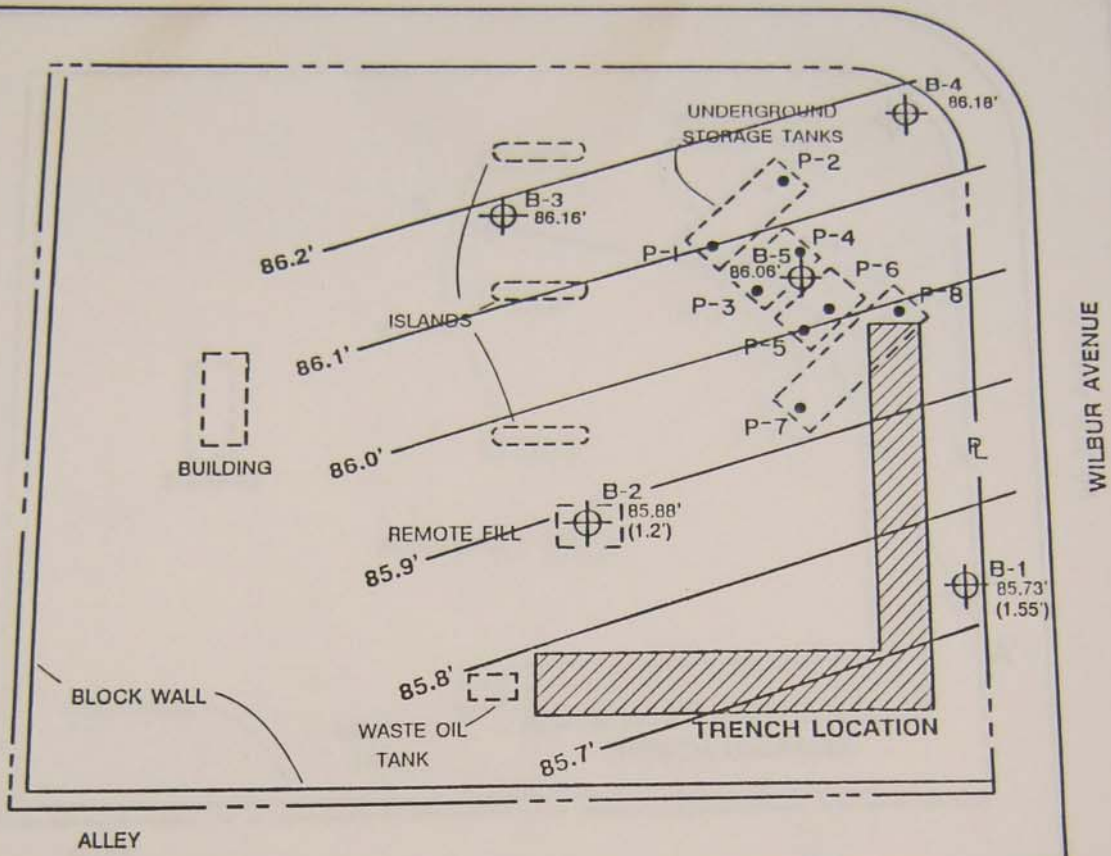
TABLE 5
Groundwater and Free Product Measurements in Feet
October 21, 1987

	B-1	B-2	B-3	B-4	B-5
DEPTH TO WATER TABLE FROM GROUND LEVEL	15.5	17.3	15.15	13.65	14.6
DEPTH TO FREE PRODUCT FROM GROUND LEVEL	13.95	16.1	-	-	-
THICKNESS OF FREE PRODUCT	1.55	1.2	-0-	-0-	TRACE
MEASURED ELEVATION TO WATER TABLE	84.57	84.98	86.16	86.18	86.06
CORRECTED ELEVATION OF WATER TABLE	85.73	85.88	86.16	86.18	86.06
RELATIVE ELEVATIONS OF GROUND LEVEL	100.07	102.28	101.31	99.83	100.66

TABLE 6
Corrected Groundwater Table Elevations




DATE	MONITORING WELL 1	MONITORING WELL 2
10/10/87	84.90	84.98
10/27/87	84.04	84.71
10/29/87	84.53	84.90
11/03/87	85.66	85.47
11/06/87	85.81	85.52
11/23/87	86.18	85.46
11/25/87	86.30	86.44
11/30/87	86.26	86.40

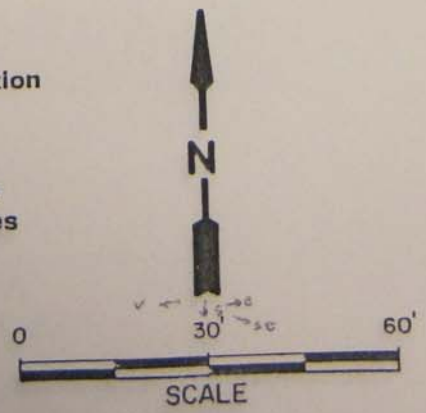
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CORRECTED WATER TABLE ELEVATIONS 10-21-87
THRIFTY OIL STATION NO. 069
LOS ANGELES, CALIFORNIA
 Prepared for
THRIFTY OIL COMPANY
DOWNEY, CALIFORNIA

EXPLANATION

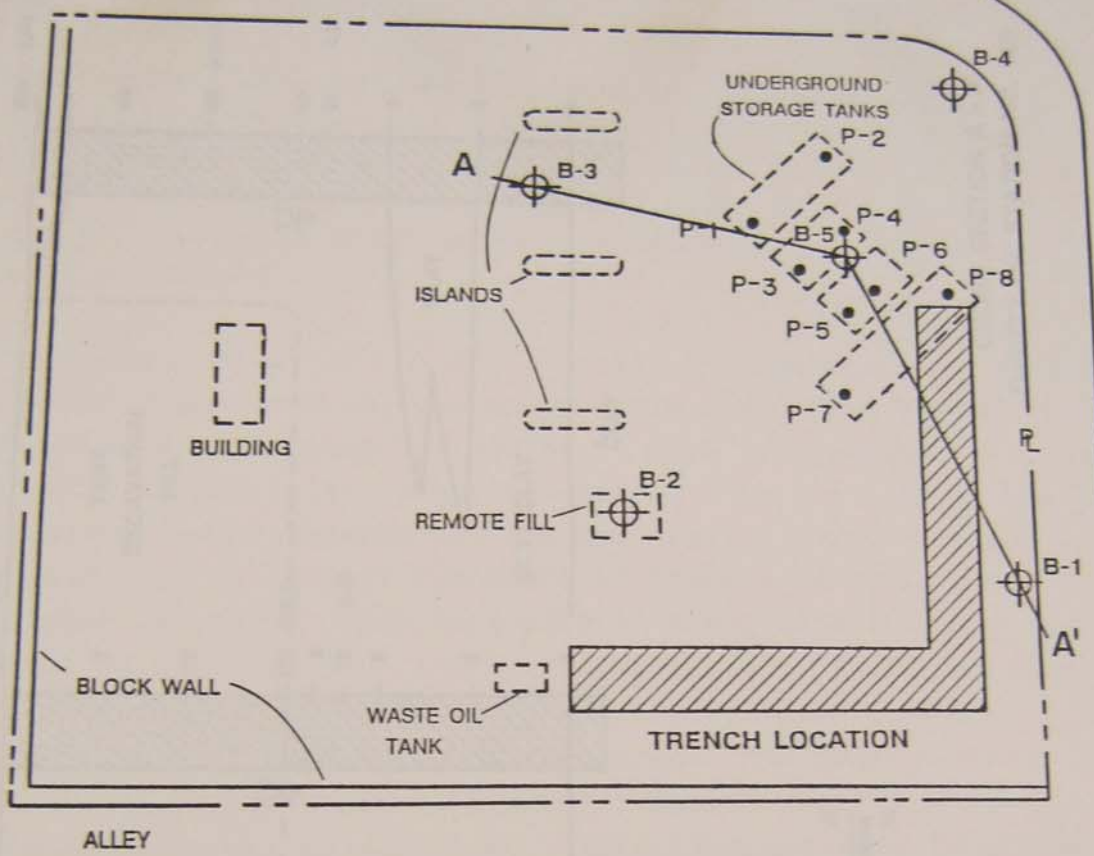
- 85.88' Corrected Water Table Elevation
- (1.55') Gasoline Thickness in Well
-  Location of Removed Above and Below Ground Structures
-  Monitoring Well
-  Pit Location



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
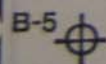
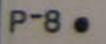
FIGURE 3

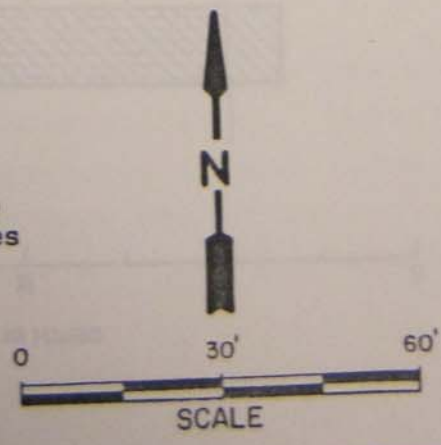
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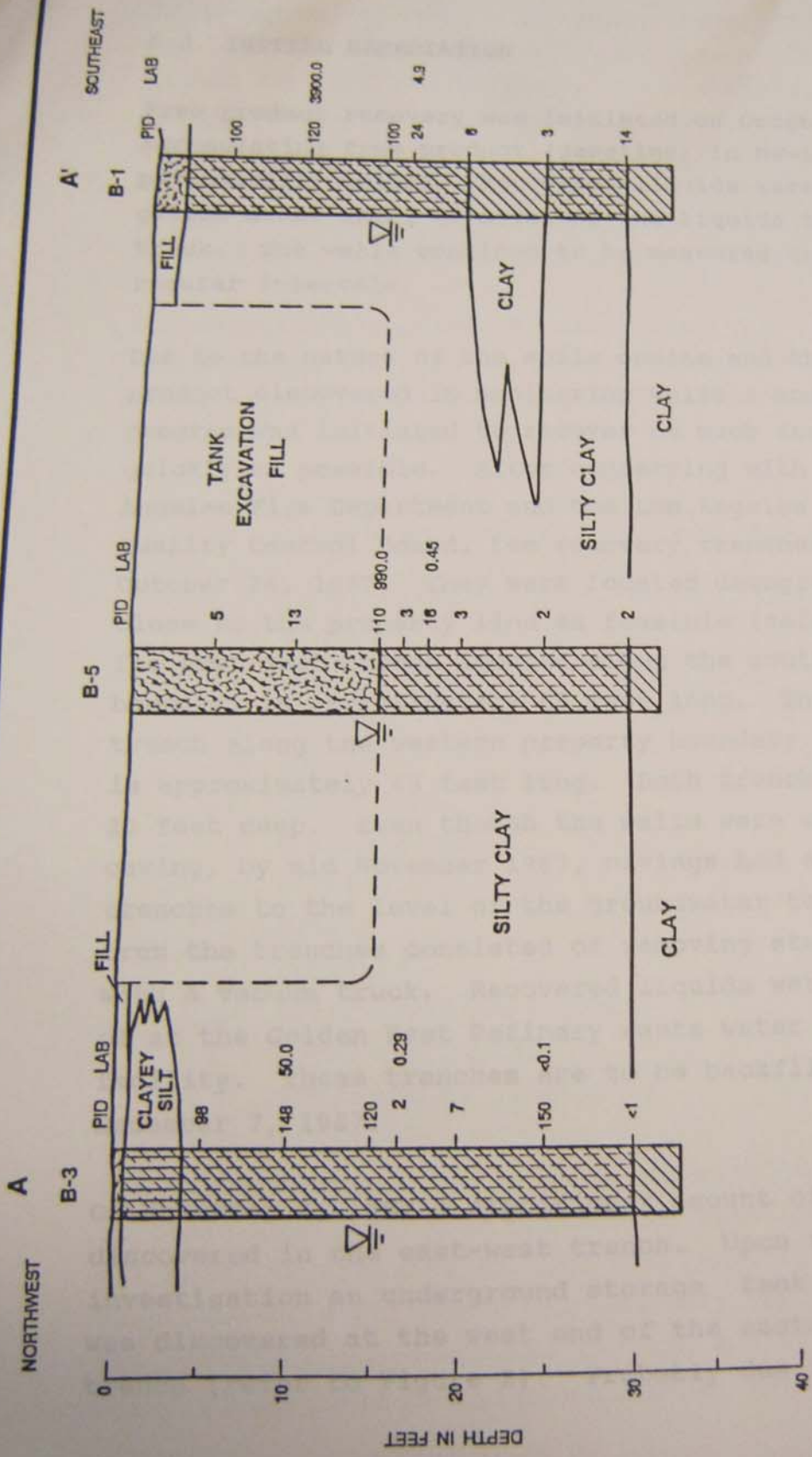
CROSS SECTION LOCATION
THRIFTY OIL STATION NO. 069
LOS ANGELES, CALIFORNIA
Prepared for
THRIFTY OIL COMPANY
DOWNEY, CALIFORNIA

EXPLANATION

-  Location of Removed Above and Below Ground Structures
-  Monitoring Well
-  Pit Location



NOV 1987
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California



CROSS SECTION A - A'
THRIFTY OIL STATION NO. 069

PID = HNU Photoionization Detector in ppm
 LAB = Laboratory analysis for Total Petroleum Hydrocarbons in ppm
 NOTE: Lithologies are generalized - see Well Log sheets for more details

5.0 INITIAL REMEDIATION

Free product recovery was initiated on October 8, 1987. Accumulating free product (gasoline) in MW-1 and MW-2 was periodically bailed. Recovered liquids were placed in 55 gallon drums until transfer of the liquids to the vacuum truck. The wells continue to be measured and bailed at regular intervals.

Due to the nature of the soils onsite and the amount of free product discovered in monitoring wells 1 and 2, a trenching program was initiated to recover as much free product as quickly as possible. After conferring with the City of Los Angeles Fire Department and the Los Angeles Regional Water Quality Control Board, two recovery trenches were dug on October 26, 1987. They were located downgradient and as close to the property line as feasible (refer to Figure 2). The east-west trench located along the southern property boundary is approximately 65 feet long. The north-south trench along the western property boundary (Wilbur Avenue) is approximately 45 feet long. Both trenches were initially 20 feet deep. Even though the walls were sloped to minimize caving, by mid November 1987, cavings had almost filled the trenches to the level of the groundwater table. Recovery from the trenches consisted of removing standing liquids with a vacuum truck. Recovered liquids were then disposed of at the Golden West Refinery waste water treatment facility. These trenches are to be backfilled the week of December 7, 1987.

On November 2, 1987 a significant amount of waste oil was discovered in the east-west trench. Upon further investigation an underground storage tank full of waste oil was discovered at the west end of the east-west trending trench (refer to Figure 2). Probably due to the recent

rains infiltrating into the tank, waste oil overflowed into the ground and into the east-west trench. Most of this oil coated the side of the trench, only a small amount reached the groundwater. On November, 3, 1987, RE&A arranged for a vacuum truck to remove all free product from the trenches. All oil contaminated soil was removed from the trench, placed in a bermed area (lined with visqueen), and then covered with visqueen for disposal by Thrifty Oil Company.

The analytical results characterizing the waste oil contaminated soil are included in Appendix C. The table below briefly summarizes the highest levels found in the soil.

TABLE 7
Laboratory Analysis of Waste Oil Samples

	Constituent	Approximate Level ppb
1	BENZENE	17.0
2	ETHYLBENZENE	2,400.0
3	TOLUENE	2,600.0
4	XYLENES	31,000.0
5	TOTAL LEAD	270.0
6	PHENANTHRENE	200.0
7	NAPHTHALENE	3.6
8	PYRENE	3.8
9	FLUORENE	1.8
10	BIS(2-ETHYLHEXAL)ETHER	4.4
11	TOTAL PETROLEUM HYDROCARBONS (Estimate)	>600,000.0

Bis(2-ethylhexal)ether is an omnipresent element of plastic, it could have come from containers used to hold the waste oil prior to draining it into the tank. However, constituents 6 through 9 are commonly found in heavy oils. The petroleum hydrocarbons; C-3 and C-4 Alkylbenzenes, methylindane, and methylphenanthenes; detected and listed on

the supplementary report indicate that stoddard solvents were emptied into the tank.

The amounts of free product accumulating in these wells has decreased substantially during the trench-recovery effort, especially in MW-1 nearest the trench. This well which initially had 1.5 feet of free product now has less than .03 feet. MW-2 initially had 1.2 feet but now measures approximately .5 feet.

Table 8 is a chronology of free product recovery. Over 60 gallons of product has been recovered thus far. The sequence of numbers listed on October 21 indicate the amounts of "recharged" free product. The first number is the initial amount of free product bailed from the wells. The following numbers indicate the amounts of free product "recharged" into the wells after 1 and 4 hours with no further bailing. This process was done again on October 23 with only one 4 hour recharge period measured.

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Active Facilities Only

Check all that apply:

Inventory Summary

Review File

Business Name/ DBA:

Storage Address:

Unit/Ste.:

City:

Zip:

Reason for Request:

FOR OFFICE USE ONLY

- NO INFORMATION ON FILE
 HARD FILE DESTROYED
 INFORMATION AVAILABLE

Fee Schedule:

*Inventory Summary** x \$11.00

Facility I.D. No.:

Request Review File Copies:

Request No.:

*Initial Fee** x \$ 1.10

Processed Date:

of pgs. x \$0.10 = \$_____

APPT. TO REVIEW FILE:

* *Per Fac. I.D.*

Processor Signature: [REDACTED]

TOTAL: \$

Allow 10 working days for processing:



Los Angeles City Fire Department

Telephone (213) 978-3691 Fax (213) 978-3615 Email lafdrfi@lacity.org
200 N. Main St., 17th Fl., Los Angeles, CA 90012

Request for Information Hazardous Materials Records

***COMPLETE ONE FORM FOR EACH ADDRESS**

Request Date:	Email:
Requester's Name:	Fax#:
Company/ Agency:	PH.#:
Address:	Unit/Ste.:
City:	State: Zip:

Information is requested for

Active Facilities Only

Check all that apply:

Inventory Summary

Review File

Business Name/ DBA:

Storage Address:

Unit/Ste.:

City:

Zip:

Reason for Request:

FOR OFFICE USE ONLY

- NO INFORMATION ON FILE
 HARD FILE DESTROYED
 INFORMATION AVAILABLE

Fee Schedule:

*Inventory Summary** x \$11.00

Facility I.D. No.:

Request Review File Copies:

Request No.:

*Initial Fee** x \$ 1.10

Processed Date:

of pgs. x \$0.10 = \$_____

APPT. TO REVIEW FILE:

* *Per Fac. I.D.*

Processor Signature:

TOTAL: \$

Allow 10 working days for processing:



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***COMPLETE ONE FORM FOR EACH ADDRESS**

Request Date:	Email:
Requester's Name:	Fax#:
Company/ Agency:	PH.#:
Address:	Unit/Ste.:
City:	State: Zip:

Information is requested for

Active Facilities Only

Check all that apply:

Inventory Summary

Review File

Business Name/ DBA:

Storage Address:

Unit/Ste.:

City:

Zip:

Reason for Request:

FOR OFFICE USE ONLY

- NO INFORMATION ON FILE
 HARD FILE DESTROYED
 INFORMATION AVAILABLE

Fee Schedule:

*Inventory Summary** x \$11.00

Facility I.D. No.:

Request Review File Copies:

Request No.:

*Initial Fee** x \$ 1.10

Processed Date:

of pgs. x \$0.10 = \$_____

APPT. TO REVIEW FILE:

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Request for Information Hazardous Materials Records

***COMPLETE ONE FORM FOR EACH ADDRESS**

Request Date:	Email:
Requester's Name:	Fax#:
Company/ Agency:	PH.#:
Address:	Unit/Ste.:
City:	State: Zip:

Information is requested for

Active Facilities Only

Check all that apply:

Inventory Summary

Review File

Business Name/ DBA:

Storage Address:

Unit/Ste.:

City:

Zip:

Reason for Request:

FOR OFFICE USE ONLY

- NO INFORMATION ON FILE
 HARD FILE DESTROYED
 INFORMATION AVAILABLE

Fee Schedule:

*Inventory Summary** x \$11.00

Facility I.D. No.:

Request Review File Copies:

Request No.:

*Initial Fee** x \$ 1.10

Processed Date:

of pgs. x \$0.10 = \$_____

APPT. TO REVIEW FILE:

* *Per Fac. I.D.*

Processor Signature:

TOTAL: \$

Allow 10 working days for processing:

BUSINESS PLAN REVIEW REPORT✓ **BUSINESS ACTIVITY – PAGE 3**

- FACILITY IDENTIFICATION – VERIFY NUMBER ON TOP OF ALL PAGES
- ACTIVITIES DECLARATION – VERIFY COMPLETENESS

✓ **BUSINESS OWNER/OPERATOR IDENTIFICATION – PAGE 5**

- SECTION I-V: VERIFY COMPLETENESS AND REFER CHANGES TO DATA MANAGEMENT
- VERIFY SIGNATURE AND DATE ARE PRESENT

✓ **CONSOLIDATED CONTINGENCY PLAN/ COVER PAGE – PAGE 7**

- PLAN CERTIFICATION – VERIFY SIGNATURE AND DATE ARE PRESENT

✓ **SECTION I: BUSINESS PLAN/ CONTINGENCY PLAN – PAGE 9-13**

- EMERGENCY CONTACT - VERIFY COMPLETENESS AND REFER CHANGES TO DATA MANAGEMENT
- EMERGENCY RESPONSE PLANS AND PROCEDURES
 - (A) EMERGENCY NOTIFICATION PAGE – 9: 911 INDICATED
 - (B) EMERGENCY MEDICAL FACILITY PAGE 9: APPROPRIATE LOCATION
 - (C) PRIVATE EMERGENCY RESPONSE PAGE 10: VERIFY APPLICABILITY
 - (D) ARRANGEMENTS WITH EMERGENCY RESPONDERS PAGE 10: VERIFY APPLICABILITY
 - (E) EVACUATION PLANS PAGE 10: VERIFY ALARM, VERBAL WARNING, MAP DIRECTIONS, AND RESPONSIBLE PERSON
 - (F) EARTHQUAKE VULNERABILITY PAGE 10: VERIFY COMPLETENESS
 - (G) EMERGENCY PROCEDURES PAGE 11:
 - PREVENT – INSPECTION/ MONITORING AND CONTAINMENT
 - MITIGATION – SMALL & LARGE LEAKS/SPILLS
 - ABATEMENT – SMALL & LARGE LEAKS/SPILLS
- EMERGENCY EQUIPMENT PAGE 12: VERIFY COMPLETENESS
- EMPLOYEE TRAINING LOG PAGE 13: VERIFY COMPLETENESS
- HAZARDOUS WASTE GENERATOR TRAINING LOG PAGE 13: VERIFY COMPLETENESS

NA **SECTION II: UST EMERGENCY RESPONSE & MONITORING PLAN PAGE 15-16:**

- MONITORING PLAN & PROCEDURES PAGE 15: VERIFY COMPLETENESS
- EMERGENCY RESPONSE PLAN PAGE 16: VERIFY COMPLETENESS OF NAME, ADDRESS, PHONE NUMBERS OF RESPONSIBLE PARTY
- DISPOSAL, LOCATION OF EQUIPMENT, AND MAINTENANCE SCHEDULE PAGE 16: VERIFY COMPLETENESS
- TANK INFORMATION FOR EACH TANK ON THE PROPERTY
- FORM – A/B or 1/2 "D"
- IDENTIFICATION OF DESIGNATED OPERATOR

✓ **SITE MAP PAGE 17:**

- ADDRESS, ORIENTATION, HAZ-MAT STORAGE LOCATIONS, TANK LOCATIONS, MONITORING LOCATION,

✓ **HAZARDOUS MATERIAL INVENTORY/ CHEMICAL DESCRIPTION PAGE 21:**

- VERIFY COMPLETENESS (add, delete, or revised inventory), "SME" TO VERIFY CHEMICAL DATA.

NA **REGULATED SUBSTANCE REGISTRATION PAGE 23:**

- VERIFY COMPLETENESS

✓ **HAZARDOUS GENERATOR – PAGE 29:**

- TYPE OF GENERATOR PAGE 29: VERIFY COMPLETENESS
- WASTE STREAM IDENTIFICATION PAGE 29: VERIFY COMPLETENESS
- VERIFY SIGNATURE AND DATE ARE PRESENT

Reviewed by: ENV *[Signature]*

Data Entry: _____

Chemical review: *[Signature]*Date: 4-2-12

Part 1 - Citizen
 Part 2 - Fire Department
 Part 3 - Fire Department

**FIRE DEPARTMENT
 FIRE/LIFE SAFETY VIOLATION**

INSP#, 6-DIG DATE, LAST 5-FAC ID.

OCCUPANCY	DISTRICT	BLOCK NO.	MAP BOOK	PAGE	PARCEL	DATE:
TO:			FIRM OR D.B.A.			
ADDRESS:		(STREET)	(CITY)	(STATE)	ZIP CODE	PHONE
ADDRESS OF VIOLATION:		(STREET)	(CITY)	(STATE)	ZIP CODE	FACILITY ID:

Under the authority of the State of California and the Los Angeles Fire Department CUPA, a review of your "Business Plan has been conducted. The following violations have been identified:

COMPLY WITH THE FOLLOWING REQUIREMENTS IN ACCORDANCE WITH CCR 2729 - 2732:

- 1) BUSINESS ACTIVITY
 1. EPA ID NUMBER SHALL BE CLEARLY IDENTIFIED (HW, RECYCLER, HW TREATMENT)
 2. ACTIVITIES DECLARATION SHALL BE COMPLETE AND ACCURATE
- 2) BUSINESS OWNER/OPERATOR IDENTIFICATION
 1. THIS PAGE MUST CONTAIN A SIGNATURE FROM THE RESPONSIBLE PARTY
 2. THIS PAGE SHALL CONTAIN THE DUN & BRAD STREET NUMBER
 3. THIS PAGE SHALL CONTAIN THE "SIC" NUMBER
 4. THIS PAGE SHALL CONTAIN THE TAX ID NUMBER
- 3) CONSOLIDATED CONTINGENCY PLAN/ COVER PAGE

A CERTIFICATION SIGNATURE AND DATE SHALL BE PRESENT
 THE PRE-ESTABLISHED STORAGE LOCATION OF THE BUSINESS PLAN SHALL BE INDICATED
- 4) SECTION I: BUSINESS PLAN/ CONTINGENCY PLAN PAGE
 1. EMERGENCY CONTACT (ALL INFORMATION SHALL BE COMPLETE AND ACCURATE)
 2. EMERGENCY RESPONSE PLANS AND PROCEDURES SHALL BE CLEARLY INDICATED
 - a) (A) EMERGENCY NOTIFICATION SHALL INCLUDE NAMES, NUMBERS, AND FIRE DEPARTMENT CONTACT PAGE 9
 - b) (B) EMERGENCY MEDICAL FACILITY SHALL LIST THE MOST ACCESSIBLE FACILITY PAGE 9
 - c) (C) PRIVATE EMERGENCY RESPONSE SHALL INDICATE AGENCY NAME, NUMBER AND PROCEDURES TO ACQUIRE ASSISTANCE PAGE 10
 - d) (D) ARRANGEMENTS WITH EMERGENCY RESPONDERS SHALL IDENTIFY THE SCOPE OF SERVICES PROVIDED PAGE 10
 - e) (E) EVACUATION PLANS SHALL BE CLEARLY IDENTIFIED PAGE 10
 - f) (F) EARTHQUAKE VULNERABILITY SHALL IDENTIFY ALL AREAS OF VULNERABILITY DURING AN EARTHQUAKE PAGE 10
 - g) (G) EMERGENCY PROCEDURES PAGE 11
 - I. PREVENT - INSPECTION/ MONITORING AND CONTAINMENT PRACTICES SHALL BE LISTED
 - II. MITIGATION - SMALL & LARGE LEAKS/SPILLS INITIAL ACTION SHALL BE LISTED
 - III. ABATEMENT - SMALL & LARGE LEAKS/SPILLS INITIAL ACTIONS SHALL BE LISTED
 3. EMERGENCY EQUIPMENT THE EQUIPMENT LIST SHALL MATCH THE PROCESSES LISTED FOR MITIGATION AND ABATEMENT PAGE 12
 4. EMPLOYEE TRAINING LOG THE LOG SHALL CONSIST OF THE EMPLOYEE NAMES TRAINING SUBJECTS AND DATES OF TRAINING PAGE 13
 5. HAZARDOUS WASTE GENERATOR TRAINING LOG SHALL CONSIST OF POSITIONS, TITLES TRAINING SUBJECTS, REQUIREMENTS, LAST 3-YEARS OF TRAINING CONDUCTED PAGE 13
- 5) SECTION II: UST EMERGENCY RESPONSE & MONITORING PLAN PAGE
 1. MONITORING PLAN & PROCEDURES DOCUMENTATION SHALL BE COMPLETE AND ACCURATE PAGE 15
 2. EMERGENCY RESPONSE PLAN DOCUMENTATION SHALL BE COMPLETE AND ACCURATE PAGE 16
 3. DISPOSAL, LOCATION OF EQUIPMENT, AND MAINTENANCE SCHEDULE SHALL BE LISTED PAGE 16
 4. TANK INFORMATION FOR EACH TANK ON THE PROPERTY SHALL BE ACCURATELY DOCUMENTED
 5. FORM - A/B/D
 6. IDENTIFICATION OF DESIGNATED OPERATOR
- 6) SITE MAP PAGE 17
- 7) HAZARDOUS MATERIAL INVENTORY/ CHEMICAL DESCRIPTION PAGE 21
 1. SHALL BE COMPLETE AND ACCURATE FOR EACH CHEMICAL ON SITE
- 8) REGULATED SUBSTANCE REGISTRATION PAGE 23
 1. THIS SECTION SHALL BE COMPLETED IF THE CHEMICAL IS USED @ A STATIONARY SOURCE AT OR ABOVE THE THRESHOLD LIMIT OR IS AN EXTREMELY HAZARDOUS SUBSTANCE. MUST CONTAIN AN EPA# AN DUN & BRADSTREET# AND THE SIC CODE
- 9) HAZARDOUS GENERATOR - PAGE 29:
 1. TYPE OF GENERATOR SHALL BE CLEARLY INDICATED PAGE 29
 2. WASTE STREAM IDENTIFICATION SHALL BE COMPLETE (IF APPLICABLE) PAGE 29
- 10) MISCELLANEOUS DOCUMENTATION

FAILURE ON YOUR PART TO COMPLY WITH THIS NOTICE ON OR BEFORE: ___/___/___ WILL SUBJECT YOU TO PENALTIES PRESCRIBED BY SAID ORDINANCE. A FIRE DEPARTMENT RE-INSPECTION OF YOUR FACILITY SHALL BE MADE FOR FULL COMPLIANCE.

RECEIVED BY: _____	TITLE: _____
FOR ADDITIONAL INFORMATION, PLEASE CALL	DATE COMPLETED _____/_____/_____ INSPECTOR: _____
	BY ORDER OF THE FIRE CHIEF INSPECTOR SIGNATURE: _____ ASSIGNMENT _____



City of Los Angeles Fire Department
 Fire Prevention Bureau – Technical Section
 200 N. Main Street, Room 1780
 Los Angeles, CA 90012



3-27-12

ANNUAL INVENTORY UPDATE

Facility ID: FA0013655

LAUSD - CHATSWORTH HIGH SCHOOL
 333 S BEAUDRY AVE., 27TH FL
 LOS ANGELES, CA 90017

LOS ANGELES UNIFIED SCHOOL DIS
 10027 LURLINE AVE
 CHATSWORTH, CA 91311

Date last business plan submitted: 2/2/2012

Annual Inventory Update (choose one method):

- Modify existing business information and inventory** (see reverse side of this form) **OR**
- Submit new inventory** (must complete business information and chemical inventory forms) **OR**
- Complete Certification Statement 9** (below) stating that the inventory submitted within the last year is complete, accurate and current.

The Certification Statement can only be used if all of the following conditions apply:

1. Business has previously filed the hazardous materials inventory report
2. Company official signs **Certification Statement** and attests to:
 - a. Most recently submitted inventory is complete, accurate and up to date
 - b. No change in quantity of reportable hazardous materials is accurate and up to date
 - c. All hazardous materials are listed in that inventory
3. Business is not subject to EPCRA (Emergency Planning and Community Right to Know Act) reporting requirements

CERTIFICATION STATEMENT:

I certify that I am the business owner or officially designated representative of the business listed at the top of this form.
 I certify that the information contained in the hazardous materials inventory most recently submitted to the Los Angeles Fire Department CUPA is complete, accurate, and up to date.
 There has been no change in the quantity of hazardous materials reported in the most recently submitted inventory.
 No hazardous materials subject to inventory requirements are being handled that are not listed on the most recently submitted inventory.

[Signature]
 Signature

2/2/2012
 Date

By MARCH 1, 2012, please return to:

City of Los Angeles Fire Department
 Fire Prevention Bureau - Technical Section
 200 N. Main Street, Room 1780
 Los Angeles, CA 90012

EHS
 Title

California Health and Safety Code, Chapter 6.95 requires all handlers of hazardous materials to annually update their hazardous material inventory with the local administering agency on or before March 1. The City of Los Angeles Fire Department, as that agency, processes and maintains business emergency response plans and inventories for businesses within the City.

Only list changes to your existing inventory here (you may attach additional pages if necessary)

Chemical Name/CAS #	Maximum daily amount	Storage Container	Physical State: gal, lbs, cubic ft.	Storage Location	Inactive Y or N	Effective date

**Please list any Business/ Owner changes. (If you have further information to submit, you may attach additional pages)
A copy of your business license is required when reporting a change of ownership.**

Owner Name	Business name	Mailing address	Other	Effective Date

For more information on the CUPA Program, please visit our website:
<http://www.lafd.org/prevention> or call (213) 978-3680.

Certified Mail 7009 0820 0001 6384 7739

Los Angeles Unified School District

36780

Office of Environmental Health and Safety

RAMON C. CORTINES
Superintendent of Schools

WENDY MACY
Chief Operating Officer

JOHN STERRITT
Director

September 14, 2010

FA13654

Los Angeles County Fire Department
Health Hazardous Materials Division
Data Operations Unit
5825 Rickenbacker Road
Commerce, CA 90040

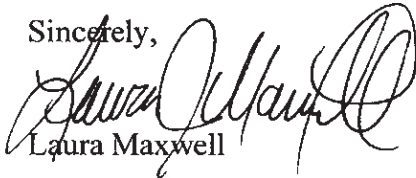
**SUBJECT: SUBMITTAL OF CONSOLIDATED CONTINGENCY PLAN FOR
CLEVELAND HIGH SCHOOL**

The Los Angeles Unified School District would like to submit a Consolidated Contingency Plan for the following site:

Facility Name: Cleveland High School
Street Address: 8140 Vanalden Avenue
City, State Zip: Reseda, CA 91335

This plan is for the reporting year 2010. If you have any questions, please contact me at (213) 241-3199.

Sincerely,



Laura Maxwell

c. Soe Aung, Environmental Health Supervisor
Herman Clay, Cleveland High School

Enclosure(s):

Received
SEP 28 2010
HHMD - Data Ops

**UNIFIED PROGRAM (UP) FORM
BUSINESS ACTIVITIES**

I. FACILITY IDENTIFICATION

FACILITY ID #	F	A	0	0	1	3	6	5	4	1	EPA ID # (Hazardous Waste Only)	2
											CAD982039281	

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3
Cleveland 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5	-UST FACILITY -UST TANK (one page per tank)
2. Intend to upgrade existing or install new USTs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8	NO FORM REQUIRED TO CUPAs
---	---	---	---------------------------

D. HAZARDOUS WASTE			
1. Generate hazardous waste?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10	-RECYCLABLE MATERIALS REPORT
3. Treat hazardous waste on site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12	-CERTIFICATION OF FINANCIAL ASSURANCE
5. Consolidate hazardous waste generated at a remote site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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) ?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15b	-Consult local CUPA or PA for added reporting requirements.
b. Required by a CUPA or PA to provide other information?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15c	-Waste Generator Form (LA County)

Received
 SEP 8 2010
 HHMD Data Ops

OFFICIAL USE ONLY	UP Form	HW	HM	ARP	AST	UST	TP	CUPA	PA
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UNIFIED PROGRAM (UP) FORM BUSINESS OWNER/OPERATOR IDENTIFICATION

NEW BUSINESS
 OUT OF BUSINESS
 REVISE/UPDATE (EFFECTIVE _____)
 PAGE _____ OF _____

I. IDENTIFICATION

FACILITY ID#	F	A	0	0	1	3	6	5	4	1	BEGINNING DATE	100	ENDING DATE	101
											1/1/2010		12/31/2010	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)											3 BUSINESS PHONE		102	
Cleveland High School											(818) 885-2300			
BUSINESS SITE ADDRESS														103
8140 Vanalden Avenue														
CITY Reseda										104	CA	ZIP CODE 91335		105
DUN & BRADSTREET N/A										106	SIC CODE (4 digit #) 8211		107	
COUNTY Los Angeles										108	UNINCORPORATED No		133a	
BUSINESS OPERATOR NAME										109	BUSINESS OPERATOR PHONE		110	
Los Angeles Unified School District										(213) 241-3199				

II. BUSINESS OWNER

OWNER NAME										111	OWNER PHONE		112	
Los Angeles Unified School District										(213) 241-3199				
OWNER MAILING ADDRESS														113
333 S. Beaudry Avenue, 27th Floor														
CITY Los Angeles										114	STATE CA	115	ZIP CODE 90017	116

III. ENVIRONMENTAL CONTACT

CONTACT NAME										117	CONTACT PHONE		118	
Soe Aung										(213) 241-3199				
CONTACT MAILING ADDRESS														119
333 S. Beaudry Avenue, 27th Floor														
CITY Los Angeles										120	STATE CA	121	ZIP CODE 90017	122

-PRIMARY-

IV. EMERGENCY CONTACTS

-SECONDARY-

NAME					123	NAME					128
Herman Clay						Javier Pena					
TITLE					124	TITLE					129
Principal						Plant Manager					
BUSINESS PHONE (818) 885-2300					125	BUSINESS PHONE (818) 885-2300					130
24-HOUR PHONE					126	24-HOUR PHONE					131
PAGER #					127	PAGER #					132

V. ADDITIONAL LOCALLY COLLECTED INFORMATION

NUMBER OF EMPLOYEES 5					133b	FEDERAL TAX IDENTIFICATION NUMBER					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					134	DATE		134	NAME OF DOCUMENT PREPARER			135
<i>Herman Clay</i>						9/14/2010			Laura Maxwell			
NAME OF SIGNER (print)					136	TITLE OF SIGNER		137				
Herman Clay						Robert Rokauskas, AP			Principal			

OFFICIAL USE ONLY		UP Form	HW	HM	ARP	AST	UST	TP	CUPA	PA
INSPECTOR	DISTRICT	DATE OF INSPECTION		DIVISION		BATTALION		STATION		

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

COVER PAGE

FACILITY IDENTIFICATION			
BUSINESS NAME Cleveland High School	3	FACILITY ID # 1 FA0013654	
SITE ADDRESS 8140 Vanalden Avenue	103	CITY Reseda	104 ZIP CODE 105 91335

The Consolidated Contingency Plan provides businesses a format to comply with the emergency planning requirements of the following three written hazardous materials emergency response plans required in California:

- ◁ Hazardous Materials Business Plan (HSC Chapter 6.95 Section 25504 (b) and 19 CCR Sections 2729-2732),
- ◁ Hazardous Waste Generator Contingency Plan (22 CCR Section 66264.52), and,
- ◁ Underground Storage Tank Emergency Response Plan and Monitoring Program (23 CCR Sections 2632 and 2641).

This format is designed to reduce duplication in the preparation and use of emergency response plans at the same facility, and to improve the coordination between facility response personnel and local, state and federal emergency responders during an emergency. Use the chart below to determine which sections of the Consolidated Contingency Plan need to be completed for your facility. If you are unsure as to which programs your facility is subject to, refer to the Business Activities Page.

PROGRAMS	SECTION(S) TO BE COMPLETED
Hazardous Materials Business Plan (HMBP)	Cover Page, Section I, and Site Map(s)
Hazardous Waste Generator (HWG)	Cover Page, Section I, and Site Map(s)
Underground Storage Tank (UST)	Cover Page, Sections I and II, and Site Map(s)
HMBP, HWG, UST	Cover Page, Sections I and II, and Site Map(s)

A copy of the plan shall be submitted to your local CUPA and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency. Describe below where a copy of your Contingency Plan, including the hazardous material inventories and Site Map(s), is located at your business:

Main Office

PLAN CERTIFICATION

I certify under penalty of law that I have personally examined and I am familiar with the information provided by this plan and to the best of my knowledge the information is accurate, complete, and true.

Printed Name of Owner/ Operator Herman Clay	<i>Robert Rakauskas, AD</i>	Title of Owner/Operator Principal
Signature of Owner/ Operator <input checked="" type="checkbox"/>	<i>[Signature]</i>	Date 9/14/2010

Received
SEP - 8 2010
HHMD - Data Ops

We appreciate the effort of local businesses in completing these plans and will assist in every possible way. If you have any questions, please contact your local CUPA or PA.

OFFICIAL USE ONLY			DATE RECEIVED			REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA		

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

I. FACILITY IDENTIFICATION			
BUSINESS NAME Cleveland High School		3	FACILITY ID # 1 FA0013654
SITE ADDRESS 8140 Vanalden Avenue		103	CITY Reseda
		104	ZIP CODE 105 91335
II. EMERGENCY CONTACTS			
PRIMARY		SECONDARY	
NAME Herman Clay	123	NAME Javier Pena	128
TITLE Principal	124	TITLE Plant Manager	129
BUSINESS PHONE (818) 885-2300	125	BUSINESS PHONE (818) 885-2300	130
24-HOUR PHONE	126	24-HOUR PHONE	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:			
<input type="checkbox"/> Your Name and the Telephone Number from where you are calling. <input type="checkbox"/> Exact address of the release or threatened release. <input type="checkbox"/> Date, time, cause, and type of incident (e.g. fire, air release, spill etc.) <input type="checkbox"/> Material and quantity of the release, to the extent known. <input type="checkbox"/> Current condition of the facility. <input type="checkbox"/> Extent of injuries, if any. <input type="checkbox"/> 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: Northridge Medical Center		PHONE NO: (818) 885-8500	
ADDRESS: 18300 Roscoe Blvd.			
CITY: Northridge		ZIP CODE: 91325	

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					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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: Ecology Control Industries	PHONE NO: (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 (<i>check all which apply</i>): <input checked="" type="checkbox"/> Verbal <input checked="" type="checkbox"/> Telephone (<i>including cellular</i>) <input checked="" type="checkbox"/> Alarm System <input checked="" type="checkbox"/> Public Address System <input checked="" type="checkbox"/> Intercom <input type="checkbox"/> Pagers <input checked="" type="checkbox"/> Portable Radio <input type="checkbox"/> Other (<i>specify</i>):	
2. <input checked="" type="checkbox"/> Evacuation map is prominently displayed throughout the facility. Yes. In the Safe School Plan	
3. <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> Hazardous Waste/ Hazardous Materials Storage Areas <input type="checkbox"/> Production Floor <input type="checkbox"/> Process Lines <input checked="" type="checkbox"/> Bench/ Lab <input type="checkbox"/> Waste Treatment <input type="checkbox"/> Other:	
Identify mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion. <input checked="" type="checkbox"/> Utilities <input checked="" type="checkbox"/> Sprinkler Systems <input checked="" type="checkbox"/> Cabinets <input checked="" type="checkbox"/> Shelves <input type="checkbox"/> Racks <input type="checkbox"/> Pressure Vessels <input type="checkbox"/> Gas Cylinders <input type="checkbox"/> Tanks <input type="checkbox"/> Process Piping <input checked="" type="checkbox"/> Shutoff Valves <input type="checkbox"/> 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:
<p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>
<p>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?</p> <p>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.</p>
<p>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?</p> <p>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.</p>

**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	<input type="checkbox"/> Cartridge Respirators		
	<input type="checkbox"/> Chemical Monitoring Equipment (describe)		
	<input type="checkbox"/> Chemical Protective Aprons/Coats		
	<input checked="" type="checkbox"/> Chemical Protective Boots		Rubber
	<input checked="" type="checkbox"/> Chemical Protective Gloves		Latex
	<input type="checkbox"/> Chemical Protective Suits (describe)		
	<input checked="" type="checkbox"/> Face Shields		Plastic
	<input checked="" type="checkbox"/> First Aid Kits/Stations (describe)		Standard
	<input checked="" type="checkbox"/> Hard Hats		Plastic
	<input checked="" type="checkbox"/> Plumbed Eye Wash Stations		Standard
	<input type="checkbox"/> Portable Eye Wash Kits (i.e. bottle type)		
	<input type="checkbox"/> Respirator Cartridges (describe)		
	<input checked="" type="checkbox"/> Safety Glasses/Splash Goggles		Plastic
	<input type="checkbox"/> Safety Showers		
	<input type="checkbox"/> Self-Contained Breathing Apparatuses (SCBA)		
<input type="checkbox"/> Other (describe)			
Fire Extinguishing Systems	<input checked="" type="checkbox"/> Automatic Fire Sptinkler Systems		Standard
	<input checked="" type="checkbox"/> Fire Alarm Boxes/Stations		Standard
	<input checked="" type="checkbox"/> Fire Extinguisher Systems (describe)		Standard
	<input type="checkbox"/> Other (describe)		
Spill Control Equipment and Decontamination Equipment	<input checked="" type="checkbox"/> Absorbents (describe)		Absorbent
	<input type="checkbox"/> Berms/Dikes (describe)		
	<input type="checkbox"/> Decontamination Equipment (describe)		
	<input type="checkbox"/> Emergency Tanks (describe)		
	<input type="checkbox"/> Exhaust Hoods		
	<input type="checkbox"/> Gas Cylinders Leak Repair Kits (describe)		
	<input type="checkbox"/> Neutralizers (describe)		
	<input type="checkbox"/> Overpack Drums		
	<input type="checkbox"/> Sumps (describe)		
<input type="checkbox"/> Other (describe)			
Communications and Alarm Systems	<input type="checkbox"/> Chemical Alarms (describe)		
	<input checked="" type="checkbox"/> Intercoms/ PA Systems		Standard
	<input checked="" type="checkbox"/> Portable Radios		Hand-held
	<input checked="" type="checkbox"/> Telephones		Standard
	<input type="checkbox"/> Underground Tank Leak Detection Monitors		
<input type="checkbox"/> Other (describe)			
Additional Equipment (Use Additional Pages if Needed.)			

*Use the Location Codes (LC) from the Site Map(s) prepared for your Contingency Plan.

**Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

SITE MAP

A site plan and storage map must be included with your Contingency Plan. For relatively small facilities, these documents may be combined into one drawing. Since these drawings are intended for use in emergency response situations, larger facilities (*generally those with complex and/or multiple buildings*) should provide an overall site plan and a separate storage map for each building/storage area. A blank Facility Site Map has been provided on the reverse side of this page. You may complete that page or attach any other drawing(s) which contain(s) the information required below.

1. Site Plan: This drawing shall contain, at a minimum, the following information:

- a. Site Orientation (north, south, etc.);
- b. Approximate scale (e.g. "1 inch = 10 feet");
- c. Date the map was drawn;
- d. Locations of all buildings and other structures;
- e. Parking lots and internal roads;
- f. Hazardous materials loading/unloading areas;
- g. Outside hazardous materials storage or use areas;
- h. Storm drain and sanitary sewer drain inlets;
- i. Wells for monitoring of underground tank systems;
- j. Primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas;
- k. Adjacent property use;
- l. Locations and names of adjacent streets and alleys;
- m. Access and egress points and roads.

2. Storage Map(s): The map(s) shall contain, at a minimum, the following information:

- a. General purpose of each section/area within each building (e.g. "Office Area", "Manufacturing Area", etc.);
- b. Location of each hazardous material/waste storage, dispensing, use, or handling area (e.g. *individual underground tanks, aboveground tanks, storage rooms, paint booths, etc.*). Each area shall be identified by a unique location code number, letter, or name (e.g. "1", "2", "3", "A", "B", "C", etc.);
- c. Entrances to and exits from each building and hazardous material/waste room/area;
- d. Location of each utility emergency shut-off point (i.e. gas, water, electric.);
- e. Location of each monitoring system control panel (e.g. *underground tank monitoring, toxic gas monitoring, etc.*).

3. Map Legend

Item and/or Description	Location Code (LC)
Fuel Bunker	F - 6
ER Bin	G - 7
Main Electrical Shut-off	G - 8
Main Electrical Shut-off	F - 6
Main Gas Shut-off	G - 4
Main Gas Shut-off	D - 2
Main Gas Shut-off	E - 1
Main Water Shut-off	H - 6
FDC	J - 4
Hydrant	J - 6
Clarifier	E - 6

UNIFIED PROGRAM (UP) FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

ADD DELETE REVISE REPORTING YEAR 2010 200 Page of

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
Cleveland High School

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) 202
 Yes No

FACILITY ID # F A 0 0 1 3 6 5 4 MAP# (optional) 203 GRID# (optional) 204
See Page 18 **F-6**

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET 206
Gasoline Yes No
If Subject to EPCRA, refer to instructions

COMMON NAME 207 EHS* 208
Gasoline Yes No

CAS# 209 *If EHS is "Yes", all amounts below must be in lbs.
8006-61-9

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) 211 RADIOACTIVE 212 CURIES 213
 a. PURE b. MIXTURE c. WASTE Yes No

PHYSICAL STATE (Check one item only) 214 LARGEST CONTAINER 215
 a. SOLID b. LIQUID c. GAS **55 Gallons**

FED HAZARD CATEGORIES (Check all that apply) 216
 a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217 MAXIMUM DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220
80 Gallons **165 Gallons** **N/A** **N/A**

UNITS* 221 DAYS ON SITE: 222
 a. GALLONS b. CUBIC FEET c. POUNDS d. TONS **365**
* If EHS, amount must be in pounds.

STORAGE CONTAINER 223
 e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE q. RAIL CAR
 f. CAN j. BAG n. PLASTIC BOTTLE r. OTHER
 g. CARBOY k. BOX o. TOE BIN
 h. SILO l. CYLINDER p. TANK WAGON

STORAGE PRESSURE 224
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

STORAGE TEMPERATURE 225
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT c. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
100 226	Gasoline 227	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 228	mixture 229
0 - 50 230	Miscellaneous Hydrocarbons 231	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 232	mixture 233
0 - 25 234	Xylene, mixed isomers 235	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 236	1330-20-7 237
0 - 25 238	Toluene 239	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 240	108-88-3 241
0 - 5 242	1, 2, 4-Trimethyl Benzene 243	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 244	95-63-6 245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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UNIFIED PROGRAM (UP) FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

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 200 Page of

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
Cleveland High School

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) 202
 Yes No

FACILITY ID # **F A 0 0 1 3 6 5 4**
 MAP# (optional) 203 **See Page 18**
 GRID# (optional) 204 **F-6**

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 **CITGO No. 2 Diesel Fuel, Low Sulfur, All Grades**
 TRADE SECRET 206
 Yes No
If Subject to EPCRA, refer to instructions

COMMON NAME **Diesel Fuel** 207
 EHS* 208
 Yes No

CAS# **68476-24-6** 209
 *If EHS is "Yes", all amounts below must be in lbs. 210

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 211

HAZARDOUS MATERIAL TYPE (Check one item only)
 a. PURE
 b. MIXTURE
 c. WASTE 211
 RADIOACTIVE Yes No 212
 CURIES 213

PHYSICAL STATE (Check one item only)
 a. SOLID
 b. LIQUID
 c. GAS 214
 LARGEST CONTAINER **55 Gallons** 215

FED HAZARD CATEGORIES (Check all that apply)
 a. FIRE
 b. REACTIVE
 c. PRESSURE RELEASE
 d. ACUTE HEALTH
 e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217 **25 Gallons**
 MAXIMUM DAILY AMOUNT 218 **55 Gallons**
 ANNUAL WASTE AMOUNT 219 **N/A**
 STATE WASTE CODE 220 **N/A**

UNITS* a. GALLONS
 b. CUBIC FEET
 c. POUNDS
 d. TONS 221
 DAYS ON SITE: **365** 222
* If EHS, amount must be in pounds.

STORAGE CONTAINER
 e. PLASTIC/NONMETALLIC DRUM
 i. FIBER DRUM
 m. GLASS BOTTLE
 q. RAIL CAR
 f. CAN
 j. BAG
 n. PLASTIC BOTTLE
 r. OTHER
 g. CARBOY
 k. BOX
 o. TOE BIN
 h. SILO
 l. CYLINDER
 p. TANK WAGON 223

STORAGE PRESSURE
 a. AMBIENT
 b. ABOVE AMBIENT
 c. BELOW AMBIENT 224

STORAGE TEMPERATURE
 a. AMBIENT
 b. ABOVE AMBIENT
 c. BELOW AMBIENT
 c. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 - 10 226	Nonane, all isomers 27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 228	Mixture 229
0 - 2 230	Trimethylbenzenes, all isomers 31	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 232	25551-13-7 233
0 - 2 234	Napthalene 35	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 236	91-20-3 237
0 - 2 238	Biphenyl (Diphenyl) 39	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 240	92-52-4 241
0 - 1 242	Cumene 43	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 244	98-82-8 245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

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UNIFIED PROGRAM (UP) FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

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I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
Cleveland High School

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) 202
 Yes No

FACILITY ID # **F A 0 0 1 3 6 5 4** MAP# (optional) **See Page 18** GRID# (optional) 203 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 **RQ Waste Asbestos** TRADE SECRET 206
 Yes No
If Subject to EPCRA, refer to instructions

COMMON NAME 207 **EHS*** 208
 Yes No

CAS# 209 *If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) 211 RADIOACTIVE 213
 a. PURE b. MIXTURE c. WASTE Yes No 12 CURIES

PHYSICAL STATE (Check one item only) 214 LARGEST CONTAINER **40 cubic yards** 215
 a. SOLID b. LIQUID c. GAS

FED HAZARD CATEGORIES (Check all that apply) 216
 a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217 **20 cubic yards** MAXIMUM DAILY AMOUNT 218 **40 cubic yards** ANNUAL WASTE AMOUNT 219 **60 cubic yards** STATE WASTE CODE 220 **151**

UNITS* (Check one item only) 221 DAYS ON SITE: 222
 a. GALLONS b. CUBIC FEET c. POUNDS d. TONS **90**
* If EHS, amount must be in pounds.

STORAGE CONTAINER 223
 a. ABOVE GROUND TANK e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE
 b. UNDERGROUND TANK f. CAN j. BAG n. PLASTIC BOTTLE
 c. TANK INSIDE BUILDING g. CARBOY k. BOX o. TOE BIN
 d. STEEL DRUM h. SILO l. CYLINDER p. TANK WAGON

STORAGE PRESSURE 224
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

STORAGE TEMPERATURE 225
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT c. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
226	RQ Asbestos Waste 27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 228	229
230	31	<input type="checkbox"/> Yes <input type="checkbox"/> No 232	233
234	35	<input type="checkbox"/> Yes <input type="checkbox"/> No 236	237
238	39	<input type="checkbox"/> Yes <input type="checkbox"/> No 240	241
242	43	<input type="checkbox"/> Yes <input type="checkbox"/> No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

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(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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UNIFIED PROGRAM (UP) FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

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I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
Cleveland High School

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) 202
 Yes No

FACILITY ID # F A 0 0 1 3 6 5 4 MAP# (optional) 203 GRID# (optional) 204
See Page 18 E-6

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET 206
Liquid waste-- clarifier sludge Yes No
If Subject to EPCRA, refer to instructions

COMMON NAME 207 EHS* 208
Liquid waste-- clarifier sludge Yes No

CAS# 209 *If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) 211 RADIOACTIVE 12 CURIES 213
 a. PURE b. MIXTURE c. WASTE Yes No

PHYSICAL STATE (Check one item only) 214 LARGEST CONTAINER 215
 a. SOLID b. LIQUID c. GAS 1500 gallons

FED HAZARD CATEGORIES (Check all that apply) 216
 a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217 MAXIMUM DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220
220 gallons 449 gallons 449 gallons 135

UNITS* (Check one item only) 221 DAYS ON SITE: 222
 a. GALLONS b. CUBIC FEET c. POUNDS d. TONS 90
* If EHS, amount must be in pounds.

STORAGE CONTAINER 223
 a. ABOVE GROUND TANK e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE
 b. UNDERGROUND TANK f. CAN j. BAG n. PLASTIC BOTTLE
 c. TANK INSIDE BUILDING g. CARBOY k. BOX o. TOE BIN
 d. STEEL DRUM h. SILO l. CYLINDER p. TANK WAGON

STORAGE PRESSURE 224
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

STORAGE TEMPERATURE 225
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT c. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
226	Liquid waste-- clarifier sludge 27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 228	229
230		<input type="checkbox"/> Yes <input type="checkbox"/> No 232	233
234		<input type="checkbox"/> Yes <input type="checkbox"/> No 236	237
238		<input type="checkbox"/> Yes <input type="checkbox"/> No 240	241
242		<input type="checkbox"/> Yes <input type="checkbox"/> No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

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UNIFIED PROGRAM (UP) FORM HAZARDOUS WASTE GENERATOR

PAGE OF

BUSINESS NAME: Cleveland High School

FACILITY ID #
F A 0 0 1 3 6 5 4

NO. OF EMPLOYEES: 33b
5

EPA ID #
CAD982039281

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)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SMALL QUANTITY GENERATOR (>100 KG BUT <1000 KG HAZARDOUS WASTE PER MONTH)	<input type="checkbox"/>	<input type="checkbox"/>
CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (< 100 KG HAZARDOUS WASTE PER MONTH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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
Demolition	Asbestos debris	151	60 cubic yards	landfill	
Auto Shop (Close	Liquid waste-- clarifier	135	449 gallons	treatment	

I certify that the information provided herein is true and accurate to the best of my knowledge.

OWNER/OPERATOR NAME Herman Clay

OWNER/OPERATOR TITLE Principal

OWNER/OPERATOR SIGNATURE 

DATE

9/14/2010

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DISTRICT

INSPECTOR

FA 13654.

Los Angeles Unified School District
Office of Environmental Health and Safety

RAMON C. CORTINES
Superintendent of Schools

DAVID HOLMQUIST
Chief Operating Officer

YI HWA KIM
*Deputy Environmental
Health and Safety Director*

September 28, 2009

Los Angeles County Fire Department
Health Hazardous Materials Division
Data Operations Unit
5825 Rickenbacker Road
Commerce, CA 90040

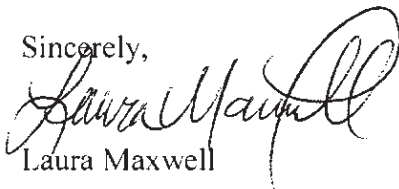
**SUBJECT: SUBMITTAL OF CONSOLIDATED CONTINGENCY PLAN FOR
CLEVELAND HIGH SCHOOL**

The Los Angeles Unified School District would like to submit a Consolidated Contingency Plan for the following site:

Facility Name: Cleveland High School
Street Address: 8140 Vanalden Avenue
City, State Zip: Reseda, CA 91335

This plan is for the reporting year 2009. If you have any questions, please contact me at (213) 241-3199.

Sincerely,



Laura Maxwell

c. Soe Aung, Environmental Compliance Manager
Herman Clay, Cleveland High School

Enclosure(s):

Received
OCT 06 2009
HHMD - Data Ops

UNIFIED PROGRAM (UP) FORM BUSINESS ACTIVITIES

Page 1 of 3

I. FACILITY IDENTIFICATION

FACILITY ID #	F	A	0	0	1	3	6	5	4	1	EPA ID # (Hazardous Waste Only) CAD982039281
---------------	---	---	---	---	---	---	---	---	---	---	---

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3
Cleveland 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5 --UST FACILITY --UST TANK (one page per tank)
2. Intend to upgrade existing or install new USTs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8 NO FORM REQUIRED TO CUPAs
D. HAZARDOUS WASTE		
1. Generate hazardous waste?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10 --RECYCLABLE MATERIALS REPORT
3. Treat hazardous waste on site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12 --CERTIFICATION OF FINANCIAL ASSURANCE
5. Consolidate hazardous waste generated at a remote site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15b --Consult local CUPA or PA for added reporting requirements.
b. Required by a CUPA or PA to provide other information?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	15c --Waste Generator Form (LA County)

OFFICIAL USE ONLY	UP Form	HW	HM	ARP	AST	UST	TP	CUPA	PA
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UNIFIED PROGRAM (UP) FORM

BUSINESS OWNER/OPERATOR IDENTIFICATION

NEW BUSINESS
 OUT OF BUSINESS
 REVISE/UPDATE (EFFECTIVE)
 PAGE OF

I. IDENTIFICATION

FACILITY ID#	F	A	0	0	1	3	6	5	4	1	BEGINNING DATE	ENDING DATE	
											100	101	
											100	101	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)											BUSINESS PHONE		
Cleveland High School											(818) 885-2300		
BUSINESS SITE ADDRESS													
8140 Vanalden Avenue													
CITY Reseda										104	CA	ZIP CODE 91335	105
DUN & BRADSTREET N/A										106	SIC CODE (4 digit #) 8211		107
COUNTY Los Angeles										108	UNINCORPORATED No		133a
BUSINESS OPERATOR NAME										109	BUSINESS OPERATOR PHONE		110
Los Angeles Unified School District												(213) 241-3199	

II. BUSINESS OWNER

OWNER NAME	111	OWNER PHONE	112
Los Angeles Unified School District		(213) 241-3199	
OWNER MAILING ADDRESS			
333 S. Beaudry Avenue, 20th Floor			
CITY	114	STATE	115
Los Angeles		CA	ZIP CODE 90017

III. ENVIRONMENTAL CONTACT

CONTACT NAME	117	CONTACT PHONE	118
Soe Aung		(213) 241-3199	
CONTACT MAILING ADDRESS			
333 S. Beaudry Avenue, 20th Floor			
CITY	120	STATE	121
Los Angeles		CA	ZIP CODE 90017

-PRIMARY-

IV. EMERGENCY CONTACTS

-SECONDARY-

NAME	123	NAME	128
Herman Clay		Javier Pena	
TITLE	124	TITLE	129
Principal		Plant Manager	
BUSINESS PHONE (818) 885-2300	125	BUSINESS PHONE (818) 885-2300	130
24-HOUR PHONE	126	24-HOUR PHONE	131
PAGER #	127	PAGER #	132

V. ADDITIONAL LOCALLY COLLECTED INFORMATION

NUMBER OF EMPLOYEES 5	133b	FEDERAL TAX IDENTIFICATION NUMBER	133c
-----------------------	------	-----------------------------------	------

MAILING/ BILLING INFORMATION

ADDRESS	133d	CITY	133e	STATE	133f	ZIP CODE	133g
333 S. Beaudry Avenue, 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	NAME OF DOCUMENT PREPARER	135
<i>Herman Clay</i>	9/24/2009		Laura Maxwell	
NAME OF SIGNER (print)	136	TITLE OF SIGNER	137	
Herman Clay		Principal		

OFFICIAL USE ONLY	UP Form	HW	HM	ARP	AST	UST	TP	CUPA	PA
INSPECTOR	DISTRICT	DATE OF INSPECTION	DIVISION	BATTALION	STATION				

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

COVER PAGE

FACILITY IDENTIFICATION

BUSINESS NAME Cleveland High School		3	FACILITY ID # 1 FA0013654		
SITE ADDRESS 8140 Vanalden Avenue		103	CITY Reseda	104	ZIP CODE 105 91335

The Consolidated Contingency Plan provides businesses a format to comply with the emergency planning requirements of the following three written hazardous materials emergency response plans required in California:

- ◁ Hazardous Materials Business Plan (HSC Chapter 6.95 Section 25504 (b) and 19 CCR Sections 2729-2732),
- ◁ Hazardous Waste Generator Contingency Plan (22 CCR Section 66264.52), and,
- ◁ Underground Storage Tank Emergency Response Plan and Monitoring Program (23 CCR Sections 2632 and 2641).

This format is designed to reduce duplication in the preparation and use of emergency response plans at the same facility, and to improve the coordination between facility response personnel and local, state and federal emergency responders during an emergency. Use the chart below to determine which sections of the Consolidated Contingency Plan need to be completed for your facility. If you are unsure as to which programs your facility is subject to, refer to the Business Activities Page.


PROGRAMS	SECTION(S) TO BE COMPLETED
Hazardous Materials Business Plan (HMBP)	Cover Page, Section I, and Site Map(s)
Hazardous Waste Generator (HWG)	Cover Page, Section I, and Site Map(s)
Underground Storage Tank (UST)	Cover Page, Sections I and II, and Site Map(s)
HMBP, HWG, UST	Cover Page, Sections I and II, and Site Map(s)

A copy of the plan shall be submitted to your local CUPA and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency. Describe below where a copy of your Contingency Plan, including the hazardous material inventories and Site Map(s), is located at your business:

Main Office

PLAN CERTIFICATION

I certify under penalty of law that I have personally examined and I am familiar with the information provided by this plan and to the best of my knowledge the information is accurate, complete, and true.

Printed Name of Owner/ Operator Herman Clay	Title of Owner/Operator Principal
Signature of Owner/ Operator 	Date 9/24/2009

We appreciate the effort of local businesses in completing these plans and will assist in every possible way. If you have any questions, please contact your local CUPA or PA.

OFFICIAL USE ONLY			DATE RECEIVED			REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA		

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

I. FACILITY IDENTIFICATION					
BUSINESS NAME Cleveland High School			3	FACILITY ID # 1 FA0013654	
SITE ADDRESS 8140 Vanalden Avenue		103	CITY Reseda	104	ZIP CODE 105 91335
II. EMERGENCY CONTACTS					
PRIMARY			SECONDARY		
NAME Herman Clay	123	NAME Javier Pena	128		
TITLE Principal	124	TITLE Plant Manager	129		
BUSINESS PHONE (818) 885-2300	125	BUSINESS PHONE (818) 885-2300	130		
	126		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:					
<input type="checkbox"/> Your Name and the Telephone Number from where you are calling. <input type="checkbox"/> Exact address of the release or threatened release. <input type="checkbox"/> Date, time, cause, and type of incident (e.g. fire, air release, spill etc.) <input type="checkbox"/> Material and quantity of the release, to the extent known. <input type="checkbox"/> Current condition of the facility. <input type="checkbox"/> Extent of injuries, if any. <input type="checkbox"/> 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: Northridge Medical Center			PHONE NO: (818) 885-8500		
ADDRESS: 18300 Roscoe Blvd.					
CITY: Northridge			ZIP CODE: 91325		
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: Ecology Control Industries	PHONE NO: (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

- 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*):
- Evacuation map is prominently displayed throughout the facility. **Yes. In the Safe School Plan**
- 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.

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> Hazardous Waste/ Hazardous Materials Storage Areas | <input type="checkbox"/> Production Floor | <input type="checkbox"/> Process Lines |
| <input checked="" type="checkbox"/> Bench/ Lab | <input type="checkbox"/> Waste Treatment | <input type="checkbox"/> Other: |

Identify mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.

- | | | | |
|---|---|--|---|
| <input checked="" type="checkbox"/> Utilities | <input checked="" type="checkbox"/> Sprinkler Systems | <input checked="" type="checkbox"/> Cabinets | <input checked="" type="checkbox"/> Shelves |
| <input type="checkbox"/> Racks | <input type="checkbox"/> Pressure Vessels | <input type="checkbox"/> Gas Cylinders | <input type="checkbox"/> Tanks |
| <input type="checkbox"/> Process Piping | <input checked="" type="checkbox"/> Shutoff Valves | <input type="checkbox"/> 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. 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.

**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	<input type="checkbox"/> Cartridge Respirators		
	<input type="checkbox"/> Chemical Monitoring Equipment (describe)		
	<input type="checkbox"/> Chemical Protective Aprons/Coats		
	<input checked="" type="checkbox"/> Chemical Protective Boots		Rubber
	<input checked="" type="checkbox"/> Chemical Protective Gloves		Latex
	<input type="checkbox"/> Chemical Protective Suits (describe)		
	<input checked="" type="checkbox"/> Face Shields		Plastic
	<input checked="" type="checkbox"/> First Aid Kits/Stations (describe)		Standard
	<input checked="" type="checkbox"/> Hard Hats		Plastic
	<input checked="" type="checkbox"/> Plumbed Eye Wash Stations		Standard
	<input type="checkbox"/> Portable Eye Wash Kits (i.e. bottle type)		
	<input type="checkbox"/> Respirator Cartridges (describe)		
	<input checked="" type="checkbox"/> Safety Glasses/Splash Goggles		Plastic
	<input type="checkbox"/> Safety Showers		
	<input type="checkbox"/> Self-Contained Breathing Apparatuses (SCBA)		
Fire Extinguishing Systems	<input checked="" type="checkbox"/> Automatic Fire Sptinkler Systems		Standard
	<input checked="" type="checkbox"/> Fire Alarm Boxes/Stations		Standard
	<input checked="" type="checkbox"/> Fire Extinguisher Systems (describe)		Standard
	<input type="checkbox"/> Other (describe)		
Spill Control Equipment and Decontamination Equipment	<input checked="" type="checkbox"/> Absorbents (describe)		Absorbent
	<input type="checkbox"/> Berms/Dikes (describe)		
	<input type="checkbox"/> Decontamination Equipment (describe)		
	<input type="checkbox"/> Emergency Tanks (describe)		
	<input type="checkbox"/> Exhaust Hoods		
	<input type="checkbox"/> Gas Cylinders Leak Repair Kits (describe)		
	<input type="checkbox"/> Neutralizers (describe)		
	<input type="checkbox"/> Overpack Drums		
	<input type="checkbox"/> Sumps (describe)		
	<input type="checkbox"/> Other (describe)		
Communications and Alarm Systems	<input type="checkbox"/> Chemical Alarms (describe)		
	<input checked="" type="checkbox"/> Intercoms/ PA Systems		Standard
	<input checked="" type="checkbox"/> Portable Radios		Hand-held
	<input checked="" type="checkbox"/> Telephones		Standard
	<input type="checkbox"/> Underground Tank Leak Detection Monitors		
Additional Equipment (Use Additional Pages if Needed.)	<input type="checkbox"/> Other (describe)		

*Use the Location Codes (LC) from the Site Map(s) prepared for your Contingency Plan.

**Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.

Unified Program (UP) Form CONSOLIDATED CONTINGENCY PLAN

SITE MAP

A site plan and storage map must be included with your Contingency Plan. For relatively small facilities, these documents may be combined into one drawing. Since these drawings are intended for use in emergency response situations, larger facilities (*generally those with complex and/or multiple buildings*) should provide an overall site plan and a separate storage map for each building/storage area. A blank Facility Site Map has been provided on the reverse side of this page. You may complete that page or attach any other drawing(s) which contain(s) the information required below.

1. **Site Plan:** This drawing shall contain, at a minimum, the following information:

- a. Site Orientation (north, south, etc.);
- b. Approximate scale (e.g. "1 inch = 10 feet");
- c. Date the map was drawn;
- d. Locations of all buildings and other structures;
- e. Parking lots and internal roads;
- f. Hazardous materials loading/unloading areas;
- g. Outside hazardous materials storage or use areas;
- h. Storm drain and sanitary sewer drain inlets;
- i. Wells for monitoring of underground tank systems;
- j. Primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas;
- k. Adjacent property use;
- l. Locations and names of adjacent streets and alleys;
- m. Access and egress points and roads.

2. **Storage Map(s):** The map(s) shall contain, at a minimum, the following information:

- a. General purpose of each section/area within each building (e.g. "Office Area", "Manufacturing Area", etc.);
- b. Location of each hazardous material/waste storage, dispensing, use, or handling area (e.g. *individual underground tanks, aboveground tanks, storage rooms, paint booths, etc.*). Each area shall be identified by a unique location code number, letter, or name (e.g. "1", "2", "3", "A", "B", "C", etc.);
- c. Entrances to and exits from each building and hazardous material/waste room/area;
- d. Location of each utility emergency shut-off point (i.e. gas, water, electric.);
- e. Location of each monitoring system control panel (e.g. *underground tank monitoring, toxic gas monitoring, etc.*).

3. **Map Legend**

Item and/or Description	Location Code (LC)
Fuel Bunker	F - 6
ER Bin	G - 7
Main Electrical Shut-off	G - 8
Main Electrical Shut-off	F - 6
Main Gas Shut-off	G - 4
Main Gas Shut-off	D - 2
Main Gas Shut-off	E - 1
Main Water Shut-off	H - 6
FDC	J - 4
Hydrant	J - 6

UNIFIED PROGRAM (UP) FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

ADD DELETE REVISE REPORTING YEAR 2009 200 Page of

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Cleveland High School	
CHEMICAL LOCATION	201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 202
FACILITY ID #	203 MAP# (optional) 204 GRID# (optional)
F A 0 0 1 3 6 5 4	See Page 18 F-6

II. CHEMICAL INFORMATION

CHEMICAL NAME Gasoline	205	TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	206
COMMON NAME Gasoline	207	EHS* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	208
CAS# 8006-61-9	209	*If EHS is "Yes", all amounts below must be in lbs. 210	
FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210			
HAZARDOUS MATERIAL TYPE (Check one item only) <input type="checkbox"/> a. PURE <input checked="" type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE	211	RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	213
PHYSICAL STATE (Check one item only) <input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS	214	LARGEST CONTAINER	215
LIED HAZARD CATEGORIES (Check all that apply) <input checked="" type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input checked="" type="checkbox"/> e. CHRONIC HEALTH		55 Gallons	
AVERAGE DAILY AMOUNT	217	MAXIMUM DAILY AMOUNT	218
80 Gallons		165 Gallons	
UNITS* (Check one item only) <input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS	221	ANNUAL WASTE AMOUNT	219
* If EHS, amount must be in pounds.		N/A	220
STORAGE CONTAINER	222		
<input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> f. CAN <input type="checkbox"/> g. CARBOY <input type="checkbox"/> h. SILO	<input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> j. BAG <input type="checkbox"/> k. BOX <input type="checkbox"/> l. CYLINDER	<input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> n. PLASTIC BOTTLE <input type="checkbox"/> o. TOE BIN <input type="checkbox"/> p. TANK WAGON	<input type="checkbox"/> q. RAIL CAR <input type="checkbox"/> r. OTHER
STORAGE PRESSURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT	224		
STORAGE TEMPERATURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> c. CRYOGENIC	225		

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
100	Gasoline	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	mixture
0 - 50	Miscellaneous Hydrocarbons	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	mixture
0 - 25	Xylene, mixed isomers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1330-20-7
0 - 25	Toluene	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	108-88-3
0 - 5	1, 2, 4-Trimethyl Benzene	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	95-63-6

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA. Please Sign Here
(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY		DATE RECEIVED		REVIEWED BY	
DIV	BN	STA	OTHER	DISTRICT	PA

UNIFIED PROGRAM (UP) FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

ADD DELETE REVISE REPORTING YEAR 2009 200 Page of

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
Cleveland High School

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) 202
 Yes No

FACILITY ID # F A 0 0 1 3 6 5 4 MAP# (optional) 203 GRID# (optional) 204
See Page 18 F-6

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET 206
CITGO No. 2 Diesel Fuel, Low Sulfur, All Grades Yes No
If Subject to EPCRA, refer to instructions

COMMON NAME Diesel Fuel 207 EHS* 208
 Yes No

CAS# 68476-24-6 209 *If EHS is "Yes", all amounts below must be in lbs. 210

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) 211 RADIOACTIVE 212 CURIES 213
 a. PURE b. MIXTURE c. WASTE Yes No

PHYSICAL STATE (Check one item only) 214 LARGEST CONTAINER 215
 a. SOLID b. LIQUID c. GAS 55 Gallons

FED HAZARD CATEGORIES (Check all that apply) 216
 a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217 MAXIMUM DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220
25 Gallons 55 Gallons N/A N/A

UNITS* (Check one item only) 221 DAYS ON SITE: 222
 a. GALLONS b. CUBIC FEET c. POUNDS d. TONS 365
* If EHS, amount must be in pounds.

STORAGE CONTAINER 223
 e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE q. RAIL CAR
 f. CAN j. BAG n. PLASTIC BOTTLE r. OTHER
 g. CARBOY k. BOX o. TOE BIN
 h. SILO l. CYLINDER p. TANK WAGON

STORAGE PRESSURE 224
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

STORAGE TEMPERATURE 225
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT c. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 - 10 226	Nonane, all isomers 27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 228	Mixture 229
0 - 2 230	Trimethylbenzenes, all isomers 31	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 232	25551-13-7 233
0 - 2 234	Napthalene 35	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 236	91-20-3 237
0 - 2 238	Biphenyl (Diphenyl) 39	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 240	92-52-4 241
0 - 1 242	Cumene 43	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 244	98-82-8 245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information. 246

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here
(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY		DATE RECEIVED		REVIEWED BY	
DIV	BN	STA	OTHER	DISTRICT	CUPA
					PA

UNIFIED PROGRAM (UP) FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

ADD DELETE REVISE REPORTING YEAR 2009 200 Page of

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)
Cleveland High School

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL 202
(EPCRA) Yes No

FACILITY ID # F A 0 0 1 3 6 5 4 MAP# (optional) 203 GRID# (optional) 204
See Page 18

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET 206
RQ Waste Asbestos Yes No
If Subject to EPCRA, refer to instructions

COMMON NAME 207 EHS* 208
 Yes No

CAS# 209 *If EHS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210

HAZARDOUS MATERIAL TYPE (Check one item only) a. PURE b. MIXTURE c. WASTE 211 RADIOACTIVE Yes No 12 CURIES 213

PHYSICAL STATE (Check one item only) a. SOLID b. LIQUID c. GAS 214 LARGEST CONTAINER 40 cubic yards 215

FED HAZARD CATEGORIES (Check all that apply) a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217 MAXIMUM DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220
20 cubic yards 40 cubic yards 170 cubic yards 151

UNITS* (Check one item only) a. GALLONS b. CUBIC FEET c. POUNDS d. TONS 221 DAYS ON SITE: 222
* If EHS, amount must be in pounds. 90

STORAGE CONTAINER a. ABOVE GROUND TANK e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE
 b. UNDERGROUND TANK f. CAN j. BAG n. PLASTIC BOTTLE
 c. TANK INSIDE BUILDING g. CARBOY k. BOX o. TOE BIN
 d. STEEL DRUM h. SILO l. CYLINDER p. TANK WAGON 223

STORAGE PRESSURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT 224

STORAGE TEMPERATURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT c. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
226	RQ Asbestos Waste 27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 228	229
230		<input type="checkbox"/> Yes <input type="checkbox"/> No 232	233
234		<input type="checkbox"/> Yes <input type="checkbox"/> No 236	237
238		<input type="checkbox"/> Yes <input type="checkbox"/> No 240	241
242		<input type="checkbox"/> Yes <input type="checkbox"/> No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information. 246

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here
(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY			DATE RECEIVED			REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA		

UNIFIED PROGRAM (UP) FORM HAZARDOUS WASTE GENERATOR

PAGE OF

BUSINESS NAME: **Cleveland High School**

FACILITY ID #
F A 0 0 1 3 6 5 4

NO. OF EMPLOYEES:

^{33b}
5

EPA ID #
CAD982039281

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)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SMALL QUANTITY GENERATOR (>100 KG BUT <1000 KG HAZARDOUS WASTE PER MONTH)	<input type="checkbox"/>	<input type="checkbox"/>
CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (< 100 KG HAZARDOUS WASTE PER MONTH)	<input type="checkbox"/>	<input type="checkbox"/>

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
Demolition	Asbestos debris	151	170 cubic yards	landfill	

I certify that the information provided herein is true and accurate to the best of my knowledge.

OWNER/OPERATOR NAME **Herman Clay**

OWNER/OPERATOR TITLE **Principal**

OWNER/OPERATOR SIGNATURE 

DATE **9/24/2009**

OFFICIAL USE ONLY	DATE RECEIVED	REVIEWED BY
CUPA	PA	DISTRICT
		INSPECTOR

City of LOS ANGELES
CALIFORNIA



DEPARTMENT OF FIRE
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Los Angeles Fire Department Data Entry Instruction Form (DEIF)



Date:	11/7/2008	New Business	<input type="checkbox"/>
Inspector's / Member:	SAMSON, JEAN C.	Fire Station:	073
Facility ID:	FA0013654	HM Inspector No.:	EE0000038
Business Name:		UST Inspector No.:	
LAUSD - CLEVELAND HIGH SCHOOL		Occ. Jurisdiction:	073

DATA ENTRY INSTRUCTION: *Check appropriate boxes*

- Changes on BP-1
- Changes on BP-8
- Changes on Attached CUPA Form(s)
- UST Adandon Sheets
- UST Installation Sheets
- Enter Inventory On Attached CUPA Forms
- Inactive Business *Journal Entry Should Be Included*
Reason:
- Other Instruction: *For Examples: Combine Business Under One BP Number*
VA & DA W/ JAVIER PENA (818) 349-8410.

Data Entry Name: _____

Date: _____

Acay

5/27/09



BUSINESS INFORMATION

Printed on: 10/31/2008

INSTRUCTIONS : Please complete and sign this form; your signature indicates that the information, as supplied, is accurate.

Business Number: FA0013654 This is your current business plan number. This number must appear on all business plan forms!
Business Name : LAUSD - CLEVELAND HIGH SCHOOL

Address Where Business is Conducted : 8140 N VANALDEN AVE,
RESEDA, CA 91335
Mailing Address : 333 S BEAUDRY AV FL 20
LOS ANGELES, CA 90017
Other On-Site Addresses:

Briefly describe the nature of the hazardous materials operations:

Number of Employees: 140 **Dun & Bradstreet Number:**
SIC Code : 8211

CONTACT	WORK #	24 HOUR #	PAGER #	OTHER #
Owner Name: LOS ANGELES UNIFIED SCHOOL DIS	(818) 349-8410		/	/
On-Site Manager:				
Emergency Contact: JAVIER PENA	(818) 349-8410			/
2nd Emergency Contact: ALLAN WEINER Robert Marks	(818) 349-8410			/

[Signature]

Signature of Legal Business Owner/Authorized Representative Title Date

Business Plan has been reviewed and approved: _____

Office Use Only Insp. ID: 424 Date: 11/7/08 D/E ID: _____ Date: _____ TS: _____



Hazardous Materials System BP-8: Computer Listing of Inventory Submitted Inspection Responsibility: VIU

Business No : FA0013654
First In : 073
Block # :

Printed on: 10/31/2008

Business Name : LAUSD - CLEVELAND HIGH SCHOOL	Business Address : 8140 N VANALDEN AVE,	Next Inspection Date : 12/17/2005
Business Owner : LOS ANGELES UNIFIED SCHOOL DIS	RESEDA, CA 91335	SIC Code : 8211
On-Site Manager :	Phone # :	# of Employees : 140
Emergency Contact : JAVIER PENA	Phone # : (818) 349-8410 Ext:	Sq. Ft. of Facility : N/A
Alt Emergency Contact : ALLAN WEINER	Phone # : (818) 349-8410 Ext:	Permit Date : 10/14/2008

LOCATION:

NFPA-704: N/A

Chemical Name

DIESEL

Hazard Class: FL FLAMMABLE LIQUIDS CLASS I (A, B, C)
Ingredients

HM Type

PURE

Max Quantity on Hand

55.00 GALLONS

Storage Type:

Max %

CAS #

State

LIQUID

Fed Haz Cata.

FIRE

Chemical Name

GASOLINE

Hazard Class: FL FLAMMABLE LIQUIDS CLASS I (A, B, C)
Ingredients

HM Type

PURE

Max Quantity on Hand

165.00 GALLONS

Storage Type:

Max %

CAS #

State

LIQUID

Fed Haz Cata.

FIRE

12/17/2005

INSP. SIC. _____ INSP. DATE: 12/17/08 BUS. REP. SIC. _____ DATE: _____ DE. SIC. _____ DATE: _____

My signature indicates that I have verified and agreed with the types and quantities of hazardous materials at this address

[Signature]

JAVIER PEÑA

LAC

FA 13654

~~FA # 0036780~~ N

Los Angeles Unified School District

Office of Environmental Health and Safety

DAVID L. BREWER III
Superintendent of Schools

DAVID HOLMQUIST
Chief Operating Officer

YI HWA KIM
Interim Director

October 20, 2008

Los Angeles County Fire Department
Health Hazardous Materials Division
Data Operations Unit
5825 Rickenbacker Road
Commerce, CA 90040

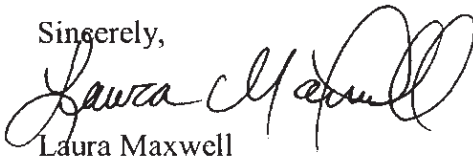
**SUBJECT: SUBMITTAL OF CONSOLIDATED CONTINGENCY PLAN FOR
CLEVELAND HIGH SCHOOL**

The Los Angeles Unified School District would like to submit a Consolidated Contingency Plan for the following site:

Facility Name: Cleveland High School
Street Address: 8140 Vanalden Avenue
City, State Zip: Reseda, CA 91335

This plan is for the reporting year 2008. If you have any questions, please contact me at (213) 241-3199.

Sincerely,



Laura Maxwell

c. Soe Aung, Environmental Compliance Manager
Robert Marks, Cleveland High School

Enclosure(s):

2008 OCT 28 PM 3 30

UNIFIED PROGRAM (UP) FORM BUSINESS ACTIVITIES

Page 1 of

I. FACILITY IDENTIFICATION

FACILITY ID #		1	EPA ID # (Hazardous Waste Only)	2
			CAD982039281	

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As)	3
Cleveland 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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? 2. Intend to upgrade existing or install new USTs? 3. Need to report closing a UST?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5	--UST FACILITY --UST TANK (one page per tank)
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6	--UST FACILITY --UST TANK (one per tank) --UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank)
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8	NO FORM REQUIRED TO CUPAs
---	---	---	---------------------------

D. HAZARDOUS WASTE 1. Generate hazardous waste?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10	--RECYCLABLE MATERIALS REPORT
3. Treat hazardous waste on site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12	--CERTIFICATION OF FINANCIAL ASSURANCE
5. Consolidate hazardous waste generated at a remote site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15b	--Consult local CUPA or PA for added reporting requirements.
b. Required by a CUPA or PA to provide other information?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15c	--Waste Generator Form (LA County)

OFFICIAL USE ONLY	UP Form	HW	HM	ARP	AST	UST	TP	CUPA	PA
-------------------	---------	----	----	-----	-----	-----	----	------	----

UNIFIED PROGRAM (UP) FORM

BUSINESS OWNER/OPERATOR IDENTIFICATION

NEW BUSINESS
 OUT OF BUSINESS
 REVISE/UPDATE (EFFECTIVE _____)
 PAGE _____ OF _____

I. IDENTIFICATION

FACILITY ID#		BEGINNING DATE	100	ENDING DATE	101
		1/1/2008		12/31/2008	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)			3	BUSINESS PHONE	
Cleveland High School				(818) 885-2300	
BUSINESS SITE ADDRESS					
8140 Vanalden Avenue					
CITY	104	CA	ZIP CODE	105	
Reseda			91335		
DUN & BRADSTREET	N/A	106	SIC CODE (4 digit #)	107	
			8211		
COUNTY	Los Angeles	108	UNINCORPORATED	133a	
			No		
BUSINESS OPERATOR NAME			109	BUSINESS OPERATOR PHONE	
Los Angeles Unified School District				(213) 241-3199	

II. BUSINESS OWNER

OWNER NAME			111	OWNER PHONE		112
Los Angeles Unified School District				(213) 241-3199		
OWNER MAILING ADDRESS						
333 S. Beaudry Avenue, 20th Floor						
CITY	114	STATE	115	ZIP CODE		116
Los Angeles		CA		90017		

III. ENVIRONMENTAL CONTACT

CONTACT NAME			117	CONTACT PHONE		118
Soe Aung				(213) 241-3199		
CONTACT MAILING ADDRESS						
333 S. Beaudry Avenue, 20th Floor						
CITY	120	STATE	121	ZIP CODE		122
Los Angeles		CA		90017		

-PRIMARY-

IV. EMERGENCY CONTACTS

-SECONDARY-

NAME	123	NAME	128
Robert Marks		Javier Pena	
TITLE	124	TITLE	129
Principal		Plant Manager	
BUSINESS PHONE	125	BUSINESS PHONE	130
(818) 885-2300		(818) 885-2300	
24-HOUR PHONE	126	24-HOUR PHONE	131
PAGER #	127	PAGER #	132

V. ADDITIONAL LOCALLY COLLECTED INFORMATION

NUMBER OF EMPLOYEES	5	133b	FEDERAL TAX IDENTIFICATION NUMBER	133c
---------------------	---	------	-----------------------------------	------

MAILING/ BILLING INFORMATION

ADDRESS	133d	CITY	133e	STATE	133f	ZIP CODE	133g
333 S. Beaudry Avenue, 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	NAME OF DOCUMENT PREPARER	135
<i>X Robert Marks</i>	9/25/2008		Laura Maxwell	
NAME OF SIGNER (print)	136	TITLE OF SIGNER		
Robert Marks		Principal		

OFFICIAL USE ONLY	UP Form	HW	HM	ARP	AST	UST	TP	CUPA	PA
INSPECTOR	DISTRICT		DATE OF INSPECTION		DIVISION		BATTALION	STATION	

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

COVER PAGE

FACILITY IDENTIFICATION

BUSINESS NAME Cleveland High School		3	FACILITY ID # 1	
SITE ADDRESS 8140 Vanalden Avenue		103	CITY Reseda	104
			ZIP CODE	105 91335

The Consolidated Contingency Plan provides businesses a format to comply with the emergency planning requirements of the following three written hazardous materials emergency response plans required in California:

- ◁ Hazardous Materials Business Plan (HSC Chapter 6.95 Section 25504 (b) and 19 CCR Sections 2729-2732),
- ◁ Hazardous Waste Generator Contingency Plan (22 CCR Section 66264.52), and,
- ◁ Underground Storage Tank Emergency Response Plan and Monitoring Program (23 CCR Sections 2632 and 2641).

This format is designed to reduce duplication in the preparation and use of emergency response plans at the same facility, and to improve the coordination between facility response personnel and local, state and federal emergency responders during an emergency. Use the chart below to determine which sections of the Consolidated Contingency Plan need to be completed for your facility. If you are unsure as to which programs your facility is subject to, refer to the Business Activities Page.


PROGRAMS	SECTION(S) TO BE COMPLETED
Hazardous Materials Business Plan (HMBP)	Cover Page, Section I, and Site Map(s)
Hazardous Waste Generator (HWG)	Cover Page, Section I, and Site Map(s)
Underground Storage Tank (UST)	Cover Page, Sections I and II, and Site Map(s)
HMBP, HWG, UST	Cover Page, Sections I and II, and Site Map(s)

A copy of the plan shall be submitted to your local CUPA and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency. Describe below where a copy of your Contingency Plan, including the hazardous material inventories and Site Map(s), is located at your business:

Main Office

PLAN CERTIFICATION

I certify under penalty of law that I have personally examined and I am familiar with the information provided by this plan and to the best of my knowledge the information is accurate, complete, and true.

Printed Name of Owner/ Operator Robert Marks	Title of Owner/Operator Principal
Signature of Owner/ Operator 	Date 9/25/2008

We appreciate the effort of local businesses in completing these plans and will assist in every possible way. If you have any questions, please contact your local CUPA or PA.

OFFICIAL USE ONLY		DATE RECEIVED			REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA	

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

I. FACILITY IDENTIFICATION						
BUSINESS NAME Cleveland High School				3	FACILITY ID # 1	
SITE ADDRESS 8140 Vanalden Avenue		103	CITY Reseda	104	ZIP CODE 105 91335	
II. EMERGENCY CONTACTS						
PRIMARY			SECONDARY			
NAME Robert Marks	123	NAME Javier Pena	128			
TITLE Principal	124	TITLE Plant Manager	129			
BUSINESS PHONE (818) 885-2300	125	BUSINESS PHONE (818) 885-2300	130			
	126		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:						
<input type="checkbox"/> Your Name and the Telephone Number from where you are calling. <input type="checkbox"/> Exact address of the release or threatened release. <input type="checkbox"/> Date, time, cause, and type of incident (e.g. fire, air release, spill etc.) <input type="checkbox"/> Material and quantity of the release, to the extent known. <input type="checkbox"/> Current condition of the facility. <input type="checkbox"/> Extent of injuries, if any. <input type="checkbox"/> 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: Northridge Medical Center				PHONE NO: (818) 885-8500		
ADDRESS: 18300 Roscoe Blvd.						
CITY: Northridge				ZIP CODE: 91325		
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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: Ecology Control Industries	PHONE NO: (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 (<i>check all which apply</i>): <input checked="" type="checkbox"/> Verbal <input checked="" type="checkbox"/> Telephone (<i>including cellular</i>) <input checked="" type="checkbox"/> Alarm System <input checked="" type="checkbox"/> Public Address System <input checked="" type="checkbox"/> Intercom <input type="checkbox"/> Pagers <input checked="" type="checkbox"/> Portable Radio <input type="checkbox"/> Other (<i>specify</i>):	
2. <input checked="" type="checkbox"/> Evacuation map is prominently displayed throughout the facility. Yes. In the Safe School Plan	
3. <input checked="" type="checkbox"/> 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. <input checked="" type="checkbox"/> Hazardous Waste/ Hazardous Materials Storage Areas <input type="checkbox"/> Production Floor <input type="checkbox"/> Process Lines <input checked="" type="checkbox"/> Bench/ Lab <input type="checkbox"/> Waste Treatment <input type="checkbox"/> Other:	
Identify mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion. <input checked="" type="checkbox"/> Utilities <input type="checkbox"/> Sprinkler Systems <input checked="" type="checkbox"/> Cabinets <input checked="" type="checkbox"/> Shelves <input type="checkbox"/> Racks <input type="checkbox"/> Pressure Vessels <input type="checkbox"/> Gas Cylinders <input type="checkbox"/> Tanks <input type="checkbox"/> Process Piping <input checked="" type="checkbox"/> Shutoff Valves <input type="checkbox"/> 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. 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	<input type="checkbox"/> Cartridge Respirators		
	<input type="checkbox"/> Chemical Monitoring Equipment (describe)		
	<input type="checkbox"/> Chemical Protective Aprons/Coats		
	<input checked="" type="checkbox"/> Chemical Protective Boots		Rubber
	<input checked="" type="checkbox"/> Chemical Protective Gloves		Latex
	<input type="checkbox"/> Chemical Protective Suits (describe)		
	<input checked="" type="checkbox"/> Face Shields		Plastic
	<input checked="" type="checkbox"/> First Aid Kits/Stations (describe)		Standard
	<input checked="" type="checkbox"/> Hard Hats		Plastic
	<input checked="" type="checkbox"/> Plumbed Eye Wash Stations		Standard
	<input type="checkbox"/> Portable Eye Wash Kits (i.e. bottle type)		
	<input type="checkbox"/> Respirator Cartridges (describe)		
	<input checked="" type="checkbox"/> Safety Glasses/Splash Goggles		Plastic
	<input type="checkbox"/> Safety Showers		
<input type="checkbox"/> Self-Contained Breathing Apparatuses (SCBA)			
<input type="checkbox"/> Other (describe)			
Fire Extinguishing Systems	<input checked="" type="checkbox"/> Automatic Fire Slinkler Systems		Standard
	<input checked="" type="checkbox"/> Fire Alarm Boxes/Stations		Standard
	<input checked="" type="checkbox"/> Fire Extinguisher Systems (describe)		Standard
	<input type="checkbox"/> Other (describe)		
Spill Control Equipment and Decontamination Equipment	<input checked="" type="checkbox"/> Absorbents (describe)		Absorbent
	<input type="checkbox"/> Berms/Dikes (describe)		
	<input type="checkbox"/> Decontamination Equipment (describe)		
	<input type="checkbox"/> Emergency Tanks (describe)		
	<input type="checkbox"/> Exhaust Hoods		
	<input type="checkbox"/> Gas Cylinders Leak Repair Kits (describe)		
	<input type="checkbox"/> Neutralizers (describe)		
	<input type="checkbox"/> Overpack Drums		
	<input type="checkbox"/> Sumps (describe)		
	<input type="checkbox"/> Other (describe)		
Communications and Alarm Systems	<input type="checkbox"/> Chemical Alarms (describe)		
	<input checked="" type="checkbox"/> Intercoms/ PA Systems		Standard
	<input checked="" type="checkbox"/> Portable Radios		Standard
	<input checked="" type="checkbox"/> Telephones		Standard
	<input type="checkbox"/> Underground Tank Leak Detection Monitors		
<input type="checkbox"/> Other (describe)			
Additional Equipment (Use Additional Pages if Needed.)			

*Use the Location Codes (LC) from the Site Map(s) prepared for your Contingency Plan.

**Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

SITE MAP

A site plan and storage map must be included with your Contingency Plan. For relatively small facilities, these documents may be combined into one drawing. Since these drawings are intended for use in emergency response situations, larger facilities (*generally those with complex and/or multiple buildings*) should provide an overall site plan and a separate storage map for each building/storage area. A blank Facility Site Map has been provided on the reverse side of this page. You may complete that page or attach any other drawing(s) which contain(s) the information required below.

1. Site Plan: This drawing shall contain, at a minimum, the following information:

- a. Site Orientation (north, south, etc.);
- b. Approximate scale (e.g. "1 inch = 10 feet");
- c. Date the map was drawn;
- d. Locations of all buildings and other structures;
- e. Parking lots and internal roads;
- f. Hazardous materials loading/unloading areas;
- g. Outside hazardous materials storage or use areas;
- h. Storm drain and sanitary sewer drain inlets;
- i. Wells for monitoring of underground tank systems;
- j. Primary and alternate evacuation routes, emergency exits, and primary and alternate staging areas;
- k. Adjacent property use;
- l. Locations and names of adjacent streets and alleys;
- m. Access and egress points and roads.

2. Storage Map(s): The map(s) shall contain, at a minimum, the following information:

- a. General purpose of each section/area within each building (e.g. "Office Area", "Manufacturing Area", etc.);
- b. Location of each hazardous material/waste storage, dispensing, use, or handling area (e.g. *individual underground tanks, aboveground tanks, storage rooms, paint booths, etc.*). Each area shall be identified by a unique location code number, letter, or name (e.g. "1", "2", "3"; "A", "B", "C", etc.);
- c. Entrances to and exits from each building and hazardous material/waste room/area;
- d. Location of each utility emergency shut-off point (i.e. *gas, water, electric.*);
- e. Location of each monitoring system control panel (e.g. *underground tank monitoring, toxic gas monitoring, etc.*).

3. Map Legend

Item and/or Description	Location Code (LC)
Fuel Bunker	F - 6
ER Bin	G - 7
Main Electrical Shut-off	G - 8
Main Electrical Shut-off	F - 6
Main Gas Shut-off	G - 4
Main Gas Shut-off	D - 2
Main Gas Shut-off	E - 1
Main Water Shut-off	H - 6
FDC	J - 4
Hydrant	J - 6

UNIFIED PROGRAM (UP) FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

<input type="checkbox"/> ADD	<input type="checkbox"/> DELETE	<input checked="" type="checkbox"/> REVISE	REPORTING YEAR 2008
			200 Page of

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Cleveland High School			
CHEMICAL LOCATION		201	CHEMICAL LOCATION CONFIDENTIAL (EPCRA) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
FACILITY ID #		MAP# (optional)	GRID# (optional)
		See Page 18	

II. CHEMICAL INFORMATION

CHEMICAL NAME Gasoline		205	TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		206
COMMON NAME Gasoline		207	EHS* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		208
CAS# 8006-61-9		209	*If EHS is "Yes", all amounts below must be in lbs.		
FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210					
HAZARDOUS MATERIAL TYPE (Check one item only) <input type="checkbox"/> a. PURE <input checked="" type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE		211	RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		213
PHYSICAL STATE (Check one item only) <input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS		214	LARGEST CONTAINER 55 Gallons		
FED HAZARD CATEGORIES (Check all that apply) <input checked="" type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input checked="" type="checkbox"/> e. CHRONIC HEALTH 216					
AVERAGE DAILY AMOUNT 80 Gallons		217	MAXIMUM DAILY AMOUNT 165 Gallons		218
			ANNUAL WASTE AMOUNT N/A		219
			STATE WASTE CODE N/A		220
UNITS* (Check one item only) <input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS				DAYS ON SITE: 365	
		* If EHS, amount must be in pounds.			
STORAGE CONTAINER					
<input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM		<input type="checkbox"/> i. FIBER DRUM		<input type="checkbox"/> m. GLASS BOTTLE	
<input type="checkbox"/> f. CAN		<input type="checkbox"/> j. BAG		<input type="checkbox"/> n. PLASTIC BOTTLE	
<input type="checkbox"/> g. CARBOY		<input type="checkbox"/> k. BOX		<input type="checkbox"/> o. TOE BIN	
<input type="checkbox"/> h. SILO		<input type="checkbox"/> l. CYLINDER		<input type="checkbox"/> p. TANK WAGON	
STORAGE PRESSURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT 224					
STORAGE TEMPERATURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> c. CRYOGENIC 225					

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
100	Gasoline	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	mixture
0 - 50	Miscellaneous Hydrocarbons	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	mixture
0 - 25	Xylene, mixed isomers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1330-20-7
0 - 25	Toluene	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	108-88-3
0 - 5	1, 2, 4-Trimethyl Benzene	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	95-63-6

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION
--

If EPCRA, Please Sign Here
(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY		DATE RECEIVED			REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA	

UNIFIED PROGRAM (UP) FORM HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

(one page per material per building or area)

<input type="checkbox"/> ADD	<input type="checkbox"/> DELETE	<input checked="" type="checkbox"/> REVISE	REPORTING YEAR 2008	200	Page of
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I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA -- Doing Business As) Cleveland High School					
CHEMICAL LOCATION			201	CHEMICAL LOCATION CONFIDENTIAL (EPCRA) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 202	
FACILITY ID #				MAP# (optional) See Page 18	GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME CITGO No. 2 Diesel Fuel, Low Sulfur, All Grades			205	TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 206	
COMMON NAME Diesel Fuel			207	EHS* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 208	
CAS# 68476-24-6			209	*If EHS is "Yes", all amounts below must be in lbs. 210	
FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 213					
HAZARDOUS MATERIAL TYPE (Check one item only) <input type="checkbox"/> a. PURE <input checked="" type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE			211	RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 215	
PHYSICAL STATE (Check one item only) <input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS			214	LARGEST CONTAINER 55 Gallons 216	
FED HAZARD CATEGORIES (Check all that apply) <input checked="" type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input checked="" type="checkbox"/> e. CHRONIC HEALTH 217					
AVERAGE DAILY AMOUNT 25 Gallons		MAXIMUM DAILY AMOUNT 55 Gallons		ANNUAL WASTE AMOUNT N/A	
UNITS* (Check one item only) <input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS				STATE WASTE CODE N/A	
STORAGE CONTAINER <input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> f. CAN <input type="checkbox"/> g. CARBOY <input type="checkbox"/> h. SILO <input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> j. BAG <input type="checkbox"/> k. BOX <input type="checkbox"/> l. CYLINDER <input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> n. PLASTIC BOTTLE <input type="checkbox"/> o. TOE BIN <input type="checkbox"/> p. TANK WAGON <input type="checkbox"/> q. RAIL CAR <input type="checkbox"/> r. OTHER 221			DAYS ON SITE: 365 222		
STORAGE PRESSURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT 223					
STORAGE TEMPERATURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> c. CRYOGENIC 224					

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 - 10 226	Nonane, all isomers 27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 228	Mixture 229
0 - 2 230	Trimethylbenzenes, all isomers 31	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 232	25551-13-7 233
0 - 2 234	Napthalene 35	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 236	91-20-3 237
0 - 2 238	Biphenyl (Diphenyl) 39	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 240	92-52-4 241
0 - 1 242	Cumene 43	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 244	98-82-8 245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information. 246

ADDITIONAL LOCALLY COLLECTED INFORMATION
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If EPCRA, Please Sign Here
(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY		DATE RECEIVED			REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA	



Business No.: FA0013654

Date:

Business Name: LAUSD - CLEVELAND HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH
LOS ANGELES, CA 90017

Last Inspection Date: 07/01/2013
Permit Date:

RFI Request No:

Storage Address: 8140 N VANALDEN AVE

RFI Requestor Name:

Chemical & Ingredients

DIESEL

DIESEL

-

-

GASOLINE

GASOLINE

-

-

-

AMMONIA(In-active)

Inactivated on: 12/31/1991

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
DIESEL	a	55			b
-		0	0		
-					
GASOLINE	b	165			b
-		0	0		
-					
-		0	0		
AMMONIA(In-active)	a	6	9		



Business No.: FA0013654
 Business Name: LAUSD - CLEVELAND HIGH SCHOO
 Business Mailing Address: 333 S BEAUDRY AVE 28TH
 LOS ANGELES, CA 90017
 Storage Address: 8140 N VANALDEN AVE

Date:
 Last Inspection Date: 07/01/2013
 Permit Date:
 RFI Request No:
 RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
BORAXO AND LURON(In-active) Inactivated on: 12/31/1991	a	50	25		
-		0	0		
CARPET CLEANER(In-active) Inactivated on: 12/31/1991	a	4	6		
-		0	0		
CLEANER-AUTO PARTS(In-active) Inactivated on: 12/31/1991	a	2	3		



Business No.: FA0013654
 Business Name: LAUSD - CLEVELAND HIGH SCHOO
 Business Mailing Address: 333 S BEAUDRY AVE 28TH
 LOS ANGELES, CA 90017
 Storage Address: 8140 N VANALDEN AVE

Date:
 Last Inspection Date: 07/01/2013
 Permit Date:
 RFI Request No:
 RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	50	75		
-		0	0		
GREASE, MULTI PURPOSE(In-active) Inactivated on: 09/16/1997	a	625	950		b
-		0	0		
HAND SOAP(In-active) Inactivated on: 12/31/1991	a	15	23		



Business No.: FA0013654

Date:

Business Name: LAUSD - CLEVELAND HIGH SCHOO
Business Mailing Address: 333 S BEAUDRY AVE 28TH
LOS ANGELES, CA 90017

Last Inspection Date: 07/01/2013
Permit Date:

RFI Request No:

Storage Address: 8140 N VANALDEN AVE

RFI Requestor Name:

Chemical & Ingredients

Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
----------------	-------------------	------------	----------------------	----------------

-	0	0		
---	---	---	--	--

HYDRAULIC OIL (In-active)
Inactivated on: 04/07/1995

a	80			b
---	----	--	--	---

-	0	0		
---	---	---	--	--

MISS JULIE SUE BLEACH(In-active)
Inactivated on: 12/31/1991

a	3	5		
---	---	---	--	--

-	0	0		
---	---	---	--	--

OIL(In-active)
Inactivated on: 12/31/1991

a	25	38		
---	----	----	--	--



Business No.: FA0013654
 Business Name: LAUSD - CLEVELAND HIGH SCHOO
 Business Mailing Address: 333 S BEAUDRY AVE 28TH
 LOS ANGELES, CA 90017
 Storage Address: 8140 N VANALDEN AVE

Date:
 Last Inspection Date: 07/01/2013
 Permit Date:
 RFI Request No:
 RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
OXYGEN(In-active) Inactivated on: 06/20/2000	a	251			c
-		0	0		
UNI-KLEEN(In-active) Inactivated on: 12/31/1991	a	4	6		
-		0	0		
WD-40(In-active) Inactivated on: 12/31/1991	a	72	108		



Business No.: FA0013654
 Business Name: LAUSD - CLEVELAND HIGH SCHOO
 Business Mailing Address: 333 S BEAUDRY AVE 28TH
 LOS ANGELES, CA 90017
 Storage Address: 8140 N VANALDEN AVE

Date: 12/10/2013
 Last Inspection Date: 12/10/2013
 Permit Date: 07/01/2013
 RFI Request No:
 RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
DIESEL	a	55			b
-		0	0		
-					
GASOLINE	b	165			b
-		0	0		
-		0	0		
-		0	0		
AMMONIA(In-active)	a	6	9		

Inactivated on: 12/31/1991



Business No.: FA0013654
 Business Name: LAUSD - CLEVELAND HIGH SCHOO
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 RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
BORAXO AND LURON(In-active) Inactivated on: 12/31/1991	a	50	25		
-		0	0		
CARPET CLEANER(In-active) Inactivated on: 12/31/1991	a	4	6		
-		0	0		
CLEANER-AUTO PARTS(In-active) Inactivated on: 12/31/1991	a	2	3		



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 RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	50	75		
-		0	0		
GREASE, MULTI PURPOSE(In-active) Inactivated on: 09/16/1997	a	625	950		b
-		0	0		
HAND SOAP(In-active) Inactivated on: 12/31/1991	a	15	23		



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Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
HYDRAULIC OIL (In-active) Inactivated on: 04/07/1995	a		80		b
-		0	0		
MISS JULIE SUE BLEACH(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
OIL(In-active) Inactivated on: 12/31/1991	a	25	38		



Business No.: FA0013654
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-		0	0		
OXYGEN(In-active) Inactivated on: 06/20/2000	a	251			c
-		0	0		
UNI-KLEEN(In-active) Inactivated on: 12/31/1991	a	4	6		
-		0	0		
WD-40(In-active) Inactivated on: 12/31/1991	a	72	108		

37085 2/10-13-11

NOFA # N

HAZARDOUS MATERIALS BUSINESS PLAN CERTIFICATION FORM

For Use by Unidocs Member Agencies or where approved by your Local Jurisdiction
Authority Cited: Health and Safety Code §25503.3(c); 19 CCR §2729.5(c)

To: Agency Name: Los Angeles County Fire Department - Hazardous Materials Unit
Agency Mailing Address: 5825 Rickenbacker Road
Commerce, CA 90040

Pursuant to Section 25503.3(c) of California Health and Safety Code (HSC), the Hazardous Materials Business Plan (HMBP) certification described below is hereby submitted for the following facility:

Facility Name: CA-2512 WEST VALLEY HUB 9 TIME WARNER CABLE, INC
Facility Street Address: 18913 1/2 STRATHERN STREET City: RESEDA
Date of Current HMBP: 2010/02/26

Received
MAR 01 2011

I certify that: (Check the appropriate box.)

HHMD - Data Ops

- I have personally reviewed the Hazardous Materials Business Plan currently on file with your agency and certify that the HMBP is complete and accurate. (See bottom of page for details.) If this facility is subject to Federal Emergency Planning and Community Right to Know Act (EPCRA) reporting requirements, I have submitted the following documents with this Certification Form: Unified Program Consolidated Form (UPCF) Business Activities page; UPCF Business Owner/Operator Identification page with current signature and date; Hazardous Materials Inventory Statement page(s) with an original signature, photocopy of an original signature, or signature stamp on each page for all Extremely Hazardous Substances (EHS) handled at or above their Federal Threshold Planning Quantity (TPQ) or 500 pounds, whichever is less.
- or
- Revisions to the Hazardous Materials Business Plan are necessary. The HMBP as revised is complete and accurate and is being implemented. A copy of the revisions has been electronically submitted or is enclosed with this Certification along with a signed UPCF Business Owner/Operator Identification page and UPCF Business Activities page if the HMBP revision include changes to the Hazardous Materials Inventory Statement.

OWNER/OPERATOR CERTIFICATION: I hereby certify under penalty of law that, based upon my inquiry of those individuals responsible for obtaining the information reported above, I believe that the submitted information is true, accurate, and complete. I understand that a revised HMBP must be submitted within 30 days of any change in this facility's storage or handling of hazardous materials that would require updating of the HMBP.

Name of Owner/Operator (Print): Shane Noreen c/o Time Warner Cable Inc Title: Project Engineer
Phone: NONE Signature: [Signature] Date: 2/21/2011

- By checking the upper box on this form, you are certifying that:
- The information contained in the HMBP most recently submitted is complete, accurate, and up-to-date; and
 - There has been no change in the quantity of any hazardous material as reported in the most recently submitted Hazardous Materials Inventory forms; and
 - The facility has not begun handling any hazardous material in a HMBP reportable quantity that is not currently listed in the Hazardous Materials Inventory; and
 - The most recently submitted HMBP contains the information required by Section 11022 of Title 42 of the United States Code; and
 - There have been no substantial changes in the facility's operations that would require revision of the current HMBP.

**UNIFIED PROGRAM CONSOLIDATED FORM
FACILITY INFORMATION
BUSINESS ACTIVITIES**

Page 1 of 1

I. FACILITY IDENTIFICATION

FACILITY ID # <i>(Agency Use Only)</i>																					1. EPA ID # (Hazardous Waste Only)	2.
BUSINESS NAME <i>(Same as Facility Name or DBA - Doing Business As)</i>																						3.
CA-2512 WEST VALLEY HUB 9 TIME WARNER CABLE, INC																						
BUSINESS SITE ADDRESS 18913 1/2 STRATHERN STREET																						103.
BUSINESS SITE CITY RESEDA														104.	CA	ZIP CODE 91335						105.

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 UPCF...
<p>A. HAZARDOUS MATERIALS 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 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?</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 4. HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION</p>
<p>B. CalARP REGULATED SUBSTANCES Have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release Prevention Program (CalARP)?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 4a. Coordinate with your local agency responsible for CalARP.</p>
<p>C. UNDERGROUND STORAGE TANKS (USTs) Own or operate underground storage tanks?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 5. UST FACILITY (Formerly SWRCB Form A) UST TANK (one page per tank) (Formerly Form B)</p>
<p>D. ABOVE GROUND PETROLEUM STORAGE Own or operate ASTs above these thresholds: Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 8. No form required to CUPAs</p>
<p>E. HAZARDOUS WASTE Generate hazardous waste? Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC §25143.2)? Treat hazardous waste onsite? Perform treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)? Consolidate hazardous waste generated at a remote site? Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite? 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? Serve as a Household Hazardous Waste (HHW) Collection site?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 9. EPA ID NUMBER - provide at top of this page</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 10. RECYCLABLE MATERIALS REPORT (one per recycler)</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 11. ONSITE HAZARDOUS WASTE TREATMENT - FACILITY ONSITE HAZARDOUS WASTE TREATMENT - UNIT (one page per unit)</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 12. CERTIFICATION OF FINANCIAL ASSURANCE</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 13. REMOTE WASTE CONSOLIDATION SITE ANNUAL NOTIFICATION</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14. HAZARDOUS WASTE TANK CLOSURE CERTIFICATION</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14a. Obtain federal EPA ID Number, file Biennial Report (EPA Form 8700-13A/B), and satisfy requirements for RCRA Large Quantity Generator.</p> <p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14b. See CUPA for required forms.</p>
<p>F. LOCAL REQUIREMENTS</p>	<p>(You may also be required to provide additional information by your CUPA or local agency.)</p>

15.

**UNIFIED PROGRAM CONSOLIDATED FORM
FACILITY INFORMATION
BUSINESS OWNER/OPERATOR IDENTIFICATION**

Page 1 of 1

I. IDENTIFICATION

FACILITY ID # <i>(Agency Use Only)</i>		BEGINNING DATE ^{100.} 2011/01/01		ENDING DATE ^{101.} 2011/12/31	
BUSINESS NAME <i>(Same as Facility Name or DBA - Doing Business As)</i> ^{3.} CA-2512 WEST VALLEY HUB 9 TIME WARNER CABLE, INC				BUSINESS PHONE ^{102.} 818-700-5969	
BUSINESS SITE ADDRESS ^{103.} 18913 1/2 STRATHERN STREET				BUSINESS FAX ^{102a.} N/A	
BUSINESS SITE CITY ^{104.} RESEDA		STATE ^{105.} CA	ZIP CODE ^{105.}	COUNTY ^{108.} Los Angeles	
DUN & BRADSTREET ^{106.}		PRIMARY SIC ^{107.} 4841	PRIMARY NAICS ^{107a.} 515210		
BUSINESS MAILING ADDRESS ^{108a.} 18913 1/2 STRATHERN STREET					
BUSINESS MAILING CITY ^{108b.} RESEDA		STATE ^{108c.} CA	ZIP CODE ^{108d.} 91335		
BUSINESS OPERATOR NAME ^{109.} TIME WARNER CABLE, INC.			BUSINESS OPERATOR PHONE ^{110.} 818-700-5969		

II. BUSINESS OWNER

OWNER NAME ^{111.} TIME WARNER CABLE, INC.		OWNER PHONE ^{112.} 704-731-3807			
OWNER MAILING ADDRESS ^{113.} 7800 CRESCENT EXECUTIVE DRIVE					
OWNER MAILING CITY ^{114.} CHARLOTTE		STATE ^{115.} NC	ZIP CODE ^{116.} 28217		

III. ENVIRONMENTAL CONTACT

CONTACT NAME ^{117.} MARK BOONE		CONTACT PHONE ^{118.} 704-731-3807			
CONTACT MAILING ADDRESS ^{119.} 7800 CRESCENT EXECUTIVE DRIVE		CONTACT EMAIL ^{119a.} Mark.Boone@TWCable.com			
CONTACT MAILING CITY ^{120.} CHARLOTTE		STATE ^{121.} NC	ZIP CODE ^{122.} 28217		

-PRIMARY-

IV. EMERGENCY CONTACTS

-SECONDARY-

NAME ^{123.} CHARLES BARRETT		NAME ^{128.} Regional Network Operations Center			
TITLE ^{124.} HEADEND MANAGER		TITLE ^{129.}			
BUSINESS PHONE ^{125.} 818-700-5969		BUSINESS PHONE ^{130.} 888-766-2521 x1			
24-HOUR PHONE ^{126.} 818-355-8141		24-HOUR PHONE ^{131.} 888-766-2521 x1			
PAGER # ^{127.} N/A		PAGER # ^{132.} N/A			

ADDITIONAL LOCALLY COLLECTED INFORMATION: ^{133.}

Billing Address: CHARLES BARRETT, 18913 1/2 STRATHERN STREET, RESEDA, CA 91335

Property Owner: _____ Phone No.: _____

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.} 2011/02/21	NAME OF DOCUMENT PREPARER ^{135.} Shane Noreen c/o Time Warner Cable Inc	
NAME OF SIGNER (print) ^{136.} Shane Noreen c/o Time Warner Cable Inc		TITLE OF SIGNER ^{137.} Project Engineer		

**UNIFIED PROGRAM CONSOLIDATED FORM
HAZARDOUS MATERIALS
HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION**

(One page per material per building or area)

ADD

DELETE

REVISE

200.

Page **1** of **2**

I. FACILITY INFORMATION

BUSINESS NAME (Same as Facility Name or DBA – Doing Business As) 3.

CA-2512 WEST VALLEY HUB 9 TIME WARNER CABLE, INC

CHEMICAL LOCATION 201.

CHEMICAL LOCATION CONFIDENTIAL EPCRA 202.

YES NO

FACILITY ID #
(Agency Use Only)

MAP # (Optional) 203.

GRID # (Optional) 204.

J-8

II. CHEMICAL INFORMATION

CHEMICAL NAME 205.

Lead

TRADE SECRET 206.

If subject to EPCRA, refer to instructions

Yes No

COMMON NAME 207.

Lead (Battery Electrode)

EHS* 208.

Yes No

CAS# 209.

7439-92-1

*If EHS is "Yes," all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210.

HAZARDOUS MATERIAL 211.

TYPE (Check one item only)

a. PURE b. MIXTURE c. WASTE

RADIOACTIVE 212.

Yes No

CURIES 213.

PHYSICAL STATE 214.

(Check one item only)

a. SOLID b. LIQUID c. GAS

LARGEST CONTAINER 215.

3.14

FED HAZARD CATEGORIES 216.

(Check all that apply)

a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217.

401.92

MAXIMUM DAILY AMOUNT 218.

401.92

ANNUAL WASTE AMOUNT 219.

STATE WASTE CODE 220.

UNITS* 221.

(Check one item only)

a. GALLONS b. CUBIC FEET c. POUNDS d. TONS

* If EHS, amount must be in pounds.

DAYS ON SITE 222.

365

STORAGE CONTAINER 223.

- | | | |
|--|--|--|
| <input type="checkbox"/> a. ABOVEGROUND TANK | <input type="checkbox"/> f. CAN | <input type="checkbox"/> k. BOX |
| <input type="checkbox"/> b. UNDERGROUND TANK | <input type="checkbox"/> g. CARBOY | <input type="checkbox"/> l. CYLINDER |
| <input type="checkbox"/> c. TANK INSIDE BUILDING | <input type="checkbox"/> h. SILO | <input type="checkbox"/> m. GLASS BOTTLE |
| <input type="checkbox"/> d. STEEL DRUM | <input type="checkbox"/> i. FIBER DRUM | <input type="checkbox"/> n. PLASTIC BOTTLE |
| <input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM | <input type="checkbox"/> j. BAG | <input type="checkbox"/> o. TOTE BIN |

STORAGE PRESSURE 224.

a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

STORAGE TEMPERATURE 225.

a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC

% WT 226.

HAZARDOUS COMPONENT (For mixture or waste only) 227.

EHS 228.

CAS # 229.

1. 230.

Yes No 231.

2. 232.

Yes No 233.

3. 234.

Yes No 235.

4. 236.

Yes No 237.

5. 238.

Yes No 239.

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246.

DOT Hazard Class:

If EPCRA, Please Sign Here.

2012 HAZARDOUS MATERIALS BUSINESS
PLAN UPDATE

Time Warner Cable Inc.

290 Harbor Drive
Stamford, CT 06902

37085
Ed 1-19-12
chemicals in
the 55 gal

CA-2512_WEST VALLEY HUB 9_TIME WARNER CABLE, INC.

(Facility Name / ID)

18913 1/2 STRATHERN STREET

(Facility Address)

RESEDA

(Facility City)

LOS ANGELES

(Facility County)

Received

DEC 30 2011

HHMD - Data Ops

POST THIS DOCUMENT ON-SITE SO IT WILL BE AVAILABLE IN THE EVENT OF GOVERNMENT
AGENCY INSPECTION, SITE ASSESSMENT OR AUDIT.



Infrastructure, environment, buildings

320 Commerce, Suite 200 ♦ Irvine, California 92602 ♦ 714-730-9052 Fax 714-730-9345



**LOS ANGELES COUNTY FIRE DEPARTMENT
HEALTH HAZARDOUS MATERIALS DIVISION
5825 Rickenbacker Road, Commerce, CA 90040**



2012 BUSINESS PLAN ANNUAL RENEWAL CERTIFICATION

Hazardous Materials Inventory Statement (HMIS)

I certify that the attached HMIS reflects the handling of hazardous materials for the reporting year in accordance with the following conditions: (Please check all that apply).

- Delete:** Write "delete" on the HMIS next to any previously disclosed hazardous materials that are no longer used.
- Revise:** Write the correct amounts, locations, or container type on the HMIS to reflect the accuracy of any previously reported hazardous materials.
- EPCRA Compliance:** Fill in the EPCRA field with your signature on the HMIS for any hazardous material type and quantity identified on 40 CFR Part 355, Appendix A—The List of Extremely Hazardous Substances and Their Threshold Planning Quantities.
- Add:** Complete one **Hazardous Materials Inventory—Chemical Description Form** to add each hazardous materials that you have not previously disclosed. Submit one form per chemical.
- No Change:** **Hazardous Materials Inventory Statement (HMIS)** is accurate and complete.

Consolidated Contingency Plan (CCP)

I certify that I have a current and accurate CCP on file. To ensure your agency has an accurate and current CCP, the following action has been taken:

- For a new handler:** if the Owner/Operator page indicates "CCP Certification required", complete and submit a new CCP.
- Modification:** Significant changes in facility personnel or operations required a revision of the CCP. Complete and submit changes of your CCP with this form. Indicate changes by crossing out old information, and writing in the correct information.
- Lost:** Complete and submit any parts of your CCP that were lost or damaged.
- No Change:** There have not been any significant changes in the facility's personnel or operations that require a revision to the current CCP. (CCP needs to be reviewed and certified at least once every 3 years after the initial submittal)

Received
DEC 30 2011
HHMD - Data Ops

Cal-ARP Program

I reviewed the threshold quantities in Section 2770.5 of Title 19 of the California Code of Regulations and certify that any regulated substance on the attached HMIS accords with the following registration requirement: Not Applicable to this facility.

- Add:** Complete the **Cal-ARP Program Regulated Substance Registration** form only if the regulated substance is at or above the threshold quantity (TQ). Submit one form per chemical.
- No Change:** The previously submitted registration for regulated substance(s) is accurate.

ANNUAL CERTIFICATION

I certify that the information submitted herein is complete and accurate. Also, no hazardous materials subject to the inventory requirements of Chapter 6.95 of the Health and Safety Code are being handled that are not listed on the most recently submitted annual inventory form.

ARCADIS US, Inc.	Lesley Schafer - Agent for Time Warner	
Print Name of Document Preparer	Print Name of Owner/Operator	Signature of Owner/Operator
Time Warner Cable, Inc.	18913 1/2 Strathern St, Reseda	12/29/11
Business Name	Site Address	Date

Submit this packet to the above address before January 2, 2012 to avoid a late submittal penalty of \$331 or other enforcement options. Certified Mail advised. Do not submit any fees with this packet. Obtain unified program forms from our website at <http://www.fire.lacounty.gov/HealthHazMat/HHMDForms.asp> or from our Data Operations Unit at (323) 890-4000.

BUSINESS OWNER/OPERATOR IDENTIFICATION (LACoCUPA Form 2730)

NEW BUSINESS OUT OF BUSINESS REVISE/UPDATE (EFFECTIVE: 1/1/2012)

PAGE 1 OF 1

I. IDENTIFICATION

FACILITY ID#	1	BEGINNING DATE	100	ENDING DATE	101
		2012/01/01		2012/12/31	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)			3	BUSINESS PHONE	
CA-2512 WEST VALLEY HUB 9 TIME WARNER CABLE, INC.				818-700-5969	
BUSINESS SITE ADDRESS					
18913 1/2 STRATHERN STREET					
CITY RESEDA	104	CA		ZIP CODE 91335	
DUN & BRADSTREET 784174976	106	SIC CODE (4 digit #) 4841			
COUNTY LOS ANGELES	108	UNINCORPORATED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		133a.	
BUSINESS OPERATOR NAME			109	BUSINESS OPERATOR PHONE	
TIME WARNER CABLE, INC.				818-700-5969	

II. BUSINESS OWNER

OWNER NAME		111	OWNER PHONE		112
TIME WARNER CABLE, INC.			704-731-3807		
OWNER MAILING ADDRESS					
7800 CRESCENT EXECUTIVE DRIVE					
CITY CHARLOTTE	114	STATE NC	115	ZIP CODE 28217	

III. ENVIRONMENTAL CONTACT

CONTACT NAME		117	CONTACT PHONE		118
MARK BOONE			704-731-3807		
CONTACT MAILING ADDRESS					
7800 CRESCENT EXECUTIVE DRIVE					
CITY CHARLOTTE	120	STATE NC	121	ZIP CODE 28217	

IV. EMERGENCY CONTACTS

PRIMARY		SECONDARY	
NAME CHARLES BARRETT	123	NAME Regional Network Operations Center	128
TITLE HEADEND MANAGER	124	TITLE N/A	129
BUSINESS PHONE 818-700-5969	125	BUSINESS PHONE 888-766-2521 x1	130
24-HOUR PHONE	126	24-HOUR PHONE 888-766-2521 x1	131
PAGER # N/A	127	PAGER # N/A	132
E-MAIL ADDRESS (if any) N/A	133b	E-MAIL ADDRESS (if any) N/A	133b

V. ADDITIONAL LOCALLY COLLECTED INFORMATION

FEDERAL TAX IDENTIFICATION NUMBER		133c	NO. OF EMPLOYEES N/A	133d
NAME, POSITION, AND DATE OF BIRTH N/A			BUSINESS CODE N/A	133e
DRIVER'S LICENSE NUMBER AND STATE N/A				

MAILING/ BILLING INFORMATION

ADDRESS	133f	CITY	133g	STATE	133h	ZIP CODE	133i
18913 1/2 STRATHERN STREET		RESEDA		CA		91335	

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
		2011/12/30		ARCADIS U.S., INC.		
NAME OF SIGNER (print)		TITLE OF SIGNER				
Lesley Schafer, Agent for Time Warner Cable, Inc.		Regulatory Compliance Specialist				

OFFICIAL USE ONLY		UP Form	HW	HM	ARP	APST	UST	TP	CUPA	PA
INSPECTOR	DISTRICT	DATE OF INSP.		DIVISION		BATTALION		STATION		

UNIFIED PROGRAM (UP) FORM

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION (LACoCUPA Form 2731)

(one page per material per building or area)

ADD
 DELETE
 REVISE
 REPORTING YEAR 2012
 200
 Page 1 of 1

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As)		3
CA-2512 WEST VALLEY HUB 9 TIME WARNER CABLE, INC.		
CHEMICAL LOCATION	201	SUB LOCATION
		199
CHEMICAL LOCATION CONFIDENTIAL (EPCRA)		202
		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
FACILITY ID #		MAP# (optional)
		203
		GRID# (optional)
		204

II. CHEMICAL INFORMATION

CHEMICAL NAME	205	TRADE SECRET	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	206	
If Subject to EPCRA, refer to instructions					
COMMON NAME	207	EHS*	<input type="checkbox"/> Yes <input type="checkbox"/> No	208	
LEAD ACID BATTERIES		RS*	<input type="checkbox"/> Yes <input type="checkbox"/> No	246a	
CAS#	209	*If EHS or RS is "Yes", all amounts below must be in lbs.			
FIRE CODE HAZARD CLASSES (Complete if required by CUPA) CORROSIVE					
210					
HAZARDOUS MATERIAL TYPE (Check one item only)	211	RADIOACTIVE	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	212	
<input type="checkbox"/> a. PURE <input checked="" type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE		CURIES		N/A	
PHYSICAL STATE (Check one item only)	214	LARGEST CONTAINER	0.21		
<input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS					
FED HAZARD CATEGORIES (Check all that apply)	216				
<input type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input checked="" type="checkbox"/> e. CHRONIC HEALTH					
AVERAGE DAILY AMOUNT	217	MAXIMUM DAILY AMOUNT	218	ANNUAL WASTE AMOUNT	
27.28		27.28		N/A	
				STATE WASTE CODE	
				N/A	
UNITS* (Check one item only)	221			DAYS ON SITE:	
<input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS	* If EHS, amount must be in pounds.			365	
STORAGE CONTAINER	223				
<input type="checkbox"/> a. ABOVE GROUND TANK <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> c. TANK INSIDE BUILDING <input type="checkbox"/> d. STEEL DRUM	<input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> f. CAN <input type="checkbox"/> g. CARBOY <input type="checkbox"/> h. SILO	<input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> j. BAG <input type="checkbox"/> k. BOX <input type="checkbox"/> l. CYLINDER	<input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> n. PLASTIC BOTTLE <input type="checkbox"/> o. TOTE BIN <input type="checkbox"/> p. TANK WAGON		
STORAGE PRESSURE	224				
<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT					
STORAGE TEMPERATURE	225				
<input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC					
%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	RS	CAS #	
1					
40%	SULFURIC ACID	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes	7664-93-9	
2		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes		
3		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes		
4		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes		
5		<input type="checkbox"/> Yes	<input type="checkbox"/> Yes		

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION

If EPCRA, Please Sign Here
 (Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY		DATE RECEIVED			REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA	

L 55 yal

City of LOS ANGELES
CALIFORNIA



DEPARTMENT OF FIRE
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Los Angeles Fire Department Data Entry Instruction Form (DEIF)



Date:	1/9/2009	New Business	<input type="checkbox"/>
Inspector's / Member:	SAMSON, JEAN C.	Fire Station:	073
Facility ID:	FA0037085	HM Inspector No.:	EE0000038
Business Name:		UST Inspector No.:	
TIME WARNER WEST VALLEY HUB 9		Occ. Jurisdiction:	073

DATA ENTRY INSTRUCTION: *Check appropriate boxes*

- Changes on BP-1
- Changes on BP-8
- Changes on Attached CUPA Form(s)
- UST Adandon Sheets
- UST Installation Sheets
- Enter Inventory On Attached CUPA Forms
- Inactive Business *Journal Entry Should Be Included*
Reason:
- Other Instruction: *For Examples: Combine Business Under One BP Number*
DELINQUENT INSP. \$316.; VA & DA W/ MARCO SANCHEZ (818) 700-5969.

Data Entry Name: Joy E

Date: 5-12-2011



BUSINESS INFORMATION

Printed on: 01/06/2009

316.

INSTRUCTIONS : Please complete and sign this form; your signature indicates that the information, as supplied, is accurate.

Business Number: FA0037085 This is your current business plan number. This number must appear on all business plan forms!
Business Name : TIME WARNER WEST VALLEY HUB 9

Address Where Business is Conducted : 18913 1/2 STRATHERN ST,
RESEDA, CA 91355
Mailing Address : 9260 TOPANGA CANYON BLVD
CHATSWORTH, CA 91311

Other On-Site Addresses:

18913 1/2 STRATHERN ST

Briefly describe the nature of the hazardous materials operations:

Number of Employees: 0
SIC Code : 4841

Dun & Bradstreet Number:

CONTACT	WORK #	24 HOUR #	PAGER #	OTHER #
Owner Name: TIME WARNER CABLE INC	(818) 700-5969			
On-Site Manager:				
Emergency Contact: KEITH VAUGHN	(818) 700-5969			
2nd Emergency Contact: RNOG	(888) 766-2521	(888) 766-2521		

Signature of Legal Business Owner/Authorized Representative

Title

Date

Business Plan has been reviewed and approved: _____

Office Use Only Insp. ID: 404 Date: 1/4/09 D/E ID: _____ Date: _____ TS: _____



**Hazardous Materials System
BP-8: Computer Listing of Inventory Submitted
Inspection Responsibility: VIU**

Business No : FA0037085
First In : 073
Block # :

Printed on: 1/6/2009

Business Name : TIME WARNER WEST VALLEY HUB 9
Business Address: 18913 1/2 STRATHERN ST,
RESEDA, CA 91355
Business Owner : TIME WARNER CABLE INC
SIC Code : 4841
On-Site Manager :
of Employees :
Emergency Contact : KEITH VAUGHN
Sq. Ft. of Facility : N/A
Alt Emergency Contact: RNOC
Permit Date :
Next Inspection Date:

LOCATION: NFPA-704: N/A Products: 1

Chemical Name
DIESEL FUEL #2
Hazard Class: CL CMBSTBLE LQDS CLSS II, III-A, III-B
Ingredients
HM Type
PURE
Max %
Max Quantity on Hand
225.00 GALLONS
Storage Type:
CAS #
State
LIQUID
Fed Haz Catg.
FIRE

LOCATION: NFPA-704: N/A Products: 2

Chemical Name
LEAD
Hazard Class: TM TOXIC GASES, LIQUIDS, AND SOLIDS
Ingredients
HM Type
PURE
Max %
Max Quantity on Hand
402.00 POUNDS
Storage Type:
CAS #
State
SOLID
Fed Haz Catg.
~~DELAZED HEALTH~~
Chronic

Chemical Name
SULFURIC ACID
Hazard Class: C CORROSIVES ACIDS, BASES (ALKALIS)
Ingredients
HM Type
MIXTURE
Max %
Max Quantity on Hand
99.00 POUNDS
Storage Type:
CAS #
State
LIQUID
Fed Haz Catg.
~~DELAZED HEALTH~~
Acute

My signature indicates that I have verified and agreed with the types and quantities of hazardous materials at this address

INSP. SIG:
INSP. DATE: 1/6/09
BUS. REP. SIG: _____
DATE: _____

MARCO SANCHEZ

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

COVER PAGE

FACILITY IDENTIFICATION			
BUSINESS NAME	TIME WARNER WEST VALLEY HUB #9		FACILITY ID # 1
SITE ADDRESS	10913 1/2 STEATHORN	CITY	RESEDA
	103	104	ZIP CODE 105
			91353

The Consolidated Contingency Plan provides businesses a format to comply with the emergency planning requirements of the following three written hazardous materials emergency response plans required in California:

- ❖ Hazardous Materials Business Plan (HSC Chapter 6.95 Section 25504 (b) and 19 CCR Sections 2729-2732),
- ❖ Hazardous Waste Generator Contingency Plan (22 CCR Section 66264.52), and,
- ❖ Underground Storage Tank Emergency Response Plan and Monitoring Program (23 CCR Sections 2632 and 2641).

This format is designed to reduce duplication in the preparation and use of emergency response plans at the same facility, and to improve the coordination between facility response personnel and local, state and federal emergency responders during an emergency. Use the chart below to determine which sections of the Consolidated Contingency Plan need to be completed for your facility. If you are unsure as to which programs your facility is subject to, refer to the Business Activities Page.

PROGRAMS	SECTION(S) TO BE COMPLETED
Hazardous Materials Business Plan (HMBP)	Cover Page, Section I, and Site Map(s)
Hazardous Waste Generator (HWG)	Cover Page, Section I, and Site Map(s)
Underground Storage Tank (UST)	Cover Page, Sections I and II, and Site Map(s)
HMBP, HWG, UST	Cover Page, Sections I and II, and Site Map(s)

A copy of the plan shall be submitted to your local CUPA and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency. Describe below where a copy of your Contingency Plan, including the hazardous material inventories and Site Map(s), is located at your business:

--

PLAN CERTIFICATION	
<i>I certify under penalty of law that I have personally examined and I am familiar with the information provided by this plan and to the best of my knowledge the information is accurate, complete, and true.</i>	
Printed Name of Owner/ Operator	Title of Owner/Operator
Signature of Owner/ Operator	Date

We appreciate the effort of local businesses in completing these plans and will assist in every possible way. If you have any questions, please contact your local CUPA or PA.

OFFICIAL USE ONLY			DATE RECEIVED	REVIEWED BY
DIV	BN	STA	OTHER	DISTRICT
				CUPA
				PA

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

ADVISORY

The site-specific Contingency Plan is the facility's plan for dealing with emergencies and shall be implemented immediately whenever there is a fire, explosion, or release of hazardous materials that could threaten human health and/or the environment. The contingency plan shall be reviewed, and immediately amended, if necessary, whenever:

- ❖ the plan fails in an emergency,
- ❖ the facility changes in its design, construction, operation, maintenance, or other circumstances in a way that materially increases the potential for fires, explosions, or releases of hazardous waste or hazardous waste constituents, or changes the response necessary in an emergency,
- ❖ the list of emergency coordinators changes, or
- ❖ the list of emergency equipment changes.

Submit a copy of any updates or changes to your local CUPA or PA.

UST owners/operators be advised that the local UST agency, CUPA or PA, must be notified within 30 days of any changes to the monitoring procedures listed in the UST Emergency Response and Monitoring Plan as found Section II of the Consolidated Contingency Plan.

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

I. FACILITY IDENTIFICATION			
BUSINESS NAME	3	FACILITY ID # 1	
SITE ADDRESS	103	CITY	104
			ZIP CODE 105

II. EMERGENCY CONTACTS			
PRIMARY		SECONDARY	
NAME	123	NAME	128
TITLE	124	TITLE	129
BUSINESS PHONE	125	BUSINESS PHONE	130
24-HOUR PHONE	126	24-HOUR PHONE	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: (213) 485-8080
 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: (see page #14)	PHONE NO:
ADDRESS:	
CITY:	ZIP CODE:

OFFICIAL USE ONLY		DATE RECEIVED			REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA	

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

C. Private Emergency Response	
DOES YOUR BUSINESS HAVE A PRIVATE ON-SITE EMERGENCY RESPONSE TEAM? <input type="checkbox"/> Yes <input type="checkbox"/> 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:
ADDRESS:	
CITY:	ZIP CODE:
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:	
E. Evacuation Plan	
1. The following alarm signal(s) will be used to begin evacuation of the facility (check all which apply):	
<input checked="" type="checkbox"/> Verbal <input type="checkbox"/> Telephone (including cellular) <input type="checkbox"/> Alarm System <input type="checkbox"/> Public Address System <input type="checkbox"/> Intercom <input type="checkbox"/> Pagers <input type="checkbox"/> Portable Radio <input type="checkbox"/> Other (specify):	
2. <input type="checkbox"/> Evacuation map is prominently displayed throughout the facility.	
3. <input type="checkbox"/> Individual(s) responsible for coordinating evacuation including spreading the alarm and confirming the business has been evacuated:	
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.	
<input checked="" type="checkbox"/> Hazardous Waste/ Hazardous Materials Storage Areas <input type="checkbox"/> Production Floor <input type="checkbox"/> Process Lines <input type="checkbox"/> Bench/ Lab <input type="checkbox"/> Waste Treatment <input type="checkbox"/> Other:	
Identify mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.	
<input type="checkbox"/> Utilities <input type="checkbox"/> Sprinkler Systems <input type="checkbox"/> Cabinets <input type="checkbox"/> Shelves <input checked="" type="checkbox"/> Racks <input type="checkbox"/> Pressure Vessels <input type="checkbox"/> Gas Cylinders <input checked="" type="checkbox"/> Tanks <input type="checkbox"/> Process Piping <input type="checkbox"/> Shutoff Valves <input type="checkbox"/> 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.
	<input checked="" type="checkbox"/> Flammable /combustible liquids <input type="checkbox"/> Irritants
	<input type="checkbox"/> Compressed gases <input type="checkbox"/> Poisons
	<input checked="" type="checkbox"/> Corrosive materials <input type="checkbox"/> Other
	* Good housekeeping & adhere to all safety precautions.
	* All materials are stored in approved containers.
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?
	* Notify other employees.
	* Attempt containment.
	* Notify emergency services (911).
	* Evacuate premises if necessary.
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?
	* Immediate discontinue the use of the product.
	* Use absorbent materials & place in approved containers.
	* Contact my authorized waste hauler who will dispose the material
	in accordance with Federal, State, and City requirements.

**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.			
EMERGENCY EQUIPMENT INVENTORY TABLE			
1. Equipment Category	2. Equipment Type	3. Location *	4. Description**
Personal Protective, Equipment, Safety Equipment, and First Aid Equipment	<input type="checkbox"/> Cartridge Respirators		
	<input type="checkbox"/> Chemical Monitoring Equipment (describe)		
	<input type="checkbox"/> Chemical Protective Aprons/Coats		
	<input type="checkbox"/> Chemical Protective Boots		
	<input type="checkbox"/> Chemical Protective Gloves		
	<input type="checkbox"/> Chemical Protective Suits (describe)		
	<input type="checkbox"/> Face Shields		
	<input type="checkbox"/> First Aid Kits/Stations (describe)		
	<input type="checkbox"/> Hard Hats		
	<input type="checkbox"/> Plumbed Eye Wash Stations		
	<input type="checkbox"/> Portable Eye Wash Kits (i.e. bottle type)		
	<input type="checkbox"/> Respirator Cartridges (describe)		
	<input type="checkbox"/> Safety Glasses/Splash Goggles		
	<input type="checkbox"/> Safety Showers		
<input type="checkbox"/> Self-Contained Breathing Apparatuses (SCBA)			
<input type="checkbox"/> Other (describe)			
Fire Extinguishing Systems	<input type="checkbox"/> Automatic Fire Sprinkler Systems		
	<input type="checkbox"/> Fire Alarm Boxes/Stations		
	<input type="checkbox"/> Fire Extinguisher Systems (describe)		
	<input type="checkbox"/> Other (describe)		
Spill Control Equipment and Decontamination Equipment	<input type="checkbox"/> Absorbents (describe)		
	<input type="checkbox"/> Berms/Dikes (describe)		
	<input type="checkbox"/> Decontamination Equipment (describe)		
	<input type="checkbox"/> Emergency Tanks (describe)		
	<input type="checkbox"/> Exhaust Hoods		
	<input type="checkbox"/> Gas Cylinders Leak Repair Kits (describe)		
	<input type="checkbox"/> Neutralizers (describe)		
	<input type="checkbox"/> Overpack Drums		
	<input type="checkbox"/> Sumps (describe)		
<input type="checkbox"/> Other (describe)			
Communications and Alarm Systems	<input type="checkbox"/> Chemical Alarms (describe)		
	<input type="checkbox"/> Intercoms/ PA Systems		
	<input type="checkbox"/> Portable Radios		
	<input type="checkbox"/> Telephones		
	<input type="checkbox"/> Underground Tank Leak Detection Monitors		
Additional Equipment (Use Additional Pages if Needed.)	<input type="checkbox"/> Other (describe)		

* Use the Location Codes (LC) from the Site Map(s) prepared for your Contingency Plan.

** Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

V. EMPLOYEE TRAINING

All facilities which handle hazardous materials must have a written employee training plan. A blank plan has been provided below for you to complete and submit. The items listed below are required per Health and Safety Code Section 25504 (c) and Title 19 Section 2732.

Facility personnel are trained as follows:

- | |
|--|
| <ul style="list-style-type: none">❖ Familiarity with all plans and procedures specified in the Contingency Plan.❖ Methods for Safe Handling of Hazardous Materials.❖ Safety procedures in the event of a release or threatened release of a hazardous material.❖ Use of Emergency Response equipment and supplies under the control of the business.❖ Procedures for Coordination with local Emergency Response Organizations. |
|--|

Training shall be provided:

- ❖ Initially for all new employees.
- ❖ Annually, including refresher courses, for all employees.

Note: These training programs may take into consideration the position of each employee.

Additional training should include:

- ❖ Internal alarm/notification procedures.
- ❖ Evacuation/re-entry procedures and assembly point locations.
- ❖ Material Safety Data Sheet (MSDS) training including specific hazard(s) of each chemical to which employees may be exposed, including routes of exposure (*i.e. inhalation, ingestion, absorption*).

VI. HAZARDOUS WASTE GENERATOR TRAINING

If your business is a hazardous waste generator, you are required to provide training in hazardous waste management for all workers who handle hazardous waste at your site (22 CCR §66265.16). You are also required to document training. The items below are required.

EMPLOYEE TRAINING	
❖	Facility personnel will successfully complete training within six months after the date of their employment or assignment to a facility or to a new position at a facility.
❖	Employees will not handle hazardous wastes without supervision until trained.
TRAINING DOCUMENTATION	
The owner or operator must maintain the following documents and records at the facility:	
❖	Job title for each position at the facility that is related to hazardous waste management, and the names of the employee(s) filling the position(s).
❖	Description for each position listed above (must include required skill, education, or other qualifications as well as duties of employees assigned to the position).
❖	Description of <i>type</i> and <i>amount</i> of both introductory and continuing training given to each employee.
❖	Records that document that the requirements for training or job experience have been met.
❖	Current employees' training records (to be retained until closure of the facility).
❖	Former employees' training records (to be retained at least three years after termination of employment).

INTENTIONALLY LEFT BLANK

HOSPITALS

- A. ENCINO HOSPITAL, 16237 Ventura Bl., Encino, 91436, (818)995-5000
- B. ENCINO-TARZANA REGIONAL MED CTR, 18321 Clark St., Tarzana, 91356, (323)881-0800
- C. GRANADA HILLS COM. HOSPITAL, 10445 Balboa Bl., Granada Hills, 91344, (818)360-1021
- D. KAISER HOSPITAL, 13652 Cantara St., Panorama City, 91402, (323)375-2000
- E. KAISER HOSPITAL, 5601 De Soto Av., Woodland Hills, 91367, (818)719-2000
- F. OLIVE VIEW MED CTR, 14445 Olive View Dr., Sylmar, 91342, (818)364-1555
- G. MISSION COM. HOSPITAL, 14850 Roscoe Bl., Panorama City, 91402, (818)787-2222
- H. MISSION COM. HOSPITAL, 700 Chatsworth Dr., San Fernando, 91340, (818)361-7331
- I. NORTH HOLLYWOOD MED. CTR., 12629 Riverside Dr., North Hollywood, 91607, (323)980-9200
- J. NORTHRIDGE HOSPITAL, 18300 Roscoe Bl., Reseda, 91335, (818)885-8500
- K. NORTHRIDGE-SHERMAN HOSPITAL, 14500 Sherman Cir., Van Nuys, 91405, (818)997-0101
- L. PACIFICA HOSPITAL, 9449 San Fernando Rd., Sun Valley, 91352, (323)767-3310
- M. HOLY CROSS MEDICAL CTR., 15301 Rinaldi St., Mission Hills, 91345, (818)365-8051
- N. SAINT JOSEPH MED. CTR., 501 S. Buena Vista St., Burbank, 91505, (818)843-5111
- O. SHERMAN OAKS HOSPITAL, 4929 Van Nuys Bl., Sherman Oaks, 91403, (323)981-7111
- P. VALLEY PRES. HOSPITAL, 15107 Vanowen St., Van Nuys, 91405, (323)782-6600
- Q. WEST HILLS MEDICAL CENTER, 7300 N. Medical Center Dr., West Hills, 91307 (818)676-4100

#FA 0037085

N

2007 Hazardous Materials Business Plan

Time Warner Cable Inc.

290 Harbor Drive
Stamford, CT 06902

Received

MAR 28 2007

HRND - Data Ops

West Valley, Hub 9 (Time Warner Cable Inc.)

(Facility Name / ID)

18913 ½ Strathern Street

(Facility Address)

Reseda

(Facility City)

Los Angeles

(Facility County)

**POST THIS DOCUMENT ON-SITE SO IT WILL BE AVAILABLE IN
THE EVENT OF GOVERNMENT AGENCY INSPECTION, SITE
ASSESSMENT OR AUDIT.**



UNIFIED PROGRAM (UP) FORM

BUSINESS OWNER/OPERATOR IDENTIFICATION (LACoCUPA Form 2730)

NEW BUSINESS OUT OF BUSINESS REVISE/UPDATE (EFFECTIVE 01/01/07)

PAGE OF

I. IDENTIFICATION

FACILITY ID#		BEGINNING DATE	100	ENDING DATE	101
		01/01/2007		12/31/2007	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)			3 BUSINESS PHONE		
West Valley, Hub 9 (Time Warner Cable, Inc.)			(310)287-3520		
BUSINESS SITE ADDRESS					103
18913 1/2 Strathern Street					
CITY	104	CA	ZIP CODE		105
Reseda			91335		
DUN & BRADSTREET		106	SIC CODE (4 digit #)	107	
			4841		
COUNTY	108	UNINCORPORATED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		133a.	
Los Angeles					
BUSINESS OPERATOR NAME			109 BUSINESS OPERATOR PHONE		
Time Warner Cable Inc.			(310)261-8307		

II. BUSINESS OWNER

OWNER NAME		111	OWNER PHONE		112
Time Warner Cable Inc.			(203)328-0600		
OWNER MAILING ADDRESS					113
290 Harbor Drive					
CITY	114	STATE	115	ZIP CODE	116
Stamford		CT		06902	

III. ENVIRONMENTAL CONTACT

CONTACT NAME		117	CONTACT PHONE		118
Keith Vaughn			(818)700-5969		
CONTACT MAILING ADDRESS					119
485 Easy Street					
CITY	120	STATE	121	ZIP CODE	122
Simi Valley		CA		93065	

IV. EMERGENCY CONTACTS

PRIMARY	SECONDARY		
NAME	123	NAME	128
Keith Vaughn		RNOC	
TITLE	124	TITLE	129
Mgr Network Ops.		Regional Network Operations Center	
BUSINESS PHONE	125	BUSINESS PHONE	130
(818)700-5969		(888)766-2521 opt 1	
24-HOUR PHONE	126	24-HOUR PHONE	131
		(888)766-2521 opt 1	
PAGER #	127	PAGER #	132
E-MAIL ADDRESS (if any) Kieth.Vaughn@twcable.com	133b	E-MAIL ADDRESS (if any)	133b


V. ADDITIONAL LOCALLY COLLECTED INFORMATION

FEDERAL TAX IDENTIFICATION NUMBER		133c
NAME, POSITION, AND DATE OF BIRTH		
DRIVER'S LICENSE NUMBER AND STATE		

MAILING/ BILLING INFORMATION

ADDRESS	133d	CITY	133e	STATE	133f	ZIP CODE	133g
485 Easy Street		Simi Valley		CA		93065	

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
	03-27-07		LFR Inc.	
NAME OF SIGNER (print)	136	TITLE OF SIGNER	137	
Shane Noreen		Sr Project Engineer		

OFFICIAL USE ONLY	UP Form	HW	HM	ARP	APST	UST	TP	CUPA	PA
INSPECTOR	DISTRICT	DATE OF INSP.	DIVISION	BATTALION	STATION				
		Hm 3001 e/b. 7/1/07							

UNIFIED PROGRAM (UP) FORM

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION (LACoCUPA Form 2731)

(one page per material per building or area)

ADD
 DELETE
 REVISE
 REPORTING YEAR 2007
 200 Page of

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3
 West Valley, Hub 9 (Time Warner Cable, Inc.)

CHEMICAL LOCATION 201 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) YES NO 202

FACILITY ID # 1 MAP# (optional) 203 GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET Yes No 206
 Petroleum Hydrocarbon

If Subject to EPCRA, refer to instructions

COMMON NAME Diesel Fuel #2 207 EHS* Yes No 208 RS* Yes No 246a

CAS# 68476-34-6 209 *If EHS or RS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) combustible liquid 210

HAZARDOUS MATERIAL TYPE (Check one item only) a. PURE b. MIXTURE c. WASTE 211 RADIOACTIVE Yes No 212 CURIES 213

PHYSICAL STATE (Check one item only) a. SOLID b. LIQUID c. GAS 214 LARGEST CONTAINER 225 215

FED HAZARD CATEGORIES (Check all that apply) a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 225 218 MAXIMUM DAILY AMOUNT 225 219 ANNUAL WASTE AMOUNT 220 STATE WASTE CODE

UNITS* (Check one item only) a. GALLONS b. CUBIC FEET c. POUNDS d. TONS 221 DAYS ON SITE: 365 222
* If EHS, amount must be in pounds.

STORAGE CONTAINER 223

e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE q. RAIL CAR
 f. CAN j. BAG n. PLASTIC BOTTLE r. OTHER
 g. CARBOY k. BOX o. TOTE BIN
 h. SILO l. CYLINDER p. TANK WAGON

STORAGE PRESSURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT 224

STORAGE TEMPERATURE a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	RS 246b	CAS #
1 100.0 226	Diesel Fuel #2 227	<input type="checkbox"/> Yes 228	<input type="checkbox"/> Yes 229	68476-34-6 230
2 230	231	<input type="checkbox"/> Yes 232	<input type="checkbox"/> Yes 233	234
3 234	235	<input type="checkbox"/> Yes 236	<input type="checkbox"/> Yes 237	238
4 238	239	<input type="checkbox"/> Yes 240	<input type="checkbox"/> Yes 241	242
5 242	243	<input type="checkbox"/> Yes 244	<input type="checkbox"/> Yes 245	

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
 (Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY			DATE RECEIVED			REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA		

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

COVER PAGE

FACILITY IDENTIFICATION			
BUSINESS NAME West Valley, Hub 9 (Time Warner Cable Inc.)	3	FACILITY ID # 1	
SITE ADDRESS 18913 1/2 Strathern Street	103	CITY Reseda	104 ZIP CODE 105 91335

The Consolidated Contingency Plan provides businesses a format to comply with the emergency planning requirements of the following three written hazardous materials emergency response plans required in California:

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Hazardous Waste Generator (HWG)	Cover Page, Section I, and Site Map(s)
Underground Storage Tank (UST)	Cover Page, Sections I and II, and Site Map(s)
HMBP, HWG, UST	Cover Page, Sections I and II, and Site Map(s)

A copy of the plan shall be submitted to your local CUPA and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency. Describe below where a copy of your Contingency Plan, including the hazardous material inventories and Site Map(s), is located at your business:

The Contingency Plan is located in the facility department.

PLAN CERTIFICATION

I certify under penalty of law that I have personally examined and I am familiar with the information provided by this plan and to the best of my knowledge the information is accurate, complete, and true.

Printed Name of Owner/ Operator Shane Noreen	Title of Owner/Operator Sr Project Engineer
Signature of Owner/ Operator 	Date 03-27-07

We appreciate the effort of local businesses in completing these plans and will assist in every possible way. If you have any questions, please contact your local CUPA or PA.

OFFICIAL USE ONLY		DATE RECEIVED			REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA	

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

I. FACILITY IDENTIFICATION						
BUSINESS NAME Former Main Head End (Time Warner Cable Inc.)					3	FACILITY ID # 1
SITE ADDRESS 9229 Lurline Avenue.			103	CITY Chatsworth	104	ZIP CODE 105 91311
II. EMERGENCY CONTACTS						
PRIMARY			SECONDARY			
NAME Keith Vaughn	123	NAME RNOC	128			
TITLE Mgr Network Operations	124	TITLE Regional Network Operations Center	129			
BUSINESS PHONE (818)700-5969	125	BUSINESS PHONE (888)766-2521 opt 1	130			
24-HOUR PHONE	126	24-HOUR PHONE (888)766-2521 opt 1	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 National Response Center: (800) 424-8802						
Information to be provided during Notification:						
<ul style="list-style-type: none"> ❖ 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: Northridge Hospital Medical Center				PHONE NO: (818) 885-8500		
ADDRESS: 18300 Roscoe Blvd						
CITY: Northridge				ZIP CODE: 91325		
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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: ServPro	PHONE NO: 1-800-SERVPRO (1-800-737-8776)
ADDRESS: N/A – various addresses throughout California.	
CITY:	ZIP CODE:
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: None.	
E. Evacuation Plan	
1. The following alarm signal(s) will be used to begin evacuation of the facility (<i>check all which apply</i>): <input checked="" type="checkbox"/> Verbal <input checked="" type="checkbox"/> Telephone (<i>including cellular</i>) <input checked="" type="checkbox"/> Alarm System <input type="checkbox"/> Public Address System <input type="checkbox"/> Intercom <input type="checkbox"/> Pagers <input type="checkbox"/> Portable Radio <input type="checkbox"/> Other (<i>specify</i>):	
2. <input checked="" type="checkbox"/> Evacuation map is prominently displayed throughout the facility.	
3. <input checked="" type="checkbox"/> Individual(s) responsible for coordinating evacuation including spreading the alarm and confirming the business has been evacuated: Senior Ranking Employee Onsite	
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.	
<input checked="" type="checkbox"/> Hazardous Waste/ Hazardous Materials Storage Areas <input type="checkbox"/> Bench/ Lab	<input checked="" type="checkbox"/> Production Floor <input type="checkbox"/> Process Lines <input type="checkbox"/> Waste Treatment <input type="checkbox"/> Other:
Identify mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.	
<input checked="" type="checkbox"/> Utilities <input checked="" type="checkbox"/> Racks <input type="checkbox"/> Process Piping	<input checked="" type="checkbox"/> Sprinkler Systems <input type="checkbox"/> Cabinets <input type="checkbox"/> Shelves <input type="checkbox"/> Pressure Vessels <input type="checkbox"/> Gas Cylinders <input checked="" type="checkbox"/> Tanks <input checked="" type="checkbox"/> Shutoff Valves <input type="checkbox"/> 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:
<p>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.</p> <p>The hazard present at the facility is diesel fuel, a combustible liquid and/or Sulfuric Acid, a corrosive liquid with lead, a toxic metal.</p> <p>* All diesel fuel are stored in minimum quantities in a single aboveground diesel fuel tank which is bolted to the ground. The double-walled fuel tank is inspected monthly by the network operations technicians. The building has fire sprinklers and/or fire suppressants on site.</p> <p>* All sulfuric acid and lead are stored in lidless battery compartments. The batteries are placed in a leak proof cabinet. Cabinets are bolted to the floor.</p>
<p>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?</p> <p>For small incidents: Call the regional network operations center (RNOC) for assistance (888-766-2521 opt 1) The RNOC will call the maintenance contractor for assistance. For fires, use a fire extinguisher.</p> <p>For larger incidents: call 9-1-1, evacuate to emergency assembly area or staging area, wait for emergency personnel to respond, and call the RNOC.</p>
<p>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?</p> <p>Employees are instructed not to handle any released materials, and are to contact the RNOC for assistance (888-766-2521 opt 1). The person who notices the release will immediately notify the NOC and proceed with contacting the appropriate contractor for assistance.</p>

**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.

EMERGENCY EQUIPMENT INVENTORY TABLE

1. Equipment Category	2. Equipment Type	3. Location *	4. Description**
Personal Protective, Equipment, Safety Equipment, and First Aid Equipment	<input type="checkbox"/> Cartridge Respirators		
	<input type="checkbox"/> Chemical Monitoring Equipment (<i>describe</i>)		
	<input type="checkbox"/> Chemical Protective Aprons/Coats		
	<input type="checkbox"/> Chemical Protective Boots		
	<input type="checkbox"/> Chemical Protective Gloves		
	<input type="checkbox"/> Chemical Protective Suits (<i>describe</i>)		
	<input type="checkbox"/> Face Shields		
	<input checked="" type="checkbox"/> First Aid Kits/Stations (<i>describe</i>)		Industrial first aid kit
	<input type="checkbox"/> Hard Hats		
	<input type="checkbox"/> Plumbed Eye Wash Stations		
	<input checked="" type="checkbox"/> Portable Eye Wash Kits (<i>i.e. bottle type</i>)		
	<input type="checkbox"/> Respirator Cartridges (<i>describe</i>)		
	<input checked="" type="checkbox"/> Safety Glasses/Splash Goggles		Safety glasses for cleanup of spill
	<input type="checkbox"/> Safety Showers		
<input type="checkbox"/> Self-Contained Breathing Apparatuses (SCBA)			
<input type="checkbox"/> Other (<i>describe</i>)			
Fire Extinguishing Systems	<input checked="" type="checkbox"/> Automatic Fire Sprinkler Systems, OR	Throughout	Sprinkler system OR
	<input type="checkbox"/> Fire Alarm Boxes/Stations		
	<input checked="" type="checkbox"/> Fire Extinguisher Systems (<i>describe</i>), OR		
	<input checked="" type="checkbox"/> Other (<i>describe</i>), OR		Suppressant OR
Spill Control Equipment and Decontamination Equipment	<input type="checkbox"/> Absorbents (<i>describe</i>)		
	<input type="checkbox"/> Berms/Dikes (<i>describe</i>)		
	<input type="checkbox"/> Decontamination Equipment (<i>describe</i>)		
	<input type="checkbox"/> Emergency Tanks (<i>describe</i>)		
	<input type="checkbox"/> Exhaust Hoods		
	<input type="checkbox"/> Gas Cylinders Leak Repair Kits (<i>describe</i>)		
	<input type="checkbox"/> Neutralizers (<i>describe</i>)		
	<input type="checkbox"/> Overpack Drums		
	<input type="checkbox"/> Sumps (<i>describe</i>)		
<input type="checkbox"/> Other (<i>describe</i>)			
Communications and Alarm Systems	<input type="checkbox"/> Chemical Alarms (<i>describe</i>)		
	<input type="checkbox"/> Intercoms/ PA Systems		
	<input type="checkbox"/> Portable Radios		
	<input checked="" type="checkbox"/> Telephones	Throughout	Telephones
	<input type="checkbox"/> Underground Tank Leak Detection Monitors		
Additional Equipment (Use Additional Pages if Needed.)	<input checked="" type="checkbox"/> Other (<i>describe</i>)	Personnel	Cell Phones

* Use the Location Codes (LC) from the Site Map(s) prepared for your Contingency Plan.

** Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

V. EMPLOYEE TRAINING

All facilities which handle hazardous materials must have a written employee training plan. A blank plan has been provided below for you to complete and submit. The items listed below are required per Health and Safety Code Section 25504 (c) and Title 19 Section 2732.

Facility personnel are trained as follows:

- ❖ Familiarity with all plans and procedures specified in the Contingency Plan.
- ❖ Methods for Safe Handling of Hazardous Materials.
- ❖ Safety procedures in the event of a release or threatened release of a hazardous material.
- ❖ Use of Emergency Response equipment and supplies under the control of the business.
- ❖ Procedures for Coordination with local Emergency Response Organizations.

Training shall be provided:

- ❖ Initially for all new employees.
- ❖ Annually, including refresher courses, for all employees.

Note: These training programs may take into consideration the position of each employee.

Additional training should include:

- ❖ Internal alarm/notification procedures.
- ❖ Evacuation/re-entry procedures and assembly point locations.
- ❖ Material Safety Data Sheet (MSDS) training including specific hazard(s) of each chemical to which employees may be exposed, including routes of exposure (*i.e. inhalation, ingestion, absorption*).

FA8037085

UNIFIED PROGRAM (UP) FORM

BUSINESS OWNER/OPERATOR IDENTIFICATION (LACoCUPA Form 2730)

NEW BUSINESS OUT OF BUSINESS REVISE/UPDATE (EFFECTIVE 01/01/08)

PAGE 1 OF 4

I. IDENTIFICATION

FACILITY ID#		BEGINNING DATE	100	ENDING DATE	101
		01/01/2008		12/31/2008	
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As)	3	BUSINESS PHONE			102
West Valley, Hub 9 (Time Warner Cable Inc.)		(818)700-5969			
BUSINESS SITE ADDRESS					103
18913.5 Strathern Street					
CITY	104	CA		ZIP CODE	105
Reseda				91335	
DUN & BRADSTREET	106	SIC CODE (4 digit #)			107
784174976		4841			
COUNTY	108	UNINCORPORATED	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		133a.
Los Angeles					
BUSINESS OPERATOR NAME	109	BUSINESS OPERATOR PHONE			110
Time Warner Cable Inc.		(818)700-5969			

II. BUSINESS OWNER

OWNER NAME	111	OWNER PHONE			112
Time Warner Cable Inc.		(203)328-0600			
OWNER MAILING ADDRESS					113
290 Harbor Drive					
CITY	114	STATE	115	ZIP CODE	116
Stamford		CT		06902	

III. ENVIRONMENTAL CONTACT

CONTACT NAME	117	CONTACT PHONE			118
Charlie Barrett		805-526-3715			
CONTACT MAILING ADDRESS					119
485 Easy Street					
CITY	120	STATE	121	ZIP CODE	122
Simi Valley		CA		93065	

IV. EMERGENCY CONTACTS

PRIMARY		SECONDARY	
NAME	123	NAME	128
Keith Vaughn		RNOC	
TITLE	124	TITLE	129
Headend Manager		Regional Network Operations Center	
BUSINESS PHONE	125	BUSINESS PHONE	130
(818)700-5969		(888)766-2521 opt 1	
24-HOUR PHONE	126	24-HOUR PHONE	131
		(888)766-2521 opt 1	
PAGER #	127	PAGER #	132
E-MAIL ADDRESS (if any)	133b	E-MAIL ADDRESS (if any)	133b
Kieth.Vaughn@twcable.com			


V. ADDITIONAL LOCALLY COLLECTED INFORMATION

FEDERAL TAX IDENTIFICATION NUMBER					
NAME, POSITION, AND DATE OF BIRTH	NA				133c
DRIVER'S LICENSE NUMBER AND STATE	NA				

MAILING/ BILLING INFORMATION

ADDRESS	133d	CITY	133e	STATE	133f	ZIP CODE	133g
485 Easy Street		Simi Valley		CA		93065	

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
	2/18/08		LFR Inc.	
NAME OF SIGNER (print)	136	TITLE OF SIGNER		137
Matt Smith		Staff I Engineer		

OFFICIAL USE ONLY	UP Form	HW	IIM	ARP	APST	UST	TP	CUPA	PA
INSPECTOR	DISTRICT	DATE OF INSP.	DIVISION	BATTALION	STATION				

UNIFIED PROGRAM (UP) FORM

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION (LACoCUPA Form 2731)

(one page per material per building or area)

<input checked="" type="checkbox"/> ADD	<input type="checkbox"/> DELETE	<input type="checkbox"/> REVISE	REPORTING YEAR 2008
---	---------------------------------	---------------------------------	---------------------

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3 West Valley, Hub 9 (Time Warner Cable Inc.)		
CHEMICAL LOCATION 201	CHEMICAL LOCATION CONFIDENTIAL (EPCRA) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 202	
FACILITY ID #	MAP# (optional) 203	GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 Lead	TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 206 <small>If Subject to EPCRA, refer to instructions</small>	
COMMON NAME Battery Electrode 207	EHS* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 208	RS* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 246a
CAS# 7439-92-1 209	*If EHS or RS is "Yes", all amounts below must be in lbs.	
FIRE CODE HAZARD CLASSES (Complete if required by CUPA) Toxic solid 210		
HAZARDOUS MATERIAL TYPE (Check one item only) <input checked="" type="checkbox"/> a. PURE <input type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE 211	RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 212	CURIES 213
PHYSICAL STATE (Check one item only) <input checked="" type="checkbox"/> a. SOLID <input type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS 214	LARGEST CONTAINER na 215	
FED HAZARD CATEGORIES (Check all that apply) <input type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input checked="" type="checkbox"/> e. CHRONIC HEALTH 216		
AVERAGE DAILY AMOUNT 401.92	MAXIMUM DAILY AMOUNT 218 401.92	ANNUAL WASTE AMOUNT 219 -
UNITS* (Check one item only) <input type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input checked="" type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS 221 <small>* If EHS, amount must be in pounds.</small>		DAYS ON SITE: 365 222
STORAGE CONTAINER <input type="checkbox"/> a. ABOVE GROUND TANK <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> c. TANK INSIDE BUILDING <input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> f. CAN <input type="checkbox"/> g. CARBOY <input type="checkbox"/> h. SILO <input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> j. BAG <input type="checkbox"/> k. BOX <input type="checkbox"/> l. CYLINDER <input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> n. PLASTIC BOTTLE <input type="checkbox"/> o. TOTE BIN <input type="checkbox"/> p. TANK WAGON <input type="checkbox"/> q. RAIL CAR 223		
STORAGE PRESSURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT 224		
STORAGE TEMPERATURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC 225		

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	RS 246b	CAS #
1 100.0 226	Lead 227	<input type="checkbox"/> Yes 228	<input type="checkbox"/> Yes	7439-92-1 229
2 230	231	<input type="checkbox"/> Yes 232	<input type="checkbox"/> Yes	233
3 234	235	<input type="checkbox"/> Yes 236	<input type="checkbox"/> Yes	237
4 238	239	<input type="checkbox"/> Yes 240	<input type="checkbox"/> Yes	241
5 242	243	<input type="checkbox"/> Yes 244	<input type="checkbox"/> Yes	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY			DATE RECEIVED		REVIEWED BY	
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA

UNIFIED PROGRAM (UP) FORM

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION (LACoCUPA Form 2731)

(one page per material per building or area)

ADD
 DELETE
 REVISE
 REPORTING YEAR 2008
 200
 Page 3 of 4

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3		
West Valley, Hub 9 (Time Warner Cable Inc.)		
CHEMICAL LOCATION 201	CHEMICAL LOCATION CONFIDENTIAL (EPCRA) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 202	
FACILITY ID #	MAP# (optional) 203	GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205	TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 206	
Sulfuric Acid	If Subject to EPCRA, refer to instructions	
COMMON NAME Battery Electrolyte 207	EHS* <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 208	RS* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 246a
CAS# 7664-93-9 209	*If EHS or RS is "Yes", all amounts below must be in lbs.	
FIRE CODE HAZARD CLASSES (Complete if required by CUPA) corrosive liquid 210		
HAZARDOUS MATERIAL TYPE (Check one item only) <input type="checkbox"/> a. PURE <input checked="" type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE 211	RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 212	CURIES 213
PHYSICAL STATE (Check one item only) <input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS 214	LARGEST CONTAINER na 215	
FED HAZARD CATEGORIES (Check all that apply) <input type="checkbox"/> a. FIRE <input checked="" type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input checked="" type="checkbox"/> e. CHRONIC HEALTH 216		
AVERAGE DAILY AMOUNT	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219
98.56	98.56	-
UNITS* (Check one item only) <input type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input checked="" type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS 221	DAYS ON SITE: 365 222	
* If EHS, amount must be in pounds.		
STORAGE CONTAINER <input type="checkbox"/> a. ABOVE GROUND TANK <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> c. TANK INSIDE BUILDING <input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> f. CAN <input type="checkbox"/> g. CARBOY <input type="checkbox"/> h. SILO <input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> j. BAG <input type="checkbox"/> k. BOX <input type="checkbox"/> l. CYLINDER <input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> n. PLASTIC BOTTLE <input type="checkbox"/> o. TOTE BIN <input type="checkbox"/> p. TANK WAGON <input type="checkbox"/> q. RAIL CAR 223		
STORAGE PRESSURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT 224		
STORAGE TEMPERATURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC 225		

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	RS 246b	CAS #
1 30.0 226	Sulfuric Acid 227	<input checked="" type="checkbox"/> Yes 228	<input type="checkbox"/> Yes	7664-93-9 229
2 70.0 230	Water 231	<input type="checkbox"/> Yes 232	<input type="checkbox"/> Yes	7732-18-5 233
3 234	235	<input type="checkbox"/> Yes 236	<input type="checkbox"/> Yes	237
4 238	239	<input type="checkbox"/> Yes 240	<input type="checkbox"/> Yes	241
5 242	243	<input type="checkbox"/> Yes 244	<input type="checkbox"/> Yes	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
 (Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY			DATE RECEIVED		REVIEWED BY	
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA

UNIFIED PROGRAM (UP) FORM

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION (LACoCUPA Form 2731)

(one page per material per building or area)

ADD
 DELETE
 REVISE
 REPORTING YEAR 2008
 200
 Page 4 of 4

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3									
West Valley, Hub 9 (Time Warner Cable Inc.)									
CHEMICAL LOCATION 201					CHEMICAL LOCATION CONFIDENTIAL (EPCRA) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 202				
FACILITY ID #		MAP# (optional) 203			GRID# (optional) 204				

II. CHEMICAL INFORMATION

CHEMICAL NAME 205					TRADE SECRET <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 206				
Petroleum Hydrocarbon					If Subject to EPCRA, refer to instructions				
COMMON NAME Diesel Fuel #2 207					EHS* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 208		RS* <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 246a		
CAS# 68476-34-6 209					*If EHS or RS is "Yes", all amounts below must be in lbs.				
FIRE CODE HAZARD CLASSES (Complete if required by CUPA) combustible liquid 210									
HAZARDOUS MATERIAL TYPE (Check one item only) <input checked="" type="checkbox"/> a. PURE <input type="checkbox"/> b. MIXTURE <input type="checkbox"/> c. WASTE 211					RADIOACTIVE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 212		CURIES 213		
PHYSICAL STATE (Check one item only) <input type="checkbox"/> a. SOLID <input checked="" type="checkbox"/> b. LIQUID <input type="checkbox"/> c. GAS 214					LARGEST CONTAINER NA 215				
FED HAZARD CATEGORIES (Check all that apply) <input checked="" type="checkbox"/> a. FIRE <input type="checkbox"/> b. REACTIVE <input type="checkbox"/> c. PRESSURE RELEASE <input checked="" type="checkbox"/> d. ACUTE HEALTH <input checked="" type="checkbox"/> e. CHRONIC HEALTH 216									
AVERAGE DAILY AMOUNT 225			MAXIMUM DAILY AMOUNT 225 218		ANNUAL WASTE AMOUNT - 219		STATE WASTE CODE - 220		
UNITS* (Check one item only) <input checked="" type="checkbox"/> a. GALLONS <input type="checkbox"/> b. CUBIC FEET <input type="checkbox"/> c. POUNDS <input type="checkbox"/> d. TONS 221					DAYS ON SITE: 365 222				
STORAGE CONTAINER <input type="checkbox"/> b. UNDERGROUND TANK <input type="checkbox"/> f. CAN <input type="checkbox"/> j. BAG <input type="checkbox"/> n. PLASTIC BOTTLE <input type="checkbox"/> r. OTHER <input type="checkbox"/> c. TANK INSIDE BUILDING <input type="checkbox"/> g. CARBOY <input type="checkbox"/> k. BOX <input type="checkbox"/> o. TOTE BIN <input type="checkbox"/> d. STEEL DRUM <input type="checkbox"/> h. SILO <input type="checkbox"/> l. CYLINDER <input type="checkbox"/> p. TANK WAGON <input type="checkbox"/> e. PLASTIC/NONMETALLIC DRUM <input type="checkbox"/> i. FIBER DRUM <input type="checkbox"/> m. GLASS BOTTLE <input type="checkbox"/> q. RAIL CAR 223									
STORAGE PRESSURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT 224									
STORAGE TEMPERATURE <input checked="" type="checkbox"/> a. AMBIENT <input type="checkbox"/> b. ABOVE AMBIENT <input type="checkbox"/> c. BELOW AMBIENT <input type="checkbox"/> d. CRYOGENIC 225									

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	RS 246b	CAS #
1 100.0 226	Diesel Fuel #2 227	<input type="checkbox"/> Yes 228	<input type="checkbox"/> Yes 246b	68476-34-6 229
2 230	231	<input type="checkbox"/> Yes 232	<input type="checkbox"/> Yes 246b	233
3 234	235	<input type="checkbox"/> Yes 236	<input type="checkbox"/> Yes 246b	237
4 238	239	<input type="checkbox"/> Yes 240	<input type="checkbox"/> Yes 246b	241
5 242	243	<input type="checkbox"/> Yes 244	<input type="checkbox"/> Yes 246b	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
 (Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY			DATE RECEIVED			REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA		

2008 Hazardous Materials Inventory Update

Time Warner Cable Inc.

290 Harbor Drive
Stamford, CT 06902

West Valley, Hub 9 (Time Warner Cable Inc.)

(Facility Name / ID)

18913.5 Strathern Street

(Facility Address)

Reseda

(Facility City)

Los Angeles

(Facility County)

2008 FEB 20 PM 2 29

**POST THIS DOCUMENT ON-SITE SO IT WILL BE AVAILABLE IN
THE EVENT OF GOVERNMENT AGENCY INSPECTION, SITE
ASSESSMENT OR AUDIT.**





**LOS ANGELES COUNTY FIRE DEPARTMENT
HEALTH HAZARDOUS MATERIALS DIVISION
5825 Rickenbacker Road, Commerce, CA 90040**



BUSINESS PLAN ANNUAL RENEWAL CERTIFICATION

Hazardous Materials Inventory Statement (HMIS)

I certify that the attached HMIS reflects the handling of hazardous materials for the reporting year in accordance with the following conditions:

- Delete:** Write "delete" on the HMIS next to any previously disclosed hazardous materials that are no longer used.
- Revise:** Write the correct amounts, locations, or container type on the HMIS to reflect the accuracy of any previously reported hazardous materials.
- EPCRA Compliance:** Fill in the EPCRA field with your signature on the HMIS for any hazardous material type and quantity identified on 40 CFR Part 355, Appendix A—The List of Extremely Hazardous Substances and Their Threshold Planning Quantities.
- Add:** Complete one **Hazardous Materials Inventory—Chemical Description Form** to add each hazardous materials that you have not previously disclosed. Submit one form per chemical.
- No Change:** The HMIS is accurate and complete.

Consolidated Contingency Plan (CCP)

I review the CCP every three years and certify that the CCP on file with your agency is accurate and current in accordance with the following conditions:

- Modification:** Significant changes in facility personnel or operations require a revision of the CCP. Complete and submit changes of your CCP with this form.
- Lost:** Complete and submit any parts of your CCP that were lost or damaged.
- No Change:** There have not been any significant changes in the facility's personnel and operations that require a revision to the current CCP.

Cal-ARP Program

I reviewed the threshold quantities in Section 2770.5 of Title 19 of the California Code of Regulations and certify that any regulated substance on the attached HMIS accords with the following registration requirement:

- Add:** Complete the **Cal-ARP Program Regulated Substance Registration** form only if the regulated substance is at or above the threshold quantity (TQ). Submit one form per chemical.
- No Change:** The previously submitted registration for regulated substance(s) is accurate.

ANNUAL CERTIFICATION

I certify that the information submitted herein is complete and accurate. Also, no hazardous materials subject to the inventory requirements of Chapter 6.95 of the Health and Safety Code are being handled that are not listed on the most recently submitted annual inventory form.

Matt Smith
Print Name of Document Preparer

LFR, Inc.
Print Name of Owner/Operator

[Signature]
Signature of Owner/Operator

West Valley, Hub9 (Time Warner Cable, Inc.)
Business Name

18913.5 Strathern Street
Site Address

2/18/08
Date

Submit this packet to the above address before December 31, 2007 to avoid a late submittal penalty of \$285 or other enforcement options. You should use certified mail. Obtain unified program forms from our website at <http://www.fire.lacounty.gov/HealthHazMat/HHMDForms.asp> or from our Data Operations Unit at (323) 890-4000.

O.E. 40111

FA 37085
N

2010 HAZARDOUS MATERIALS BUSINESS
PLAN UPDATE

Time Warner Cable Inc.
290 Harbor Drive
Stamford, CT 06902

WEST VALLEY, HUB 9 (TIME WARNER CABLE, INC.)

(Facility Name / ID)

18913 1/2 STRATHERN STREET

(Facility Address)

RESEDA

(Facility City)

LOS ANGELES

(Facility County)

Received

FEB 11 2010

HHMD - Data Ops

**POST THIS DOCUMENT ON-SITE SO IT WILL BE AVAILABLE IN THE EVENT OF GOVERNMENT
AGENCY INSPECTION, SITE ASSESSMENT OR AUDIT.**



THE CERTIFIED UNIFIED PROGRAM AGENCIES OF LOS ANGELES COUNTY

UNIFIED PROGRAM (UP) FORM



**CITY OF EL SEGUNDO
FIRE DEPARTMENT**



**COUNTY OF LOS ANGELES
FIRE DEPARTMENT**



**CITY OF GLENDALE
FIRE DEPARTMENT**



**CITY OF SANTA FE SPRINGS
FIRE DEPARTMENT**



CITY OF LONG BEACH



**CITY OF SANTA MONICA
FIRE DEPARTMENT**

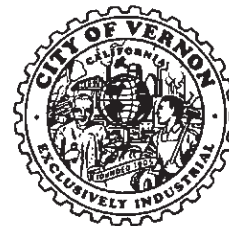
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FEB 11 2010

MEMO - Data Ops



**CITY OF LOS ANGELES
FIRE DEPARTMENT**



**HEALTH DEPARTMENT
CITY OF VERNON**



**LOS ANGELES COUNTY FIRE DEPARTMENT
HEALTH HAZARDOUS MATERIALS DIVISION
5825 Rickenbacker Road, Commerce, CA 90040**



BUSINESS PLAN ANNUAL RENEWAL CERTIFICATION

Hazardous Materials Inventory Statement (HMIS)

I certify that the attached HMIS reflects the handling of hazardous materials for the reporting year in accordance with the following conditions: (Please check all that apply).

- Delete:** Write "delete" on the HMIS next to any previously disclosed hazardous materials that are no longer used.
- Revise:** Write the correct amounts, locations, or container type on the HMIS to reflect the accuracy of any previously reported hazardous materials.
- EPCRA Compliance:** Fill in the EPCRA field with your signature on the HMIS for any hazardous material type and quantity identified on 40 CFR Part 355, Appendix A—The List of Extremely Hazardous Substances and Their Threshold Planning Quantities.
- Add:** Complete one **Hazardous Materials Inventory—Chemical Description Form** to add each hazardous materials that you have not previously disclosed. Submit one form per chemical.
- No Change:** **Hazardous Materials Inventory Statement (HMIS)** is accurate and complete.

Consolidated Contingency Plan (CCP)

An initial submittal of the CCP is required when you start handling hazardous materials. At least once every 3 years after the initial submittal, the CCP needs to be reviewed and certified that the file with your agency is accurate and current in accordance with the following conditions:

- If the Owner/Operator page indicates "CCP Certification required"** complete and submit a new CCP.
- Modification:** Significant changes in facility personnel or operations required a revision of the CCP. Complete and submit changes of your CCP with this form. Indicate changes by crossing out old information, and writing in the correct information.
- Lost:** Complete and submit any parts of your CCP that were lost or damaged.
- No Change:** There have not been any significant changes in the facility's personnel or operations that require a revision to the current CCP.

Received
FEB 11 2010

Cal-ARP Program

I reviewed the threshold quantities in Section 2770.5 of Title 19 of the California Health and Safety Code and certify that any regulated substance on the attached HMIS accords with the following registration requirement: N/A

- Add:** Complete the **Cal-ARP Program Regulated Substance Registration** form **only** if the regulated substance is at or above the threshold quantity (TQ). Submit one form per chemical.
- No Change:** The previously submitted registration for regulated substance(s) is accurate.

ANNUAL CERTIFICATION

I certify that the information submitted herein is complete and accurate. Also, no hazardous materials subject to the inventory requirements of Chapter 6.95 of the Health and Safety Code are being handled that are not listed on the most recently submitted annual inventory form.

ARCADIS US, Inc.	Time Warner Cable, Inc.	
Print Name of Document Preparer	Print Name of Owner/Operator	Signature of Owner/Operator
Time Warner Cable, Inc.	18913 1/2 Strathern Street, Reseda	2/10/2010
Business Name	Site Address	Date

Submit this packet to the above address before January 4, 2010 to avoid a late submittal penalty of \$285 or other enforcement options. Certified Mail advised. Do not submit any fees with this packet. Obtain unified program forms from our website at <http://www.fire.lacounty.gov/HealthHazMat/HHMDForms.asp> or from our Data Operations Unit at (323) 890-4000.

UNIFIED PROGRAM (UP) FORM BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID #	1	EPA ID # (Hazardous Waste Only)	2
---------------	---	---------------------------------	---

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) 3
 West Valley, Hub 9 (Time Warner Cable, Inc.)

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....
-----------------------	--

<p>A. HAZARDOUS MATERIALS</p> <p>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?</p>	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 4	<p>HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION CONSOLIDATED CONTINGENCY PLAN (Section I and Site Map(s)) TRAINING PLAN</p>
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<p>B. UNDERGROUND STORAGE TANKS (USTs)</p> <p>1. Own or operate underground storage tanks?</p> <p>2. Intend to upgrade existing or install new USTs?</p> <p>3. Need to report closing a UST?</p>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 5 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 6 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 7	<p>UST FACILITY UST TANK (one page per tank)</p> <p>UST FACILITY UST TANK (one per tank) UST INSTALLATION - CERTIFICATE OF COMPLIANCE (one page per tank)</p> <p>UST TANK (closure portion –one page per tank)</p>
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<p>C. ABOVE GROUND PETROLEUM STORAGE TANKS (APSTs)</p> <p>Petroleum oil is stored in any container or tank that has a storage capacity of 55 gallons or more. The aggregate capacity of petroleum oil in all tanks and containers is greater than 1,320 gallons.</p>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 8	<p>CONSOLIDATED CONTINGENCY PLAN (Section I and Site Map(s))</p>
---	---	--

<p>D. HAZARDOUS WASTE</p> <p>1. Generate hazardous waste?</p> <p>2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?</p> <p>3. Treat hazardous waste on site?</p> <p>4. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?</p> <p>5. Consolidate hazardous waste generated at a remote site?</p> <p>6. Need to report the closure/removal of a tank that was classified as hazardous waste and cleaned onsite?</p>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 9 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 10 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 11 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 12 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 13 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 14	<p>EPA ID NUMBER – provide at the top of this page. As a generator, answer YES to Item E2b and complete Waste Generator Form.</p> <p>RECYCLABLE MATERIALS REPORT ONSITE HAZARDOUS WASTE TREATMENT – FACILITY ONSITE HAZARDOUS WASTE TREATMENT – UNIT (one page per unit) CERTIFICATION OF FINANCIAL ASSURANCE REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION HAZARDOUS WASTE TANK CLOSURE CERTIFICATION</p>
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E. LOCAL REQUIREMENTS 15

1. REGULATED SUBSTANCES		
<p>Have Regulated Substances (RS) including Extremely Hazardous Substances (EHS) stored on site at greater than the threshold planning quantities established by the California Accidental Release Program (Cal ARP) ?</p>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 15a	<p>In addition to Hazardous Materials requirements, complete: Regulated Substance Registration Risk Management Plan (when required)</p>

2. OTHER REQUIREMENTS		
<p>a. Have hazardous materials stored on site at or above a threshold amount established by a CUPA's or PA's local ordinance?</p> <p>b. Required by a CUPA or PA to provide other information?</p>	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 15b <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO 15c	<p>Consult local CUPA or PA for added reporting requirements.</p> <p>Waste Generator Form (LA County)</p>

OFFICIAL USE ONLY	UP Form	HW	HM	ARP	AST	UST	TP	CUPA	PA
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UNIFIED PROGRAM (UP) FORM
BUSINESS OWNER/OPERATOR IDENTIFICATION (LACoCUPA Form 2730)

NEW BUSINESS OUT OF BUSINESS REVISE/UPDATE (EFFECTIVE: 1 / 1 / 10)

PAGE 2 OF 12

I. IDENTIFICATION

FACILITY ID#	BEGINNING DATE 01/01/2010	ENDING DATE 12/31/2010
BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) West Valley, Hub 9 (Time Warner Cable, Inc.)	BUSINESS PHONE (818) 700-5969	
BUSINESS SITE ADDRESS 18913 1/2 Strathern Street		
CITY Reseda	ZIP CODE 91335	
DUN & BRADSTREET 78-417-4976	SIC CODE (4 digit #) 4841	
COUNTY LOS ANGELES	UNINCORPORATED <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
BUSINESS OPERATOR NAME Time Warner Cable, Inc.	BUSINESS OPERATOR PHONE (203) 328-0600	

II. BUSINESS OWNER

OWNER NAME Time Warner Cable, Inc.	OWNER PHONE (203) 328-0600
OWNER MAILING ADDRESS 290 Harbor Drive	
CITY Stamford	STATE CT ZIP CODE 06902

III. ENVIRONMENTAL CONTACT

CONTACT NAME Charles Barrett	CONTACT PHONE (818) 700-5969
CONTACT MAILING ADDRESS 9260 Topanga Cyn Blvd	
CITY Chatsworth	STATE CA ZIP CODE 91311

IV. EMERGENCY CONTACTS

PRIMARY		SECONDARY	
NAME Charles Barrett		NAME RNOC	
TITLE Headend Manager		TITLE Regional Network Operations Center	
BUSINESS PHONE (818) 700-5969		BUSINESS PHONE (888) 766-2521 Opt. 1	
24-HOUR PHONE		24-HOUR PHONE (888) 766-2521 Opt. 1	
PAGER # N/A		PAGER # N/A	
E-MAIL ADDRESS (if any) charlie.barrett@twcable.com		E-MAIL ADDRESS (if any) N/A	

V. ADDITIONAL LOCALLY COLLECTED INFORMATION

FEDERAL TAX IDENTIFICATION NUMBER	133c	NO. OF EMPLOYEES	133d
NAME, POSITION, AND DATE OF BIRTH		BUSINESS CODE	133e
DRIVER'S LICENSE NUMBER AND STATE			

MAILING/ BILLING INFORMATION

ADDRESS See Environmental Contact Above.	CITY	STATE	ZIP CODE
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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 2/10/2010	NAME OF DOCUMENT PREPARER ARCADIS US, Inc.
NAME OF SIGNER (print) Lesley Schafer, Agent for Time Warner Cable, Inc.	TITLE OF SIGNER Senior Staff Engineer, ARCADIS US, Inc.	

OFFICIAL USE ONLY		UP Form	HW	HM	ARP	APST	UST	TP	CUPA	PA
INSPECTOR	DISTRICT	DATE OF INSP.	DIVISION	BATTALION	STATION					

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

COVER PAGE

FACILITY IDENTIFICATION			
BUSINESS NAME West Valley, Hub 9 (Time Warner Cable, Inc.)	3	FACILITY ID # 1	
SITE ADDRESS 18913 1/2 Strathern Street	103	CITY Reseda	104 ZIP CODE 105 91335

The Consolidated Contingency Plan provides businesses a format to comply with the emergency planning requirements of the following three written hazardous materials emergency response plans required in California:

- ⊗ Hazardous Materials Business Plan (HSC Chapter 6.95 Section 25504 (b) and 19 CCR Sections 2729-2732),
- ⊗ Hazardous Waste Generator Contingency Plan (22 CCR Section 66264.52), and,
- ⊗ Underground Storage Tank Emergency Response Plan and Monitoring Program (23 CCR Sections 2632 and 2641).

This format is designed to reduce duplication in the preparation and use of emergency response plans at the same facility, and to improve the coordination between facility response personnel and local, state and federal emergency responders during an emergency. Use the chart below to determine which sections of the Consolidated Contingency Plan need to be completed for your facility. If you are unsure as to which programs your facility is subject to, refer to the Business Activities Page.


PROGRAMS	SECTION(S) TO BE COMPLETED
Hazardous Materials Business Plan (HMBP)	Cover Page, Section I, and Site Map(s)
Hazardous Waste Generator (HWG)	Cover Page, Section I, and Site Map(s)
Underground Storage Tank (UST)	Cover Page, Sections I and II, and Site Map(s)
HMBP, HWG, UST	Cover Page, Sections I and II, and Site Map(s)

A copy of the plan shall be submitted to your local CUPA and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency. Describe below where a copy of your Contingency Plan, including the hazardous material inventories and Site Map(s), is located at your business:

--

PLAN CERTIFICATION

I certify under penalty of law that I have personally examined and I am familiar with the information provided by this plan and to the best of my knowledge the information is accurate, complete, and true.

Printed Name of Owner/ Operator Lesley Schafer, Agent for Time Warner Cable, Inc.	Title of Owner/Operator Senior Staff Engineer, ARCADIS US, Inc.
Signature of Owner/ Operator 	Date 2/10/2010

We appreciate the effort of local businesses in completing these plans and will assist in every possible way. If you have any questions, please contact your local CUPA or PA.

OFFICIAL USE ONLY		DATE RECEIVED			REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA	

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

I. FACILITY IDENTIFICATION			
BUSINESS NAME West Valley, Hub 9 (Time Warner Cable, Inc.)		3	FACILITY ID # 1
SITE ADDRESS 18913 1/2 Strathern Street		103	CITY Reseda
		104	ZIP CODE 105 91335
II. EMERGENCY CONTACTS			
PRIMARY		SECONDARY	
NAME	Charles Barrett	123	NAME
			RNOC
			128
TITLE	Headend Manager	124	TITLE
			Regional Network Operations Center
			129
BUSINESS PHONE	(818) 700-5969	125	BUSINESS PHONE
			(888) 766-2521 Opt. 1
			130
24-HOUR PHONE	(818) 700-5969	126	24-HOUR PHONE
			(888) 766-2521 Opt. 1
			131
PAGER #	N/A	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:			
<ul style="list-style-type: none"> ⊗ 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:	Northridge Hospital Medical Center	PHONE NO:	818-885-8500
ADDRESS:	18300 Roscoe Blvd		
CITY:	Northridge	ZIP CODE:	91325

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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: Clean Harbors	PHONE NO: 800 - OIL- TANK (800) 645-8265
ADDRESS: 2500 East Victoria Street	
CITY: Compton	ZIP CODE: 90220
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: No special arrangements.	
E. Evacuation Plan	
1. The following alarm signal(s) will be used to begin evacuation of the facility (<i>check all which apply</i>):	
<input checked="" type="checkbox"/> Verbal <input checked="" type="checkbox"/> Telephone (<i>including cellular</i>) <input checked="" type="checkbox"/> Alarm System <input type="checkbox"/> Public Address System <input type="checkbox"/> Intercom <input type="checkbox"/> Pagers <input type="checkbox"/> Portable Radio <input type="checkbox"/> Other (<i>specify</i>):	
2. <input checked="" type="checkbox"/> Evacuation map is prominently displayed throughout the facility.	
3. <input checked="" type="checkbox"/> Individual(s) responsible for coordinating evacuation including spreading the alarm and confirming the business has been evacuated:	
Senior ranking employee on site.	
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.	
<input checked="" type="checkbox"/> Hazardous Waste/ Hazardous Materials Storage Areas <input type="checkbox"/> Bench/ Lab	<input checked="" type="checkbox"/> Production Floor <input type="checkbox"/> Waste Treatment <input type="checkbox"/> Other:
<input type="checkbox"/> Process Lines	
Identify mechanical systems where releases could occur or would require immediate inspection or isolation because of the vulnerability to earthquake related ground motion.	
<input checked="" type="checkbox"/> Utilities <input checked="" type="checkbox"/> Racks <input type="checkbox"/> Process Piping	<input checked="" type="checkbox"/> Sprinkler Systems <input type="checkbox"/> Pressure Vessels <input checked="" type="checkbox"/> Shutoff Valves <input type="checkbox"/> Other:
<input type="checkbox"/> Cabinets <input type="checkbox"/> Gas Cylinders	<input type="checkbox"/> Shelves <input checked="" type="checkbox"/> Tanks

**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.
The hazard present at the facility is diesel fuel, a combustible liquid and/or sulfuric acid, a corrosive liquid with lead, a toxic solid within batteries.
*All diesel fuel is stored in minimum quantities in a single above ground diesel tank which is bolted to the ground. The contained fuel tank is inspected monthly by the network operations technicians. The building has fire sprinklers and/or fire suppressants on site. All sulfuric acid and lead are stored in lidless battery compartments. The batteries are placed in a leak proof cabinet. Cabinets are bolted to the floor.
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?
For small incidents: Call the regional network operations center (RNOC) for assistance (888) 766-2521 Opt. 1. The RNOC will call the maintenance contractor for assistance. For fires, use a fire extinguisher. For larger incidents: call 9-1-1, evacuate to emergency assembly area or staging area, wait for emergency personnel to respond, and call the RNOC.
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?
Employees are instructed not to handle any released materials, and are to contact the RNOC for assistance (888) 766-2521 Opt. 1. The person who notices the release will immediately notify the NOC and proceed with contacting the appropriate contractor for assistance.

**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.

EMERGENCY EQUIPMENT INVENTORY TABLE

1. Equipment Category	2. Equipment Type	3. Location *	4. Description**
Personal Protective, Equipment, Safety Equipment, and First Aid Equipment	<input type="checkbox"/> Cartridge Respirators		
	<input type="checkbox"/> Chemical Monitoring Equipment (<i>describe</i>)		
	<input type="checkbox"/> Chemical Protective Aprons/Coats		
	<input type="checkbox"/> Chemical Protective Boots		
	<input type="checkbox"/> Chemical Protective Gloves		
	<input type="checkbox"/> Chemical Protective Suits (<i>describe</i>)		
	<input type="checkbox"/> Face Shields		
	<input checked="" type="checkbox"/> First Aid Kits/Stations (<i>describe</i>)		Industrial first aid kit
	<input type="checkbox"/> Hard Hats		
	<input type="checkbox"/> Plumbed Eye Wash Stations		
	<input checked="" type="checkbox"/> Portable Eye Wash Kits (<i>i.e. bottle type</i>)		
	<input type="checkbox"/> Respirator Cartridges (<i>describe</i>)		
	<input checked="" type="checkbox"/> Safety Glasses/Splash Goggles		Safety glasses for cleanup of spill
	<input type="checkbox"/> Safety Showers		
<input type="checkbox"/> Self-Contained Breathing Apparatuses (SCBA)			
<input type="checkbox"/> Other (<i>describe</i>)			
Fire Extinguishing Systems	<input checked="" type="checkbox"/> Automatic Fire Sptinkler Systems	Throughout	Sprinkler system OR
	<input type="checkbox"/> Fire Alarm Boxes/Stations		
	<input checked="" type="checkbox"/> Fire Extinguisher Systems (<i>describe</i>)		OR
	<input checked="" type="checkbox"/> Other (<i>describe</i>)		Suppressant OR
Spill Control Equipment and Decontamination Equipment	<input type="checkbox"/> Absorbents (<i>describe</i>)		
	<input type="checkbox"/> Berms/Dikes (<i>describe</i>)		
	<input type="checkbox"/> Decontamination Equipment (<i>describe</i>)		
	<input type="checkbox"/> Emergency Tanks (<i>describe</i>)		
	<input type="checkbox"/> Exhaust Hoods		
	<input type="checkbox"/> Gas Cylinders Leak Repair Kits (<i>describe</i>)		
	<input type="checkbox"/> Neutralizers (<i>describe</i>)		
	<input type="checkbox"/> Overpack Drums		
	<input type="checkbox"/> Sumps (<i>describe</i>)		
	<input type="checkbox"/> Other (<i>describe</i>)		
Communications and Alarm Systems	<input type="checkbox"/> Chemical Alarms (<i>describe</i>)		
	<input type="checkbox"/> Intercoms/ PA Systems		
	<input type="checkbox"/> Portable Radios		
	<input checked="" type="checkbox"/> Telephones	Throughout	Telephones
	<input type="checkbox"/> Underground Tank Leak Detection Monitors		
<input checked="" type="checkbox"/> Other (<i>describe</i>)	Personnel	Cell phones	
Additional Equipment (Use Additional Pages if Needed.)			

* Use the Location Codes (LC) from the Site Map(s) prepared for your Contingency Plan.

** Describe the equipment and its capabilities. If applicable, specify any testing/maintenance procedures/intervals. Attach additional pages, numbered appropriately, if needed.

**Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN**

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

V. EMPLOYEE TRAINING

All facilities which handle hazardous materials must have a written employee training plan. A blank plan has been provided below for you to complete and submit. The items listed below are required per Health and Safety Code Section 25504 (c) and Title 19 Section 2732.

Facility personnel are trained as follows:

- ☐ Familiarity with all plans and procedures specified in the Contingency Plan.
- ☐ Methods for Safe Handling of Hazardous Materials.
- ☐ Safety procedures in the event of a release or threatened release of a hazardous material.
- ☐ Use of Emergency Response equipment and supplies under the control of the business.
- ☐ Procedures for Coordination with local Emergency Response Organizations.

Training shall be provided:

- ☐ Initially for all new employees.
- ☐ Annually, including refresher courses, for all employees.

Note: These training programs may take into consideration the position of each employee.

Additional training should include:

- ☐ Internal alarm/notification procedures.
- ☐ Evacuation/re-entry procedures and assembly point locations.
- ☐ Material Safety Data Sheet (MSDS) training including specific hazard(s) of each chemical to which employees may be exposed, including routes of exposure (*i.e. inhalation, ingestion, absorption*).

Employees are trained in the following:

- Procedures for hazardous materials storage. Handling and labeling of hazardous materials. Review of material safety data sheets (MSDSs) and the Hazardous Materials Business Plan.
- Review of emergency response plan and emergency notification response procedures to ensure coordination with the local fire department, paramedics and clean up contractor in case of a significant spill leak or a fire.
- Inspection and maintenance of safety equipment (fire extinguishers, eye wash stations etc), and review and procedure for proper use of spill control equipment for small spills only.
- Review of Emergency Response Plan, evacuation procedures, location of shut off switches and specific responsibility of employees. Location of the emergency staging area, reminding employees the location of the emergency response plan. Training of select employees on spill containment with use of absorbent material. Location of absorbent material.

246 (a and b) RS - Check "Yes" if the hazardous material is a Regulated Substance (RS) under the CalARP Program and listed on the attached CalARP Program Regulated Substance list. RS - HAZARDOUS COMPONENTS 1-5 RS. Check "Yes" if the component of the mixture is considered an RS.

UNIFIED PROGRAM (UP) FORM
HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (LACoCUPA Form 2731)
(one page per material per building or area)

ADD DELETE REVISE REPORTING YEAR 2010 200 Page 10 of 12

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) 3
West Valley, Hub 9 (Time Warner Cable, Inc.)

CHEMICAL LOCATION 201 SUB LOCATION 199 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) 202
 YES NO

FACILITY ID # 1 MAP# (optional) 203 GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET 206
Lead Yes No
If Subject to EPCRA, refer to instructions

COMMON NAME 207 EHS* Yes No 208 RS* Yes No 246a
Battery Electrode

CAS# 209 *If EHS or RS is "Yes", all amounts below must be in lbs.
7439-92-1

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
Toxic Solid

HAZARDOUS MATERIAL TYPE (Check one item only) 211 RADIOACTIVE Yes No 212 CURIES 213
 a. PURE b. MIXTURE c. WASTE **N/A**

PHYSICAL STATE (Check one item only) 214 LARGEST CONTAINER 215
 a. SOLID b. LIQUID c. GAS **3.14**

FED HAZARD CATEGORIES (Check all that apply) 216
 a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217 MAXIMUM DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220
401.92 **401.92** **N/A** **N/A**

UNITS* (Check one item only) 221 DAYS ON SITE: 222
 a. GALLONS b. CUBIC FEET c. POUNDS d. TONS **365**
* If EHS, amount must be in pounds.

STORAGE CONTAINER 223
 a. ABOVE GROUND TANK e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE
 b. UNDERGROUND TANK f. CAN j. BAG n. PLASTIC BOTTLE
 c. TANK INSIDE BUILDING g. CARBOY k. BOX o. TOTE BIN
 d. STEEL DRUM h. SILO l. CYLINDER p. TANK WAGON

STORAGE PRESSURE 224
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

STORAGE TEMPERATURE 225
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	RS 246b	CAS #
1 226	227	<input type="checkbox"/> Yes 228	<input type="checkbox"/> Yes	229
2 230	231	<input type="checkbox"/> Yes 232	<input type="checkbox"/> Yes	233
3 234	235	<input type="checkbox"/> Yes 236	<input type="checkbox"/> Yes	237
4 238	239	<input type="checkbox"/> Yes 240	<input type="checkbox"/> Yes	241
5 242	243	<input type="checkbox"/> Yes 244	<input type="checkbox"/> Yes	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY		DATE RECEIVED	REVIEWED BY
DIV	BN	STA	OTHER
DISTRICT		CUPA	PA

246 (a and b) RS - Check "Yes" if the hazardous material is a Regulated Substance (RS) under the CalARP Program and listed on the attached CalARP Program Regulated Substance list. RS - HAZARDOUS COMPONENTS 1-5 RS. Check "Yes" if the component of the mixture is considered an RS.

UNIFIED PROGRAM (UP) FORM
HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (LACoCUPA Form 2731)
(one page per material per building or area)

ADD DELETE REVISE REPORTING YEAR 2010 200 | Page 11 of 12

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) 3
West Valley, Hub 9 (Time Warner Cable, Inc.)

CHEMICAL LOCATION 201 SUB LOCATION 199 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) 202
 YES NO

FACILITY ID # 1 MAP# (optional) 203 GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET 206
Sulfuric Acid Yes No
If Subject to EPCRA, refer to instructions

COMMON NAME 207 EHS* Yes No 208 RS* Yes No 246a
Battery Electrolyte

CAS# 209 *If EHS or RS is "Yes", all amounts below must be in lbs.
7664-93-9

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
Corrosive Liquid

HAZARDOUS MATERIAL TYPE (Check one item only) 211 RADIOACTIVE 212 CURIES 213
 a. PURE b. MIXTURE c. WASTE Yes No **N/A**

PHYSICAL STATE (Check one item only) 214 LARGEST CONTAINER 215
 a. SOLID b. LIQUID c. GAS **0.77**

FED HAZARD CATEGORIES (Check all that apply) 216
 a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217 MAXIMUM DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220
98.56 **98.56** **N/A** **N/A**

UNITS* (Check one item only) 221 DAYS ON SITE: 222
 a. GALLONS b. CUBIC FEET c. POUNDS d. TONS **365**
* If EHS, amount must be in pounds.

STORAGE CONTAINER 223
 a. ABOVE GROUND TANK e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE
 b. UNDERGROUND TANK f. CAN j. BAG n. PLASTIC BOTTLE
 c. TANK INSIDE BUILDING g. CARBOY k. BOX o. TOTE BIN
 d. STEEL DRUM h. SILO l. CYLINDER p. TANK WAGON

STORAGE PRESSURE 224
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

STORAGE TEMPERATURE 225
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	RS 246b	CAS #
1 226	227	<input type="checkbox"/> Yes 228	<input type="checkbox"/> Yes	229
2 230	231	<input type="checkbox"/> Yes 232	<input type="checkbox"/> Yes	233
3 234	235	<input type="checkbox"/> Yes 236	<input type="checkbox"/> Yes	237
4 238	239	<input type="checkbox"/> Yes 240	<input type="checkbox"/> Yes	241
5 242	243	<input type="checkbox"/> Yes 244	<input type="checkbox"/> Yes	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 248

If EPCRA, Please Sign Here ARCADIS
(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY		DATE RECEIVED	REVIEWED BY
DIV	BN	STA	OTHER
		DISTRICT	CUPA
			PA

246 (a and b) RS - Check "Yes" if the hazardous material is a Regulated Substance (RS) under the CalARP Program and listed on the attached CalARP Program Regulated Substance list. RS - HAZARDOUS COMPONENTS 1-5 RS. Check "Yes" if the component of the mixture is considered an RS.

UNIFIED PROGRAM (UP) FORM
HAZARDOUS MATERIALS INVENTORY - CHEMICAL DESCRIPTION (LACoCUPA Form 2731)
(one page per material per building or area)

ADD DELETE REVISE REPORTING YEAR 2010 200 Page 12 of 12

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA - Doing Business As) 3
West Valley, Hub 8 (Time Warner Cable, Inc.)

CHEMICAL LOCATION 201 SUB LOCATION 199 CHEMICAL LOCATION CONFIDENTIAL (EPCRA) 202
 YES NO

FACILITY ID # 1 MAP# (optional) 203 GRID# (optional) 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET 206
Petroleum Hydrocarbon Yes No
If Subject to EPCRA, refer to instructions

COMMON NAME 207 EHS* 208 RS* 246a
Diesel Fuel No. 2 Yes No Yes No

CAS# 209 *If EHS or RS is "Yes", all amounts below must be in lbs.

FIRE CODE HAZARD CLASSES (Complete if required by CUPA) 210
Flammable Liquid

HAZARDOUS MATERIAL TYPE (Check one item only) 211 RADIOACTIVE 212 CURIES 213
 a. PURE b. MIXTURE c. WASTE Yes No N/A

PHYSICAL STATE (Check one item only) 214 LARGEST CONTAINER 215
 a. SOLID b. LIQUID c. GAS **225**

FED HAZARD CATEGORIES (Check all that apply) 216
 a. FIRE b. REACTIVE c. PRESSURE RELEASE d. ACUTE HEALTH e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217 MAXIMUM DAILY AMOUNT 218 ANNUAL WASTE AMOUNT 219 STATE WASTE CODE 220
225 **225** **N/A** **N/A**

UNITS* (Check one item only) 221 DAYS ON SITE: 222
 a. GALLONS b. CUBIC FEET c. POUNDS d. TONS **365**
* If EHS, amount must be in pounds.

STORAGE CONTAINER 223
 e. PLASTIC/NONMETALLIC DRUM i. FIBER DRUM m. GLASS BOTTLE q. RAIL CAR
 f. CAN j. BAG n. PLASTIC BOTTLE r. OTHER
 g. CARBOY k. BOX o. TOTE BIN
 h. SILO l. CYLINDER p. TANK WAGON

STORAGE PRESSURE 224
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT

STORAGE TEMPERATURE 225
 a. AMBIENT b. ABOVE AMBIENT c. BELOW AMBIENT d. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	RS ^{246b}	CAS #
1 226	227	<input type="checkbox"/> Yes 228	<input type="checkbox"/> Yes	229
2 230	231	<input type="checkbox"/> Yes 232	<input type="checkbox"/> Yes	233
3 234	235	<input type="checkbox"/> Yes 236	<input type="checkbox"/> Yes	237
4 238	239	<input type="checkbox"/> Yes 240	<input type="checkbox"/> Yes	241
5 242	243	<input type="checkbox"/> Yes 244	<input type="checkbox"/> Yes	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here
(Facilities reporting Chemicals subject to EPCRA reporting thresholds must sign each Chemical Description page for each EPCRA reported chemical.)

OFFICIAL USE ONLY		DATE RECEIVED	REVIEWED BY
DIV	BN	STA	OTHER
DISTRICT		CUPA	PA



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



**Los Angeles Fire Department
 Data Entry Instruction Form (DEIF)
 FOR INTERNAL USE ONLY**

Date:	10/2/2013	New Business:	<input type="checkbox"/>
Default Inspector:	TEORA, THOMAS	Fire Station/Census:	073
Facility ID:	FA0037085	Insp District:	412
Facility Name:	TIME WARNER WEST VALLEY HUB 9		
Site Address:	18913 1/2 STRATHERN ST RESEDA, CA 91355		

VERIFIED FACILITY PHONE NUMBER
 PHONE NO: (818) 700-5969

Account Info

Account Outstanding Balance: \$801.00
 Number of Outstanding Invoices: 2

VERIFIED MAILING ADDRESS
 MAILING ADDRESS: 9260 TOPANGA CANYON BLVD
 (INVOICES/PERMITS) CHATSWORTH, CA 91311

ACTIVE PROGRAMS:

PE	PE DESCRIPTION	UNITS
MAIN_SITE		
4500	PR0113553 HAZ MAT INVENTORY 1 TO 3 CHEMICALS	

VERIFIED OWNER INFO
 OWNER NAME: TIME WARNER CABLE INC
 OWNER MAILING: 290 HARBOR DRIVE
 ADDRESS: STAMFORD, CT 06902
 PHONE: (323) 993-8000

DATA ENTRY INSTRUCTION(S): Check Appropriate Boxes

- | | |
|---|---|
| <input type="checkbox"/> Changes On BP 01 | <input type="checkbox"/> Changes On BP 08 |
| <input type="checkbox"/> UST Abandon Sheets | <input type="checkbox"/> UST Installation Sheets |
| <input type="checkbox"/> Changes On Attached CUPA Form(s) | <input type="checkbox"/> Enter Inventory on Attached CUPA Forms |

- Inactive Business** *Journal Entry should Be Included*
 Reason: *NO longer at Location closed down*
- Other Instruction:** *For Examples: Combine Business Under One BP Number*

INACTIVE

Data Entry Name: *Jay C*

Date: *Feb. 20, 2014*



BUSINESS INFORMATION

Printed on: 10/2/2013

INSTRUCTIONS: Please complete and sign this form; your signature indicates that the information, as supplied, is accurate.

Business Number: FA0037085

This is your current business plan number. This number must appear on all business plan forms!

Business Name: TIME WARNER WEST VALLEY HUB 9

Business Site Address: 18913 1/2 STRATHERN ST
RESEDA, CA 91355

Mailing Address: 9260 TOPANGA CANYON BLVD
CHATSWORTH, CA 91311

Other On-Site Addresses:

Briefly describe the nature of the hazardous materials operations:

OF EMPLOYEES:

CONTACT	WORK #	24 HOUR #	PAGER #
Owner Name: TIME WARNER CABLE INC	(323) 993-8000	-	-
On-Site Manager:		-	-
Emergency Contact: CHARLIE BARRETT	(818) 700-5969		
2nd Emergency Contact: REGIONAL NETWORK OPERATIONS CENTER	(888) 766-2521 Ext: 1		

Signature of Legal Business Owner/Authorized Representative

Title

Date

Business Plan has been reviewed and approved: _____

OFFICE USE ONLY

Insp. ID: _____

Date: _____

D/E ID: _____

Date: _____

TS: _____



**Hazardous Materials System
BP-8: Computer Listing of Inventory
Submitted Inspection Responsibility: VIU**

Printed on: 10/2/2013

Business Name	: TIME WARNER WEST VALLEY HUB 9	Business Address	: 18913 1/2 STRATHERN ST RESEDA, CA 91355
Business Owner	: TIME WARNER CABLE INC	Phone #	:
On-Site Manager	:	Phone #	: (818) 700-5969
Emergency Contact	: CHARLIE BARRETT	Phone #	: (888) 766-2521 Ext: 1
Alt Emergency Contact	: REGIONAL NETWORK OPERATIONS CENTER	SIC Code	: 4841
Next Inspection Date:	: 6/15/2013	Permit Date	:
# of Employees	:		

Total Chemicals: 2

Chemicals at Location: 1

LOCATION:

<u>Chemical Name</u>	<u>HM Type</u>	<u>Max Quantity on Hand</u>	<u>State</u>	<u>Fed Haz Catg.</u>
DIESEL FUEL #2	PURE	225.00 GALLONS	LIQUID	FIRE DELAYED HEALTH IMMEDIATE HEALTH

Container:

Chemicals at Location: 1

LOCATION:

<u>Chemical Name</u>	<u>HM Type</u>	<u>Max Quantity on Hand</u>	<u>State</u>	<u>Fed Haz Catg.</u>
LEAD (BATTERY ELECTRODE)LEAD	PURE	402.00 POUNDS	SOLID	DELAYED HEALTH

Container:

Delete

My signature indicates that I have verified and agreed with the types and quantities of hazardous materials at this address.

~~FA0037085~~ CHEMICAL COUNT: 2

INSP SIG: _____

BUS. REP. SIG: _____

INSP. DATE: 1/3/14

DATE: _____

Data Date: 10/2/2013



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



**CITY OF LOS ANGELES
 FIRE DEPARTMENT
 FIRE/LIFE SAFETY VIOLATION**

OCCUPANCY Commercial	CENSUS 073	INSP DISTRICT 412	MAP BOOK	PAGE	PARCEL	ISSUE DATE
To: TIME WARNER CABLE INC			Facility Name TIME WARNER WEST VALLEY HUB 9			
Mail Address: 9260 TOPANGA CANYON BLVD			Mail City, State, Zip CHATSWORTH, CA 91311		Facility Phone (818) 700-5969	
Site of Violation: 18913 1/2 STRATHERN ST			Site City, State, Zip RESEDA, CA 91355		FACILITY ID FA0037085	

COMPLY WITH REQUIREMENTS AS NOTED

L.A.M.C. 57.03.08 ACTING WITHOUT A PERMIT PROHIBITED

No person shall sell, offer for sale, install, operate, maintain, or use any appliance, device, equipment, or system which requires a Permit, a Special Permit, or a General Approval by provisions of this article, unless such Permit, Special Permit, or General Approval is then in effect.

L.A.M.C. 57.14.03 PERMIT REQUIRED

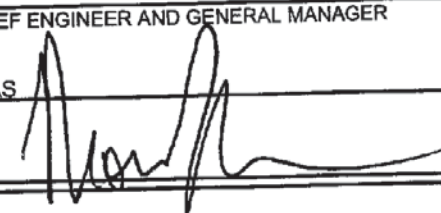
No person shall operate or maintain a new or existing Unified Program Facility without having obtained an annually renewable Unified Program Facility Permit with the appropriate authorization for each applicable unified program element pursuant to this division, or other authorized Permit.

L.A.M.C. 57.08.03 PERMIT REQUIRED

(The Facility is in violation of L.A.M.C. 57.08.03 Permit Required, please refer to the OFFICIAL CITY OF LOS ANGELES MUNICIPAL CODE for full details.)

AS OF THIS DATE, YOUR BUSINESS CONTINUES TO BE IN NONCOMPLIANCE OF LAMC. 57.14.03, LAMC 57.14.10, AND L.A.M.C. 57.08.03. FAILURE TO COMPLY WITH THIS NOTICE MAY RESULT IN A REFERRAL TO THE CITY ATTORNEY'S OFFICE FOR LEGAL ACTION.

FAILURE ON YOUR PART TO COMPLY WITH THIS NOTICE ON OR BEFORE: **FORTHWITH**
 WILL SUBJECT YOU TO PENALTIES PRESCRIBED BY SAID ORDINANCE. A RE-INSPECTION OF THESE PREMISES SHALL BE MADE FOR FULL COMPLIANCE.

RECEIVED BY: _____	TITLE: _____
DATE: _____	BY ORDER OF THE CHIEF ENGINEER AND GENERAL MANAGER
FOR ADDITIONAL INFORMATION PHONE: (213) 978-3689	BY: <u>TEORA THOMAS</u> SIGNATURE: 

Closed

FIRE DEPARTMENT COPY



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



**CITY OF LOS ANGELES
 FIRE DEPARTMENT
 FIRE/LIFE SAFETY VIOLATION**

OCCUPANCY	CENSUS	INSP DISTRICT	MAP BOOK	PAGE	PARCEL	ISSUE DATE
Commercial	073	412				
To: TIME WARNER CABLE INC			Facility Name TIME WARNER WEST VALLEY HUB 9			
Mail Address: 9260 TOPANGA CANYON BLVD			Mail City, State, Zip CHATSWORTH, CA 91311		Facility Phone (818) 700-5969	
Site of Violation: 18913 1/2 STRATHERN ST			Site City, State, Zip RESEDA, CA 91355		FACILITY ID FA0037085	

COMPLY WITH REQUIREMENTS AS NOTED

L.A.M.C. 57.03.08 ACTING WITHOUT A PERMIT PROHIBITED

No person shall sell, offer for sale, install, operate, maintain, or use any appliance, device, equipment, or system which requires a Permit, a Special Permit, or a General Approval by provisions of this article, unless such Permit, Special Permit, or General Approval is then in effect.

L.A.M.C. 57.14.03 PERMIT REQUIRED

No person shall operate or maintain a new or existing Unified Program Facility without having obtained an annually renewable Unified Program Facility Permit with the appropriate authorization for each applicable unified program element pursuant to this division, or other authorized Permit.

L.A.M.C. 57.08.03 PERMIT REQUIRED

(The Facility is in violation of L.A.M.C. 57.08.03 Permit Required, please refer to the OFFICIAL CITY OF LOS ANGELES MUNICIPAL CODE for full details.)

AS OF THIS DATE, YOUR BUSINESS CONTINUES TO BE IN NONCOMPLIANCE OF LAMC. 57.14.03, LAMC 57.14.10, AND L.A.M.C. 57.08.03. FAILURE TO COMPLY WITH THIS NOTICE MAY RESULT IN A REFERRAL TO THE CITY ATTORNEY'S OFFICE FOR LEGAL ACTION.

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RECEIVED BY: _____	TITLE: _____
DATE: _____	BY ORDER OF THE CHIEF ENGINEER AND GENERAL MANAGER
FOR ADDITIONAL INFORMATION PHONE: (213) 978-3689	BY: <u>TEORA THOMAS</u> SIGNATURE: _____

FACILITY COPY



Business No.: FA0037085

Date:

Business Name: TIME WARNER W VALLEY HUB 9, C
Business Mailing Address: 9260 TOPANGA CANYON B
CHATSWORTH, CA 91311

Last Inspection Date: 07/01/2008
Permit Date:

Storage Address: 18913 STRATHERN ST

RFI Request No:

RFI Requestor Name:

Chemical & Ingredients

	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
DIESEL FUEL #2(In-active) Inactivated on: 02/20/2014	a	225			b
-		0	0		
LEAD ACID BATTERIES(In-active) Inactivated on: 01/19/2012	b	27			b
-		0	0		
LEAD(In-active) LEAD (BATTERY ELECTRODE)(In-active) Inactivated on: 02/20/2014	a	402			a



LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0037085

Business Name: TIME WARNER W VALLEY HUB 9, C
Business Mailing Address: 9260 TOPANGA CANYON B
CHATSWORTH, CA 91311

Storage Address: 18913 STRATHERN ST

Date:

Last Inspection Date: 06/30/2009
Permit Date: 07/01/2008

RFI Request No:
RFI Requestor Name:

Chemical & Ingredients

Haz. Mat. Type	Max. Qty on hand:	Yearly Qty	Product Storage Type	Physical State
----------------	-------------------	------------	----------------------	----------------

- 0 0 0 0

DIESEL FUEL #2 (In-active)
Inactivated on: 02/20/2014

a 225

b

- 0 0 0 0

LEAD ACID BATTERIES (In-active)
Inactivated on: 01/19/2012

b 27

b

- 0 0 0 0

LEAD (In-active)
LEAD (BATTERY ELECTRODE) (In-active)
Inactivated on: 02/20/2014

a 402

a



CERTIFICATION REPORT
OF EXPORTED SOILS TESTING

SITE:

**Cleveland High School
8140 Vanalden St.
Reseda, CA 91335**

Prepared for:

Excel Paving
P.O. 16405
Long Beach, California 90806

Submitted to:

Los Angeles Unified School District -OEHS

October 6, 2008

*1900 W. Anaheim Street
Long Beach, CA 90813
Phone: 562-436-2614
Fax: 562-436-2688
www.patriotenvironmental.com*

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1.0 INTRODUCTION

Patriot Environmental Services (Patriot) submits this Certification Report of Exported Soils Testing presenting soil analysis results and proposed waste characterization for the subject site located at Cleveland High School, 8140 Vanalden St., Reseda, CA 91335

This report is generated in response to Section 10440 of the Environmental Import/Export Materials Testing specifications published by the Los Angeles Unified School District (LAUSD) on January 31, 2006, (hereafter known as “the LAUSD specifications”).

2.0 SAMPLING

2.1 Guidance and Rationale

Sampling was conducted on September 26, 2008 in accordance with all applicable federal, state and local guidance documents and protocols.

Due to the lack of existing environmental data specific to the site, a sampling rationale was developed in accordance with the Minimum Sampling Frequency (LAUSD Table 1) located in the LAUSD specifications.

For this site, the LAUSD – OEHS requested composite samples to be consistent with new schools procedures as they apply to export materials sampling.

The number of samples for a stockpile of approximately 800-900 cubic yards is shown to be four (4) in LAUSD Table 1. The four sample points were taken from the Stockpile as indicated in Figure 1 – Site Diagram and from specific locations as indicated in Figure 2 – Sample Locations.

2.2 Sample Compositing Procedure

The sample compositing procedure requires grab samples to be obtained from three (3) different vertical locations at each sample point on the stockpile. Three vertical samples locations are taken at each location in the following proximity to the stockpile surface:

- Minus 3 feet below the sample entry point
- At the approximate vertical center of the stockpile
- Near the vertical bottom of the stockpile for each sample.

After the three vertical samples are obtained from each sample location, the samples are grouped for laboratory compositing. The analytical laboratory combines material from each of the three vertical samples to form one composite sample for each sample location. Field composites are not allowed in this method.

2.3 Sample Procurement

Samples analyzed for Volatile Organics (EPA 8260B) and Total Petroleum Hydrocarbons (8015(M) for Gasoline) were acquired utilizing the “En Core” brand disposable sampling device.

The samples analyzed for the remaining required EPA method tests were obtained by grab methodology.

Compositing was not required for Volatile Organics (EPA 8260B) and Total Petroleum Hydrocarbons (8015M for Gasoline). The sample material acquired for that analysis was taken utilizing the “En Core” brand disposable sampling device only from the vertical center of the stockpile at each sample location.

To prevent cross-contamination, the sampling equipment was decontaminated before the sampling event utilizing de-ionized water and “Alconox” brand non-phosphate detergent.

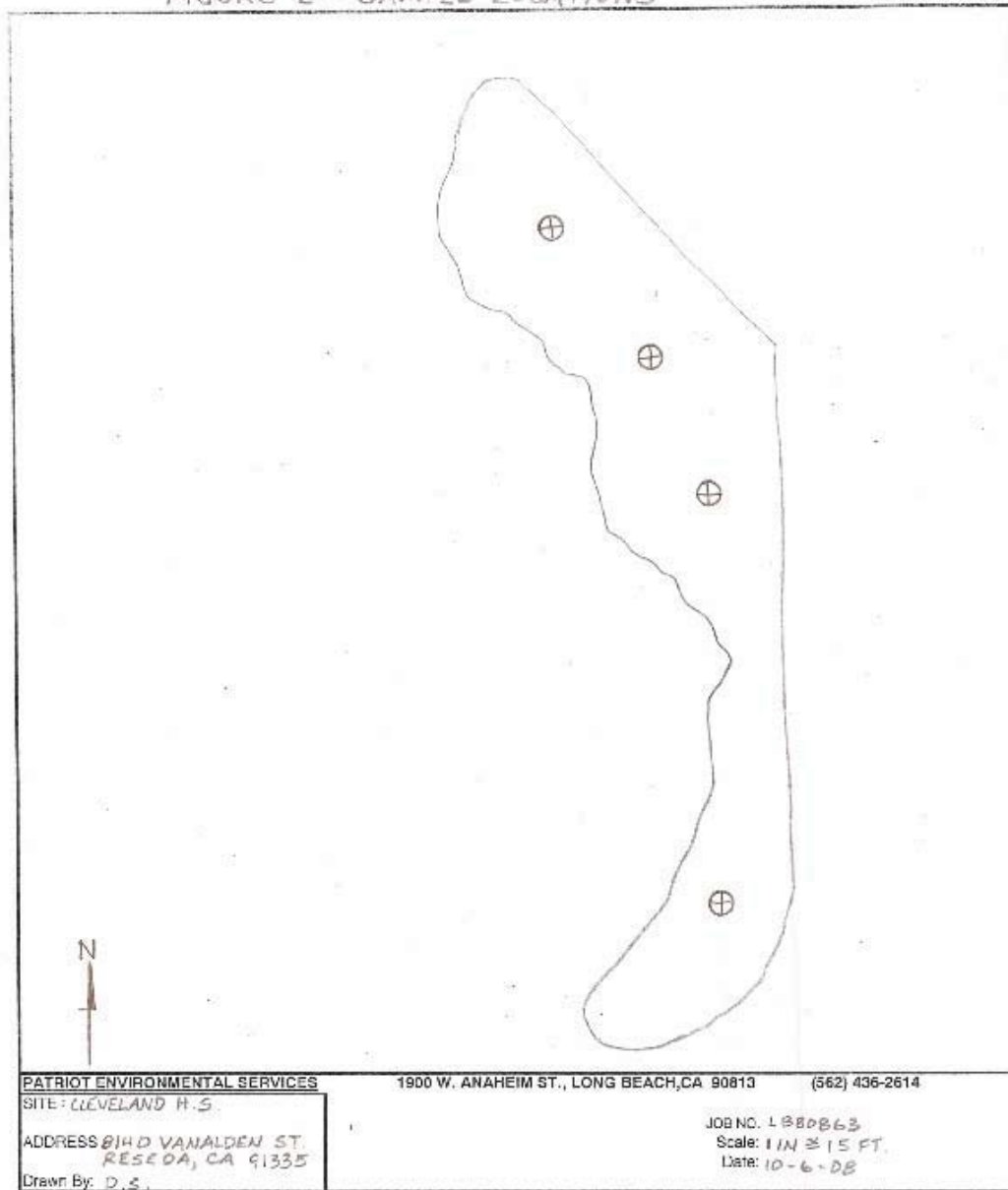
The samples were placed in a cooler on ice and transported under Chain of Custody to Calscience Environmental Laboratories, Inc. in Stanton, CA for analysis as required.

Figure 1 - Site Overview

The Site Overview is located on the following page.



FIGURE 2 - SAMPLE LOCATIONS



3.0 EVALUATION OF LABORATORY ANALYSIS RESULTS

Due to a lack of existing site specific data to support a more focused analytical approach, the analytical testing was conducted in accordance with the LAUSD specifications, PART 3, 3.01-D. The sample was analyzed for:

Total Petroleum Hydrocarbons utilizing EPA Method 8015 for gasoline and diesel

Volatile Organic Compounds utilizing EPA Method 8260B

Polychlorinated biphenyls utilizing EPA Method 8082

Semi-Volatile Organic Compounds utilizing EPA Method 8270C

Organochlorine Pesticides utilizing EPA Method 8081A

Organophosphorous Pesticides utilizing EPA Method 8141A

Chlorinated Herbicides utilizing EPA Method 8151A

Hexavalent Chromium utilizing EPA Method 7199

Arsenic/Thallium utilizing EPA Method 6020

CCR Title 22 (CAM 17) Metals utilizing EPA Method 6010B/7470A

The samples were composited as required and analyzed by Calscience Environmental Laboratories, 7440 Lincoln Way, Garden Grove, CA 92841, California, an independent certified testing laboratory approved by the State of California Department of Health Services (Accreditation Program Certification No. 1230). All analytical testing was accomplished under quality assurance/quality control guidelines in accordance with standard Method reporting limits, best laboratory practices, applicable standard operating procedures and other related documentation.

According to the Owners Authorized Representative (OAR), a Preliminary Environmental Assessment (PEA) Report does not exist for this site. Therefore it is not possible to compare the analytical results from the samples taken on August 14, 2008 with any previously existing site-specific background levels as described in Part 3, 3.01, F-1 of the LAUSD specifications.

Utilizing Part 3, 3.01, E and F-2 (a) of the LAUSD specifications, it has been determined that LAUSD contamination limits for benzene, ethylbenzene and toluene were exceeded.

A summary of the analytical parameters that did not meet the requirements of the LAUSD for use at a school site are summarized below:

SAMPLE NUMBER	DEFECTIVE ANALYTICAL PARAMETER
Cleveland 1	Benzene concentration exceeds 6.0 mg/kg (actual result 2.0 ug/kg – EPA Method 8260B) Ethylbenzene concentration exceeds 6.0 mg/kg (actual result 1.1 ug/kg – EPA Method 8260B) Toluene concentration exceeds 6.0 mg/kg (actual result 2.0 ug/kg – EPA Method 8260B)
Cleveland 2	Benzene concentration exceeds 6.0 mg/kg (actual result 3.4 ug/kg – EPA Method 8260B) Ethylbenzene concentration exceeds 6.0 mg/kg (actual result 1.4 ug/kg – EPA Method 8260B) Toluene concentration exceeds 6.0 mg/kg (actual result 3.3 ug/kg – EPA Method 8260B)
Cleveland 3	Benzene concentration exceeds 6.0 mg/kg (actual result 1.8 ug/kg – EPA Method 8260B) Ethylbenzene concentration exceeds 6.0 mg/kg (actual result 0.87 ug/kg – EPA Method 8260B) Toluene concentration exceeds 6.0 mg/kg (actual result 2.2 ug/kg – EPA Method 8260B)
Cleveland 4	Benzene concentration exceeds 6.0 mg/kg (actual result 1.7 ug/kg – EPA Method 8260B) Ethylbenzene concentration exceeds 6.0 mg/kg (actual result 1.1 ug/kg – EPA Method 8260B) Toluene concentration exceeds 6.0 mg/kg (actual result 2.0 ug/kg – EPA Method 8260B)

The laboratory analytical and quality assurance/quality control results are located in APPENDIX A – Laboratory Analytical Results.

4.0 DETERMINATION OF WASTE CLASSIFICATION

4.1 – Classification for Use at a School Site

Based on the results of the laboratory testing and according to Part 3, 3.01, E and F-2 of the LAUSD specifications, the export material for this site does meet the definition as environmentally defective and is not acceptable for use at a school site. No stockpiled soil with any concentration of volatile organic compounds (in this case benzene, ethylbenzene, and toluene) may be reused at this school site or any other LAUSD school site.

4.2 – Classification as US EPA or California Hazardous Waste

In accordance with Table 2 and Table 3 of the LAUSD specifications along with applicable US EPA and State of California hazardous materials and hazardous waste regulations, this material meets the definition as a non-hazardous waste based on the following rationale:

- The analytical results for and EPA Method 6010B/7470A (Title 22 CAM Metals) and EPA Method 6020 (Metals by ICP/MS for Arsenic) are well below the Total Threshold Limit Concentration (TTLC), the 10 times Soluble Threshold Limit Concentration (STLC) values and the 20 times Toxicity Characteristic Leaching Procedure (TCLP) values. The soils contain up to 3.4 ug/kg (PPB) Benzene, 1.4 ug/kg (PPB) Ethylbenzene and 3.3 ug/kg (PPB) Toluene, well below established regulatory values. The soils contain None Detected (ND) at the indicated reporting limit for all remaining analytical parameters required by the LAUSD specifications.

5.0 RECOMMENDATIONS FOR FURTHER ACTION

Based on analytical results and the documentation of waste classification(s), it is recommended that soils from this stockpile be transported and disposed of or reutilized at an appropriate facility or school site approved by the LAUSD-OEHS. It is also recommended that the soils be transported off-site within 90 days to avoid retesting and recertification.

If you have any questions, comments or require further information regarding this project, please contact the undersigned at (562) 436-2614 during regular business hours.

Certification Report for Exported Soils Testing for Cleveland High School prepared and certified by:

Patriot Environmental Services



Matthew J. Walker
Principal Engineer
California Civil Engineer 37369

APPENDIX A

LABORATORY ANALYTICAL REPORT

Calscience Environmental Laboratories, Inc.
California Department of Health Services Certification No. 0123



08-09-2518.pdf



CERTIFICATION REPORT OF
EXPORTED SOILS TESTING – PHASE 2

SITE:

**Cleveland High School
8140 Vanalden St.
Reseda, CA 91335**

Prepared for:

Excel Paving
P.O. 16405
Long Beach, California 90806

Submitted to:

Los Angeles Unified School District -OEHS

December 10, 2008

*1900 W. Anaheim Street
Long Beach, CA 90813
Phone: 562-436-2614
Fax: 562-436-2688
www.patriotenvironmental.com*

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1.0 INTRODUCTION

Patriot Environmental Services (Patriot) submits this Certification Report of Exported Soils Testing presenting soil analysis results and proposed waste characterization for the subject site located at Cleveland High School, 8140 Vanalden St., Reseda, CA 91335. This report details Phase 2 of the Project that includes the addition of approximately 900-990 cubic yards excavated at the site and named Stockpile 2.

This report is generated in response to Section 10440 of the Environmental Import/Export Materials Testing specifications published by the Los Angeles Unified School District (LAUSD) on January 31, 2006, (hereafter known as “the LAUSD specifications”).

2.0 SAMPLING

2.1 Guidance and Rationale

Sampling was conducted on December 2, 2008 in accordance with all applicable federal, state and local guidance documents and protocols.

Due to the lack of existing environmental data specific to the site, a sampling rationale was developed in accordance with the Minimum Sampling Frequency (LAUSD Table 1) located in the LAUSD specifications.

For this site, the LAUSD – OEHS requested composite samples to be consistent with new schools procedures as they apply to export materials sampling.

The number of samples for a stockpile of approximately 900-990 cubic yards is shown to be four (4) in LAUSD Table 1. The four sample points were taken from the Stockpile as indicated in Figure 1 – Site Diagram and from specific locations as indicated in Figure 2 – Sample Locations.

2.2 Sample Compositing Procedure

The sample compositing procedure requires grab samples to be obtained from three (3) different vertical locations at each sample point on the stockpile. Three vertical samples locations are taken at each location in the following proximity to the stockpile surface:

- Minus 3 feet below the sample entry point
- At the approximate vertical center of the stockpile
- Near the vertical bottom of the stockpile for each sample.

After the three vertical samples are obtained from each sample location, the samples are grouped for laboratory compositing. The analytical laboratory combines material from each of the three vertical samples to form one composite sample for each sample location.

2.3 Sample Procurement

Samples analyzed for Volatile Organics (EPA 8260B) and Total Petroleum Hydrocarbons (8015(M) for Gasoline) were acquired utilizing the “En Core” brand disposable sampling device.

The samples analyzed for the remaining required EPA method tests were obtained by grab methodology.

Compositing was not required for Volatile Organics (EPA 8260B) and Total Petroleum Hydrocarbons (8015M for Gasoline). The sample material acquired for that analysis was taken utilizing the “En Core” brand disposable sampling device only from the vertical center of the stockpile at each sample location.

To prevent cross-contamination, the sampling equipment was decontaminated before the sampling event utilizing de-ionized water and “Alconox” brand non-phosphate detergent.

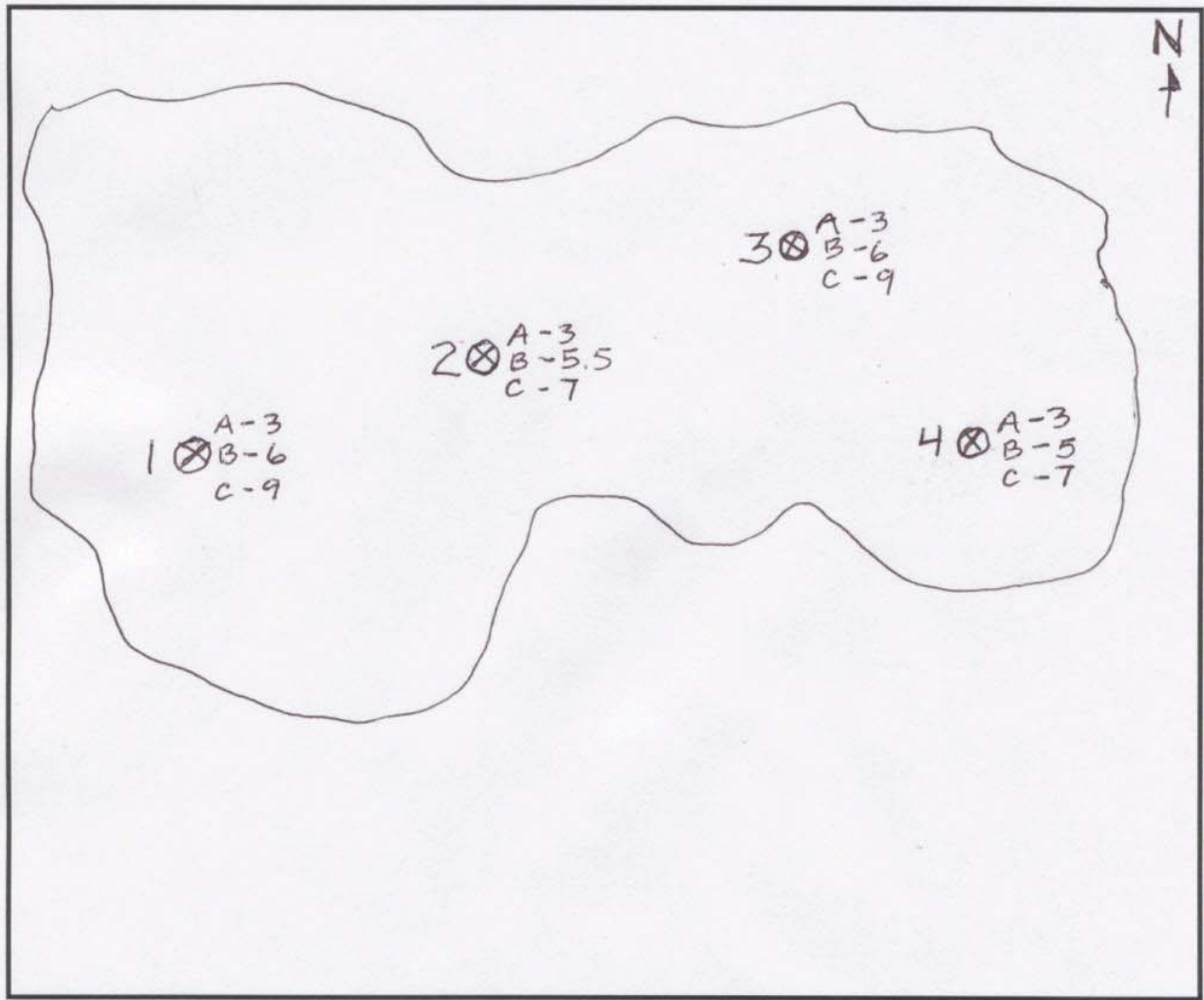
The samples were placed in a cooler on ice and transported under Chain of Custody to Calscience Environmental Laboratories, Inc. in Stanton, CA for analysis as required.

Figure 1 - Site Overview

The Site Overview is located on the following page.



FIGURE 2 – SAMPLE LOCATIONS



1 INCH = 15 FT

3.0 EVALUATION OF LABORATORY ANALYSIS RESULTS

Due to a lack of existing site specific data to support a more focused analytical approach, the analytical testing was conducted in accordance with the LAUSD specifications, PART 3, 3.01-D. The sample was analyzed for:

Total Petroleum Hydrocarbons utilizing EPA Method 8015 for gasoline and diesel

Volatile Organic Compounds utilizing EPA Method 8260B

Polychlorinated biphenyls utilizing EPA Method 8082

Semi-Volatile Organic Compounds utilizing EPA Method 8270C

Organochlorine Pesticides utilizing EPA Method 8081A

Organophosphorous Pesticides utilizing EPA Method 8141A

Chlorinated Herbicides utilizing EPA Method 8151A

Hexavalent Chromium utilizing EPA Method 7199

Arsenic/Thallium utilizing EPA Method 6020

CCR Title 22 (CAM 17) Metals utilizing EPA Method 6010B/7470A

The samples were composited as required and analyzed by Calscience Environmental Laboratories, 7440 Lincoln Way, Garden Grove, CA 92841, California, an independent certified testing laboratory approved by the State of California Department of Health Services (Accreditation Program Certification No. 1230). All analytical testing was accomplished under quality assurance/quality control guidelines in accordance with standard Method reporting limits, best laboratory practices, applicable standard operating procedures and other related documentation.

According to the Owners Authorized Representative (OAR), a Preliminary Environmental Assessment (PEA) Report does not exist for this site. Therefore it is not possible to compare the analytical results from the samples taken on August 14, 2008 with any previously existing site-specific background levels as described in Part 3, 3.01, F-1 of the LAUSD specifications.

Utilizing Part 3, 3.01, E and F-2 (a) of the LAUSD specifications, it has been determined that LAUSD contamination limits for benzene, ethylbenzene and toluene were exceeded.

A summary of the analytical parameters that did not meet the requirements of the LAUSD for use at a school site are summarized below:

SAMPLE NUMBER	DEFECTIVE ANALYTICAL PARAMETER
Cleveland 6	Benzene concentration exceeds laboratory reporting limit. (actual result 1.1 ug/kg – EPA Method 8260B) Toluene concentration exceeds laboratory reporting limit. (actual result 1.1 ug/kg – EPA Method 8260B)
Cleveland 7	Benzene concentration exceeds laboratory reporting limit. (actual result 1.6 ug/kg – EPA Method 8260B) Toluene concentration exceeds laboratory reporting limit. (actual result 1.4 ug/kg – EPA Method 8260B)
Cleveland 8	Benzene concentration exceeds laboratory reporting limit. (actual result 1.4 ug/kg – EPA Method 8260B) Toluene concentration exceeds laboratory reporting limit. (actual result 1.5 ug/kg – EPA Method 8260B)

The laboratory analytical and quality assurance/quality control results are located in APPENDIX A – Laboratory Analytical Results.

4.0 DETERMINATION OF WASTE CLASSIFICATION

4.1 – Classification for Use at a School Site

Based on the results of the laboratory testing and according to Part 3, 3.01, E and F-2 of the LAUSD specifications, the export material for this site meets the definition as environmentally defective and is not acceptable for use at a school site. No stockpiled soil with any concentration of volatile organic compounds (in this case benzene and toluene) may be reused at this school site or any other LAUSD school site.

4.2 – Classification as US EPA or California Hazardous Waste

In accordance with Table 2 and Table 3 of the LAUSD specifications along with applicable US EPA and State of California hazardous materials and hazardous waste regulations, this material meets the definition as a non-hazardous waste based on the following rationale:

- The analytical results for and EPA Method 6010B/7470A (Title 22 CAM Metals) and EPA Method 6020 (Metals by ICP/MS for Arsenic) are well below the Total Threshold Limit Concentration (TTLC), the 10 times Soluble Threshold Limit Concentration (STLC) values and the 20 times Toxicity Characteristic Leaching Procedure (TCLP) values. The soils contain up to 1.6 ug/kg (PPB) Benzene and 1.5 ug/kg (PPB) Toluene, well below established regulatory values. The soils contain None Detected (ND) at the indicated reporting limit for all remaining analytical parameters required by the LAUSD specifications.

RECOMMENDATIONS FOR FURTHER ACTION

Based on analytical results and the documentation of waste classifications, it is recommended that soils from this stockpile be transported and disposed of or reutilized at an appropriate facility approved by the LAUSD-OEHS. It is also recommended that soils be transported off site within 90 days to avoid retesting and recertification.

If you have any questions, comments or require further information regarding this project, please contact the undersigned at (562) 436-2614 during regular business hours.

Certification Report for Exported Soils Testing for Cleveland High School - Phase 2 prepared and certified by:

Patriot Environmental Services



Matthew J. Walker
Principal Engineer
California Civil Engineer 37369

APPENDIX A

LABORATORY ANALYTICAL REPORT

Calscience Environmental Laboratories, Inc.
California Department of Health Services Certification No. 0123



08-12-0161.pdf



January 25, 2010

Ms. Prudence Boczarski
OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
LOS ANGELES UNIFIED SCHOOL DISTRICT
333 South Beaudry Avenue
Los Angeles, California 90017

Re: CITADEL Project No. 2017.0237.0
Certification Report
Grover Cleveland High School
8140 Vanalden Avenue
Los Angeles, California 91335

Dear Ms. Boczarski:

Attached, please find a Certification Report detailing the sampling of the stockpiled soil that remains following the trenching operations at the above referenced Site. The Certification Report was prepared based on Citadel's Sampling Strategy Plan.

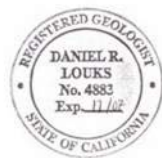
If you have any questions, please feel free to contact the undersigned by telephone at (714) 547-4301 or by email at kupthegrove@citadelenvironmental.com.

Sincerely,
CITADEL ENVIRONMENTAL SERVICES, INC.

A handwritten signature in black ink that reads "Karen Upthegrove".

Karen Upthegrove
Project Geologist

A handwritten signature in black ink that reads "Dan Louks".



Dan Louks, P.G.
California Professional Geologist #4883



An Employee-Owned Company

LOS ANGELES UNIFIED SCHOOL DISTRICT
OFFICE OF ENVIRONMENTAL HEALTH
333 SOUTH BEAUDRY AVENUE
LOS ANGELES, CALIFORNIA 90017

CITADEL
ENVIRONMENTAL
SERVICES, INC.

CERTIFICATION REPORT

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Los Angeles, California 91335

CITADEL Project Number 2017.0237.0

January 25, 2010



400 North Tustin Avenue, Suite 340, Santa Ana, California 92705
Phone: (714) 547-4301 Fax: (714) 547-4647
www.citadelenvironmental.com



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APPENDICES

Appendix A	Site Plan
Appendix B	Laboratory Report and Chain of Custody Documentation



1.0 INTRODUCTION & BACKGROUND

The Site is comprised of a portion of the Grover Cleveland High School campus. Trenching was performed on the campus in association with LAUSD's Trenching Service Entrance (TSE) Project.

The TSE Project provides an underground fiber optic cable connection between the school's main distribution frame (MDF) and AT&T's metropolitan area network (MAN).

No previous information regarding the analysis of soil or potential environmental concerns have been identified or provided to Citadel Environmental Services, Inc. (Citadel). Per LAUSD Section 01440 *Environmental Import/Export Materials Testing* protocols, Citadel followed the sampling strategy, based on the quantity of stockpiled soil that remains on-Site following the completion of the trenching activities. A plot plan identifying the location of the stockpiled soil is included as Figure 1.

After the completion of trenching, fill and compaction activities, approximately 5-6 cubic yards of soil remained on the Site, adjacent to the trenching area. According to Table 1 of Section 01440 *Environmental Import/Export Materials Testing*, an estimated soil quantity of less than 100 cubic yards requires one (1) composite sample of the stockpiled soil from the Site.

2.0 SOIL STOCKPILE SAMPLING

From the stockpiled soil on-Site, Citadel collected samples at three (3) locations within the stockpile, which were composited by the laboratory into one (1) sample for analysis. The three (3) portions of the soil sample were collected in 4-ounce glass jars, which were sealed with Teflon-lined caps, and Encore™ samplers, per EPA Method 5035. The sample containers were stored and transported in an ice chest cooled with ice to a temperature of approximately 4 degrees Celsius. The sample was collected and submitted, utilizing chain-of-custody (COC) procedures, to a California Department of Health Services (DHS) approved analytical laboratory certified to perform the requested analyses. A Site plan identifying the location of the trenching and sampling locations is included as Figure 1.

3.0 LABORATORY ANALYSIS

Based on the lack of previous soil analysis or specific contaminants of concern, soil samples were analyzed per Section 3.01, for total petroleum hydrocarbons (TPH - carbon chain for gas, diesel and oil – EPA Method 8015m), volatile organic compounds (VOCs by EPA Method 8260B), polychlorinated biphenyls (PCBs by EPA Method 8082), semi-volatile compounds (Semi-VOCs by EPA Method 8270C), organochlorine pesticides (EPA Method 8081A), chlorinated herbicides, (EPA Method 8151A), organophosphorous pesticides (EPA Method 8141A), Title 22 Metals (EPA Method 6010B), hexavalent chromium (EPA Method 7199) and arsenic/thallium (EPA Method 6020), and extracted utilizing EPA Method 5035. Copies of the chain-of-custody form, laboratory data and laboratory QA/QC documentation are included as Appendix A.



The laboratory analysis of the soil sample identified the presence of TPH in the oil range, at a concentration of 81 milligrams per kilogram (mg/kg). The sample did not contain a detectable concentration of TPH in the gasoline or diesel ranges.

The concentration detected, 81 mg/kg is well below the not to exceed level of 1,000 mg/kg for oil/diesel. Laboratory analysis did not identify the presence of VOCs, PCBs, Semi-VOCs, organochlorine pesticides, chlorinated herbicides, organophosphorous pesticides, or hexavalent chromium at concentrations above the laboratory method detection limits. Select Title 22 Metals (arsenic, barium, chromium, cobalt, copper, nickel, vanadium, and zinc) were identified at detectable concentrations and confirmed to be below 10% of the Total Threshold Limit Concentrations (TTLC), below ten times (10X) the soluble threshold limit concentration (STLC) and below 20 times (20X) the Toxicity Characteristic Leaching Procedure (TCLP) for each metal.

4.0 SUMMARY OF FINDINGS & RECOMMENDATIONS

Based on a review of the laboratory analysis and conditions on-Site, the stockpiled soil has not been adversely impacted by TPH, VOCs, PCBs, Semi-VOCs, organochlorine pesticides, chlorinated herbicides, organophosphorous pesticides, hexavalent chromium or Title 22 Metals and is considered non-hazardous and is not considered a regulated waste. No additional laboratory analysis is recommended. Per LAUSD Section 01440 *Environmental Import/Export Materials Testing* protocols, the soil is deemed acceptable for use at school sites.

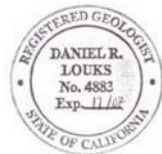
5.0 SIGNATURES

Certification Report prepared by:

A handwritten signature in black ink that reads "Karen Upthegrove".

Karen Upthegrove
Project Geologist

A handwritten signature in black ink that reads "Dan Louks".



Dan Louks, P.G.
California Professional Geologist #4883

CITADEL Project No. 2017.0237.0
Certification Report
Grover Cleveland High School
8140 Vanalden Avenue
Los Angeles, California
January 25, 2010

Privileged and Confidential
Client Work Product



APPENDIX A

SITE PLAN

CLEVELAND HIGH SCHOOL

Shut-off VALVES

⊗ EM = ELECTRICAL METER

EMSO = ELECTRICAL MAIN SHUT-OFF } SOUTH-EAST OF ROOM J-1

⊙ WATER = INDIVIDUAL SHUT-OFF IN FRONT OF EACH BUILDING

⊙ WMSO = WATER MAIN SHUT-OFF BEHIND CAFET. KITCHEN

⊙ IMSO = IRRIGATION SHUT-OFF, NORTHWEST CORNER OF ROOM H-29. Individual Irrigation shut-off on Base Ball & Football Fields. (I) Irrigation Timers (clock)

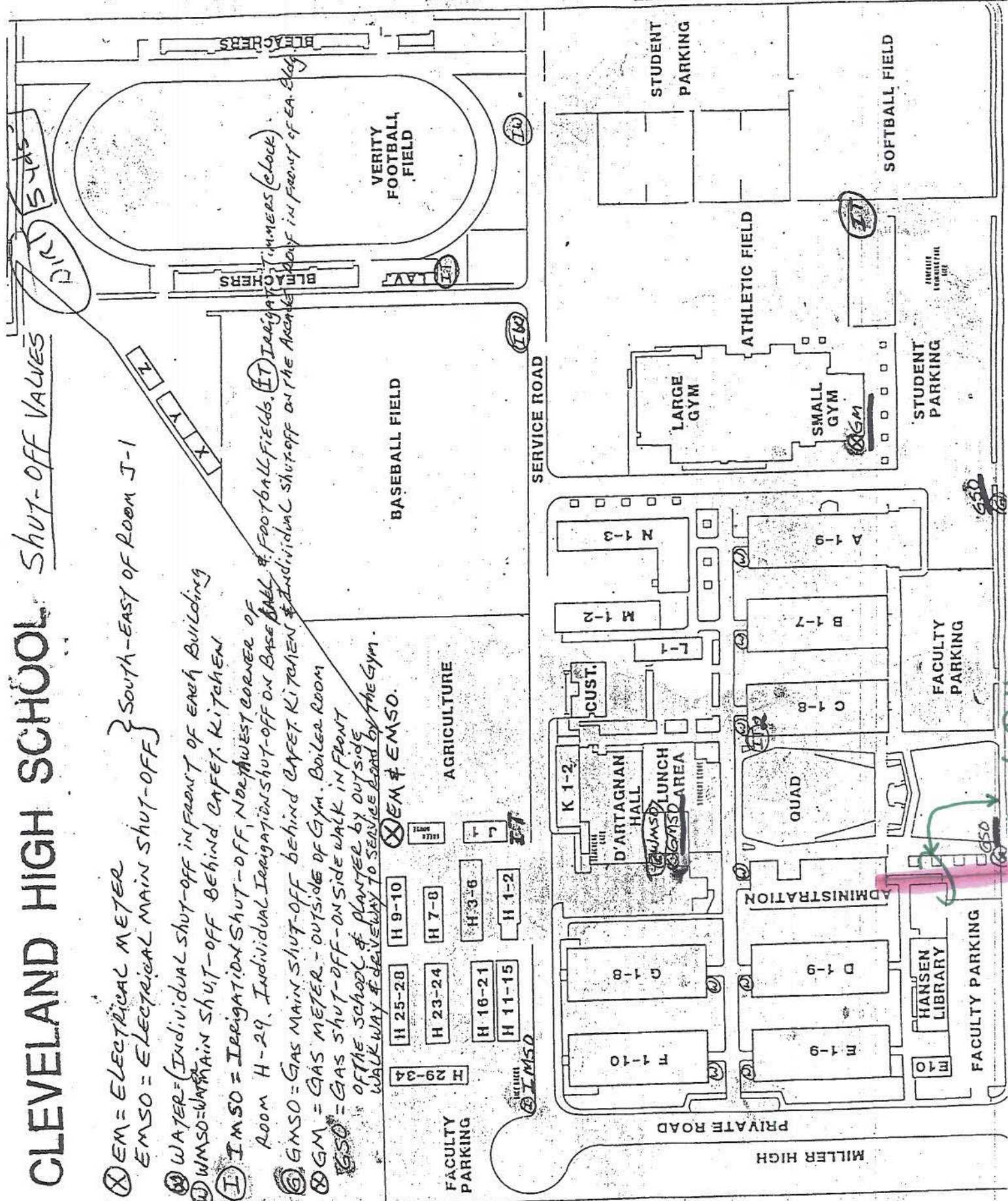
⊙ GMSO = GAS MAIN SHUT-OFF BEHIND CAFET. KITCHEN & Individual shut-off on the Avenue

⊙ GM = GAS METER - OUTSIDE OF GYM. Boiler Room

⊙ GSO = GAS SHUT-OFF - ON SIDE WALK IN FRONT OF THE SCHOOL & PLANTER BY OUTSIDE WALKWAY & DRIVEWAY TO SERVICE ROAD BY THE GYM.

⊗ EM # EMSO.

M W Main Water Shut-off on Side Wall
 Strathern St. Early Education Centre
 & Visitors Football field Restrooms.



STRATHERN STREET

SERVICE ROAD

PRIVATE ROAD

MILLER HIGH

Trench Pathway

CITADEL Project No. 2017.0237.0
Certification Report
Grover Cleveland High School
8140 Vanalden Avenue
Los Angeles, California
January 25, 2010

Privileged and Confidential
Client Work Product



APPENDIX B

Laboratory Report and Chain of Custody Documentation

CAL TECH Environmental Laboratories



6814 Rosecrans Avenue, Paramount, CA 90723-3146
 Telephone: (562) 272-2700 Fax: (562) 272-2789

ANALYTICAL RESULTS*

Client ID:
Client Name:

CT199-1001100
 Citadel Environmental
 400 N. Tustin Ave, Suite 340
 Santa Ana, CA 92705

Phone:(714) 547-4301
 Fax: (714) 547-4647

Attention:

Ms. Karen Upthegrove

Request ID:
Project Name:

LAUSD - 2017.0237
 Cleveland High School

Date Sampled:
Date Recd:
Date Analyzed:

01/14/10 @ 14:20 p.m.
 01/14/10 @ 16:00 p.m.
 01/15/10

Matrix: Soil
 Extraction Method: 5035

Method: (8260B, VOC by GC/MS - SW846)

Lab No.:
Client Sample ID:

1001-100-1
 CHS-01

Dilution

1

		Method	Units:	Detection Limit
Dichlorodifluoromethane	ND	EPA 8260B/5035	mg/Kg	0.005
Chloromethane	ND	EPA 8260B/5035	mg/Kg	0.005
Vinyl Chloride	ND	EPA 8260B/5035	mg/Kg	0.005
Bromomethane	ND	EPA 8260B/5035	mg/Kg	0.005
Chloroethane	ND	EPA 8260B/5035	mg/Kg	0.005
Trichlorofluoromethane	ND	EPA 8260B/5035	mg/Kg	0.005
Iodomethane	ND	EPA 8260B/5035	mg/Kg	0.005
Acetone	ND	EPA 8260B/5035	mg/Kg	0.005
1,1-Dichloroethene	ND	EPA 8260B/5035	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	EPA 8260B/5035	mg/Kg	0.02
Methylene Chloride	ND	EPA 8260B/5035	mg/Kg	0.02
Freon 113	ND	EPA 8260B/5035	mg/Kg	0.01
Carbon disulfide	ND	EPA 8260B/5035	mg/Kg	0.005
trans,1,2-Dichloroethene	ND	EPA 8260B/5035	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	EPA 8260B/5035	mg/Kg	0.005
1,1-Dichloroethane	ND	EPA 8260B/5035	mg/Kg	0.005
Vinyl acetate	ND	EPA 8260B/5035	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	EPA 8260B/5035	mg/Kg	0.005
Methyl Ethyl Ketone	ND	EPA 8260B/5035	mg/Kg	0.01
cis,1,2-Dichloroethene	ND	EPA 8260B/5035	mg/Kg	0.005
Bromochloromethane	ND	EPA 8260B/5035	mg/Kg	0.005
Chloroform	ND	EPA 8260B/5035	mg/Kg	0.005
2,2-Dichloropropane	ND	EPA 8260B/5035	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	EPA 8260B/5035	mg/Kg	0.005
1,1,1-Trichloroethane	ND	EPA 8260B/5035	mg/Kg	0.005
1,2-Dichloroethane	ND	EPA 8260B/5035	mg/Kg	0.005
1,1-Dichloropropene	ND	EPA 8260B/5035	mg/Kg	0.005
Carbon Tetrachloride	ND	EPA 8260B/5035	mg/Kg	0.005
Benzene	ND	EPA 8260B/5035	mg/Kg	0.002
t-Amyl Methyl Ether (TAME)	ND	EPA 8260B/5035	mg/Kg	0.005
1,2-Dichloropropane	ND	EPA 8260B/5035	mg/Kg	0.005
Trichloroethene	ND	EPA 8260B/5035	mg/Kg	0.005
Dibromomethane	ND	EPA 8260B/5035	mg/Kg	0.005
Bromodichloromethane	ND	EPA 8260B/5035	mg/Kg	0.005
2-Chloroethylvinylether	ND	EPA 8260B/5035	mg/Kg	0.005
cis,1,3-Dichloropropene	ND	EPA 8260B/5035	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	EPA 8260B/5035	mg/Kg	0.01
trans,1,3-Dichloropropene	ND	EPA 8260B/5035	mg/Kg	0.005
Toluene	ND	EPA 8260B/5035	mg/Kg	0.002
1,1,2-Trichloroethane	ND	EPA 8260B/5035	mg/Kg	0.005

(Continued)

CTEL Project No: CT199-1001100

Project ID: LAUSD - 2017.0237
 Project Name: Cleveland High School

Laboratory ID	Client Sample ID	Method	Units	Detection Limit
1001-100-1	CHS-01			
1,2-Dibromoethane(EDB)	ND	EPA 8260B/5035	mg/Kg	0.005
1,3-Dichloropropane	ND	EPA 8260B/5035	mg/Kg	0.005
Dibromochloromethane	ND	EPA 8260B/5035	mg/Kg	0.005
2-Hexanone	ND	EPA 8260B/5035	mg/Kg	0.01
Tetrachloroethene	ND	EPA 8260B/5035	mg/Kg	0.005
Chlorobenzene	ND	EPA 8260B/5035	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	EPA 8260B/5035	mg/Kg	0.005
Ethylbenzene	ND	EPA 8260B/5035	mg/Kg	0.002
m,p-Xylene	ND	EPA 8260B/5035	mg/Kg	0.002
Bromoform	ND	EPA 8260B/5035	mg/Kg	0.005
Styrene	ND	EPA 8260B/5035	mg/Kg	0.005
o-Xylene	ND	EPA 8260B/5035	mg/Kg	0.002
1,1,2,2-Tetrachloroethane	ND	EPA 8260B/5035	mg/Kg	0.005
1,2,3-Trichloropropane	ND	EPA 8260B/5035	mg/Kg	0.005
Isopropylbenzene	ND	EPA 8260B/5035	mg/Kg	0.005
Bromobenzene	ND	EPA 8260B/5035	mg/Kg	0.005
2-Chlorotoluene	ND	EPA 8260B/5035	mg/Kg	0.005
n-Propylbenzene	ND	EPA 8260B/5035	mg/Kg	0.005
4-Chlorotoluene	ND	EPA 8260B/5035	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	EPA 8260B/5035	mg/Kg	0.005
tert-Butylbenzene	ND	EPA 8260B/5035	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	EPA 8260B/5035	mg/Kg	0.005
sec-Butylbenzene	ND	EPA 8260B/5035	mg/Kg	0.005
1,3-Dichlorobenzene	ND	EPA 8260B/5035	mg/Kg	0.005
1,4-Dichlorobenzene	ND	EPA 8260B/5035	mg/Kg	0.005
p-Isopropyltoluene	ND	EPA 8260B/5035	mg/Kg	0.005
1,2-Dichlorobenzene	ND	EPA 8260B/5035	mg/Kg	0.005
n-Butylbenzene	ND	EPA 8260B/5035	mg/Kg	0.005
1,2-Dibromo-3-Chloropropane	ND	EPA 8260B/5035	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	EPA 8260B/5035	mg/Kg	0.005
Naphthalene	ND	EPA 8260B/5035	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	EPA 8260B/5035	mg/Kg	0.005
Hexachlorobutadiene	ND	EPA 8260B/5035	mg/Kg	0.005

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE		% SURROGATE RECOVERY	Control Limit
Dibromofluoromethane	96		70-130
1,2-Dichloromethane-d4	128		70-130
Toluene-d8	87		70-130
Bromofluorobenzene	128		70-130

CIELL Project No: CT199-1001100
Client Name: Citadel Environmental
 400 N. Tustin Ave, Suite 340
 Santa Ana, CA 92705
Attention: Ms. Karen Upthegrove

Phone:(714) 547-4301
Fax: (714) 547-4647

Project ID: LAUSD - 2017.0237
Project Name: Cleveland High School

Date Sampled: 01/14/10 @ 14:20 p.m.
Date Received: 01/14/10 @ 16:00 p.m.
Date Analyzed: 01/15/10

Matrix: Soil

Method: (M8015G, TPH Carbon Chain by GC/FID)

Laboratory ID: 1001-100-1
Client Sample ID: CHS-01

		Method	Units	Detection Limit
Carbon Chain (C5~C12)	ND	EPA 8015M	mg/Kg	0.1
Carbon Chain (C13~C24)	ND	EPA 8015M	mg/Kg	1
Carbon Chain (C25~C40)	81	EPA 8015M	mg/Kg	5

ND = Not Detected at the indicated Detection Limit

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Project ID: LAUSD - 2017.0237
Project Name: Cleveland High School

Date Sampled: 01/14/10 @ 14:20 p.m.
Date Received: 01/14/10 @ 16:00 p.m.
Date Analyzed: 01/18/10

Matrix: Soil

Method: (8270C, SVOC by GC/MS - SW846)

Laboratory ID: 1001-100-1
Client Sample ID: CHS-01 Comp

Dilution

1

		Method	Units:	Detection Limit
1,2,4-Trichlorobenzene	ND	EPA 8270C	ug/Kg	250
1,2-Dichlorobenzene	ND	EPA 8270C	ug/Kg	250
1,3-Dichlorobenzene	ND	EPA 8270C	ug/Kg	250
1,4-Dichlorobenzene	ND	EPA 8270C	ug/Kg	250
2,4,5-Trichlorophenol	ND	EPA 8270C	ug/Kg	250
2,4,6-Trichlorophenol	ND	EPA 8270C	ug/Kg	250
2,4-dichlorophenol	ND	EPA 8270C	ug/Kg	1000
2,4-Dimethylphenol	ND	EPA 8270C	ug/Kg	250
2,4-Dinitrophenol	ND	EPA 8270C	ug/Kg	1000
2,4-Dinitrotoluene	ND	EPA 8270C	ug/Kg	250
2,6-Dinitrotoluene	ND	EPA 8270C	ug/Kg	250
2-Chloronaphthalene	ND	EPA 8270C	ug/Kg	250
2-Chlorophenol	ND	EPA 8270C	ug/Kg	250
2-Methylnaphthalene	ND	EPA 8270C	ug/Kg	250
2-Methylphenol	ND	EPA 8270C	ug/Kg	250
2-Nitroaniline	ND	EPA 8270C	ug/Kg	1000
2-Nitrophenol	ND	EPA 8270C	ug/Kg	250
3,3'-Dichlorobenzidine	ND	EPA 8270C	ug/Kg	500
3-Nitroaniline	ND	EPA 8270C	ug/Kg	1000
4,6-Dinitro-2-methylphenol	ND	EPA 8270C	ug/Kg	1000
4-Bromophenyl-phenylether	ND	EPA 8270C	ug/Kg	250
4-Chloro-3-methylphenol	ND	EPA 8270C	ug/Kg	500
4-Chloroaniline	ND	EPA 8270C	ug/Kg	500
4-Chlorophenyl-phenylether	ND	EPA 8270C	ug/Kg	250
4-Methylphenol	ND	EPA 8270C	ug/Kg	250
4-nitroaniline	ND	EPA 8270C	ug/Kg	1000
4-Nitrophenol	ND	EPA 8270C	ug/Kg	1000
Acenaphthene	ND	EPA 8270C	ug/Kg	250
Acenaphthylene	ND	EPA 8270C	ug/Kg	250
Anthracene	ND	EPA 8270C	ug/Kg	250
Benzidine (M)	ND	EPA 8270C	ug/Kg	1000
Benzo(a)anthracene	ND	EPA 8270C	ug/Kg	250
Benzo(a)pyrene	ND	EPA 8270C	ug/Kg	250
Benzo(b)fluoranthene	ND	EPA 8270C	ug/Kg	500
Benzo(g,h,i)perylene	ND	EPA 8270C	ug/Kg	250
Benzo(k)fluoranthene	ND	EPA 8270C	ug/Kg	250
Benzoic acid	ND	EPA 8270C	ug/Kg	1000
Benzyl alcohol	ND	EPA 8270C	ug/Kg	500
Bis(2-chloroethoxy)methane	ND	EPA 8270C	ug/Kg	250
Bis(2-chloroethyl)ether	ND	EPA 8270C	ug/Kg	250

(Continued)

CTPSL Project No: CT199-1001100

LAUSD - 2017.0237
 Project Name: Cleveland High School

1001-100-1
 CHS-01 Comp

		Method	Units	Detection Limit
Bis(2-chloroisopropyl)ether	ND	EPA 8270C	ug/Kg	250
Bis(2-ethylhexyl)phthalate	ND	EPA 8270C	ug/Kg	250
Butylbenzylphthalate	ND	EPA 8270C	ug/Kg	250
Chrysene	ND	EPA 8270C	ug/Kg	250
Di-n-butylphthalate	ND	EPA 8270C	ug/Kg	250
Di-n-octylphthalate	ND	EPA 8270C	ug/Kg	250
Dibenzo(a,h)anthracene	ND	EPA 8270C	ug/Kg	250
Dibenzofuran	ND	EPA 8270C	ug/Kg	250
Diethylthalate	ND	EPA 8270C	ug/Kg	250
Dimethylphthalate	ND	EPA 8270C	ug/Kg	250
Fluoranthene	ND	EPA 8270C	ug/Kg	250
Fluorene	ND	EPA 8270C	ug/Kg	250
Hexachlorobenzene	ND	EPA 8270C	ug/Kg	250
Hexachlorobutadiene	ND	EPA 8270C	ug/Kg	500
Hexachloropentadiene	ND	EPA 8270C	ug/Kg	500
Hexachloroethane	ND	EPA 8270C	ug/Kg	250
Indeno(1,2,3-cd)pyrene	ND	EPA 8270C	ug/Kg	250
Isophorone	ND	EPA 8270C	ug/Kg	250
N-Nitrosodi-n-propylamine	ND	EPA 8270C	ug/Kg	250
N-Nitrosodimethylamine	ND	EPA 8270C	ug/Kg	250
Naphthalene	ND	EPA 8270C	ug/Kg	250
Nitrobenzene	ND	EPA 8270C	ug/Kg	330
Pentachlorophenol	ND	EPA 8270C	ug/Kg	1000
Phenanthrene	ND	EPA 8270C	ug/Kg	250
Phenol	ND	EPA 8270C	ug/Kg	250
Pyrene	ND	EPA 8270C	ug/Kg	250

ND = Not Detected at the indicated Detection Limit

Client Name: CT199-1001100
 Citadel Environmental
 400 N. Tustin Ave, Suite 340
 Santa Ana, CA 92705
Attention: Ms. Karen Upthegrove

Phone:(714) 547-4301
Fax: (714) 547-4647

Project ID: LAUSD - 2017.0237
Project Name: Cleveland High School

Date Sampled: 01/14/10 @ 14:20 p.m.
 01/14/10 @ 16:00 p.m.
 01/18/10 - 01/19/10

Matrix: Soil

Method: (6010B/7000, CAM 17-Title 22 Metals - SW-846)

Lab ID: 1001-100-1
Client Sample ID: CHS-01 Comp

		Method	Units	Detection Limit
Title 22 Metals, Solid				
Antimony (Sb)	ND	SW846 6010B	mg/Kg	1
Arsenic (As)	3.5	SW846 6020B	mg/Kg	0.01
Barium (Ba)	380	SW846 6010B	mg/Kg	0.5
Beryllium (Be)	ND	SW846 6010B	mg/Kg	1
Cadmium (Cd)	ND	SW846 6010B	mg/Kg	1
Chromium (Cr)	35	SW846 6010B	mg/Kg	1
Cobalt (Co)	5.9	SW846 6010B	mg/Kg	1
Copper (Cu)	72	SW846 6010B	mg/Kg	1
Lead (Pb)	ND	SW846 6010B	mg/Kg	1
Mercury (Hg)	ND	SW846 7471	mg/Kg	0.05
Molybdenum (Mo)	ND	SW846 6010B	mg/Kg	1
Nickel (Ni)	65	SW846 6010B	mg/Kg	1
Selenium (Se)	ND	SW846 6010B	mg/Kg	1
Silver (Ag)	ND	SW846 6010B	mg/Kg	1
Thallium (Tl)	ND	SW846 6020B	mg/Kg	0.02
Vanadium (V)	130	SW846 6010B	mg/Kg	1
Zinc (Zn)	140	SW846 6010B	mg/Kg	1

Acid, Extraction 01/15/10 SW846 3050 Date

ND = Not Detected at the indicated Detection Limit

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 Santa Ana, CA 92705
Attention: Ms. Karen Upthegrove

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Project ID: LAUSD - 2017.0237
Project Name: Cleveland High School

Sample Date: 01/14/10 @ 14:20 p.m.
 01/14/10 @ 16:00 p.m.
Date Analyzed: 01/18/10

Matrix: Soil

Laboratory ID: 1001-100-1
Client Sample ID: CHS-01 Comp

Method	Units	Detection Limit
EPA 7199	mg/Kg	0.2

Chromium VI ND

ND = Not Detected at the indicated Detection Limit

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Attention: Ms. Karen Upthegrove

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Project ID: LAUSD - 2017.0237
Project Name: Cleveland High School

Date Sampled: 01/14/10 @ 14:20 p.m.
Date Received: 01/14/10 @ 16:00 p.m.
Date Analyzed: 01/18/10

Matrix: Soil

Method: (8081, OCP by GC)

Laboratory ID: 1001-100-1
Client Sample ID: CHS-01 Comp
Dilution: 1

Method	Units:	Detection Limit
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	2.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	1.0
EPA 8081A	ug/Kg	5.0
EPA 8081A	ug/Kg	85

4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Aldrin	ND
alpha-BHC	ND
alpha-Chlordane	ND
beta-BHC	ND
Chlordane	ND
delta-BHC	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan sulfate	ND
Endrin	ND
Endrin aldehyde	ND
Endrin ketone	ND
gamma-BHC	ND
gamma-Chlordane	ND
Heptachlor	ND
Heptachlore epoxide	ND
Methoxychlor	ND
Toxaphene	ND

ND = Not Detected at the indicated Detection Limit

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Date Sampled: 01/14/10 @ 14:20 p.m.
Date Received: 01/14/10 @ 16:00 p.m.
Date Analyzed: 01/18/10

Matrix: Soil

Method: (8082, PCB by GC)

Laboratory ID: 1001-100-1
Client Sample ID: CHS-01 Comp
Dilution: 1

Method	Units:	Detection Limit
EPA 8082	ug/Kg	0.30
EPA 8082	ug/Kg	0.65
EPA 8082	ug/Kg	0.30
EPA 8082	ug/Kg	0.30
EPA 8082	ug/Kg	0.30
EPA 8082	ug/Kg	0.30
EPA 8082	ug/Kg	0.30
EPA 8082	ug/Kg	0.30
EPA 8082	ug/Kg	0.30

Aroclor - 1016 (PCB-1016) ND
 Aroclor - 1221 (PCB-1221) ND
 Aroclor - 1232 (PCB-1232) ND
 Aroclor - 1242 (PCB-1242) ND
 Aroclor - 1248 (PCB-1248) ND
 Aroclor - 1254 (PCB-1254) ND
 Aroclor - 1260 (PCB-1260) ND
 Aroclor - 1262 (PCB-1262) ND
 Aroclor - 1268 (PCB-1268) ND

ND = Not Detected at the indicated Detection Limit

Project ID: CT199-1001100
Client Name: Citadel Environmental
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 Santa Ana, CA 92705
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Project ID: LAUSD - 2017.0237
Project Name: Cleveland High School

Date Sampled: 01/14/10 @ 14:20 p.m.
 01/14/10 @ 16:00 p.m.
Date Analyzed: 01/18/10

Matrix: Soil

Method: (8141A, OPP by GC)

Laboratory ID: 1001-100-1
Client Sample ID: CHS-01 Comp
Dilution: 1

		Method	Units:	Detection Limit
Azinphos Methyl	ND	EPA 8141A	ug/Kg	5.0
Boistar	ND	EPA 8141A	ug/Kg	5.0
Coumaphos	ND	EPA 8141A	ug/Kg	5.0
Demeton	ND	EPA 8141A	ug/Kg	5.0
Diazinon	ND	EPA 8141A	ug/Kg	5.0
Dichlorvos	ND	EPA 8141A	ug/Kg	5.0
Disulfoton	ND	EPA 8141A	ug/Kg	5.0
Dursban (Chlorpyrifos)	ND	EPA 8141A	ug/Kg	5.0
Ethoprop	ND	EPA 8141A	ug/Kg	10
Fensulfothion	ND	EPA 8141A	ug/Kg	5.0
Fenthion	ND	EPA 8141A	ug/Kg	5.0
Gardona (Stirophos)	ND	EPA 8141A	ug/Kg	5.0
Malathion	ND	EPA 8141A	ug/Kg	5.0
Merphos	ND	EPA 8141A	ug/Kg	5.0
Methyl Parathion	ND	EPA 8141A	ug/Kg	5.0
Mevinphos	ND	EPA 8141A	ug/Kg	5.0
Naled	ND	EPA 8141A	ug/Kg	5.0
Phorate	ND	EPA 8141A	ug/Kg	5.0
Ronnel	ND	EPA 8141A	ug/Kg	5.0
Tokuthion	ND	EPA 8141A	ug/Kg	5.0
Trichloronate	ND	EPA 8141A	ug/Kg	5.0

ND = Not Detected at the indicated Detection Limit

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Date Sampled: 01/14/10 @ 14:20 p.m.
Date Received: 01/14/10 @ 16:00 p.m.
Date Analyzed: 01/18/10

Matrix: Soil

Method: (8151A, Herbicides by GC)

Laboratory ID: 1001-100-1
Client Sample ID: CHS-01 Comp

Dilution		Method	Units:	Detection Limit
	1			
2,4,5-T	ND	EPA 8151A	ug/Kg	1
2,4-DB	ND	EPA 8151A	ug/Kg	5
2,4-D	ND	EPA 8151A	ug/Kg	1
Dalapon	ND	EPA 8151A	ug/Kg	0.5
Dicamba	ND	EPA 8151A	ug/Kg	1
Dichloroprop	ND	EPA 8151A	ug/Kg	1
Dinoseb	ND	EPA 8151A	ug/Kg	1
MCPA	ND	EPA 8151A	ug/Kg	200
MCPP	ND	EPA 8151A	ug/Kg	150
4-Nitrophenol	ND	EPA 8151A	ug/Kg	5
Pentachlorophenol	ND	EPA 8151A	ug/Kg	1
Silvex	ND	EPA 8151A	ug/Kg	1

ND = Not Detected at the indicated Detection Limit



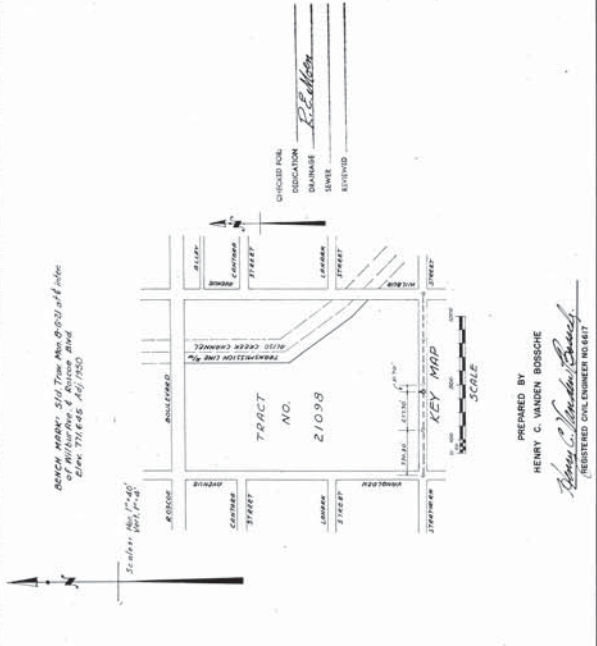
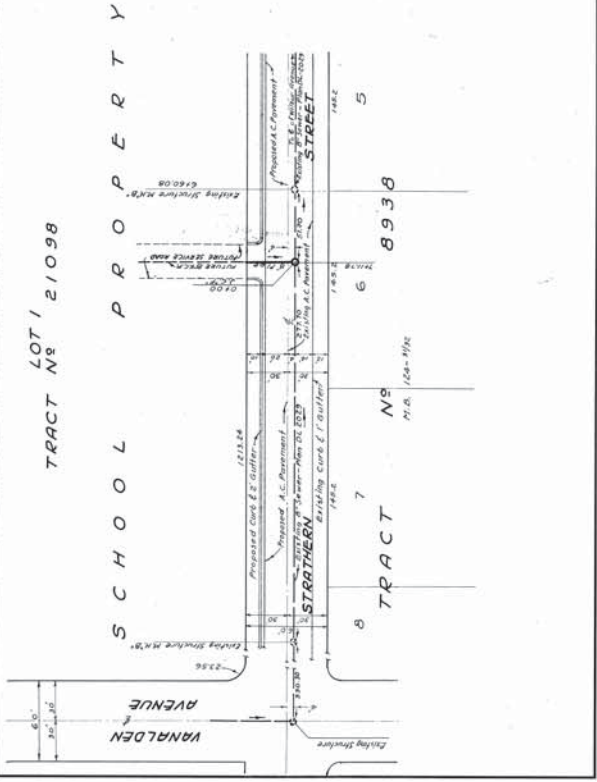
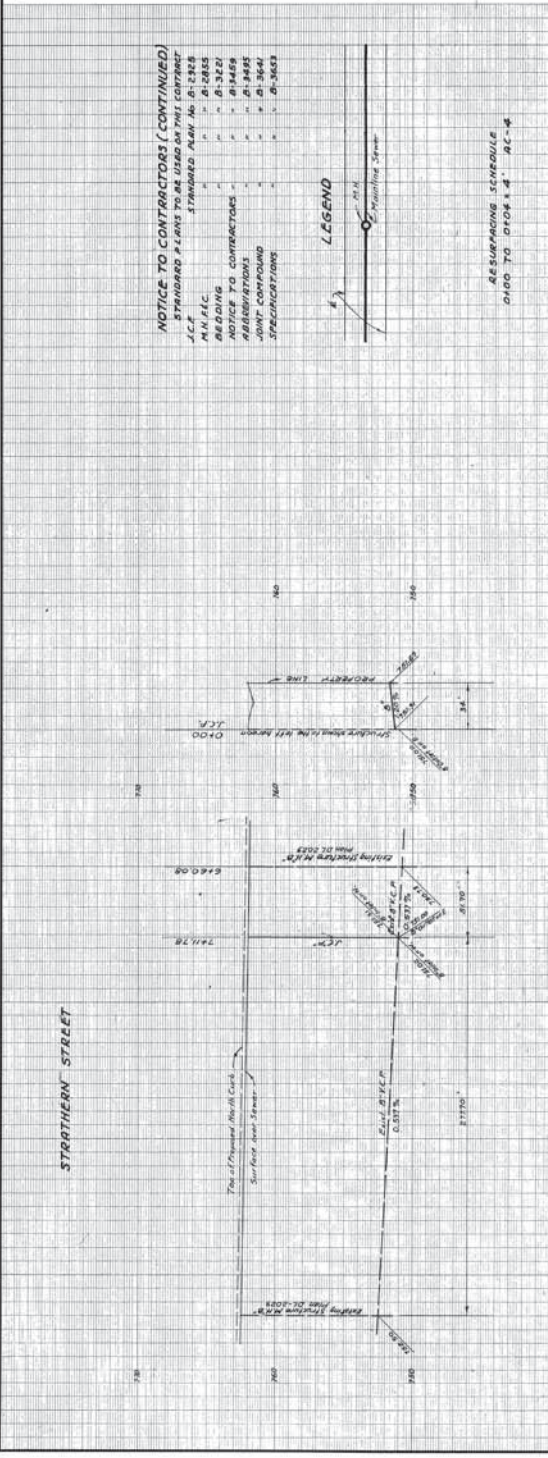
Greg Tejerian
 Laboratory Director

*The results are base upon the sample received.

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

D-13434

DATE	APPROVED	BY



PLAN AND PROFILE
OF SANITARY SEWER
IN
STRATHERN STREET
AT A POINT
608.50 FT. EASTERLY OF VANALDEN AVENUE

CITY OF LOS ANGELES
LYALL A. PARBEE, CITY ENGINEER

DATUM NOTE
MADRID CONDUIT & PIPE TO DATUM PLAIN
USE FROM TO AND DATE

REFERENCES
PLAN SHEET NO. 7-1318
ASSEMBLY AND DATE 1922

NOTICE TO CONTRACTORS
THIS DRAWING SPECIAL PLANS AND TYPICAL
DETAILS ARE TO BE USED FOR THE
CONSTRUCTION OF THE WORK

CONTRACTOR SHALL BE RESPONSIBLE FOR
OBTAINING ALL NECESSARY PERMITS
AND FOR THE PROTECTION OF ALL
EXISTING UTILITIES

NO. 6. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS
AND THE STANDARD SPECIFICATIONS FOR THE CITY OF LOS ANGELES
AS PUBLISHED BY THE CITY ENGINEER

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APPROVALS

DATE	BY

DESIGNED BY
CHECKED BY
DRAWN BY
DATE

APPROVED BY
DATE

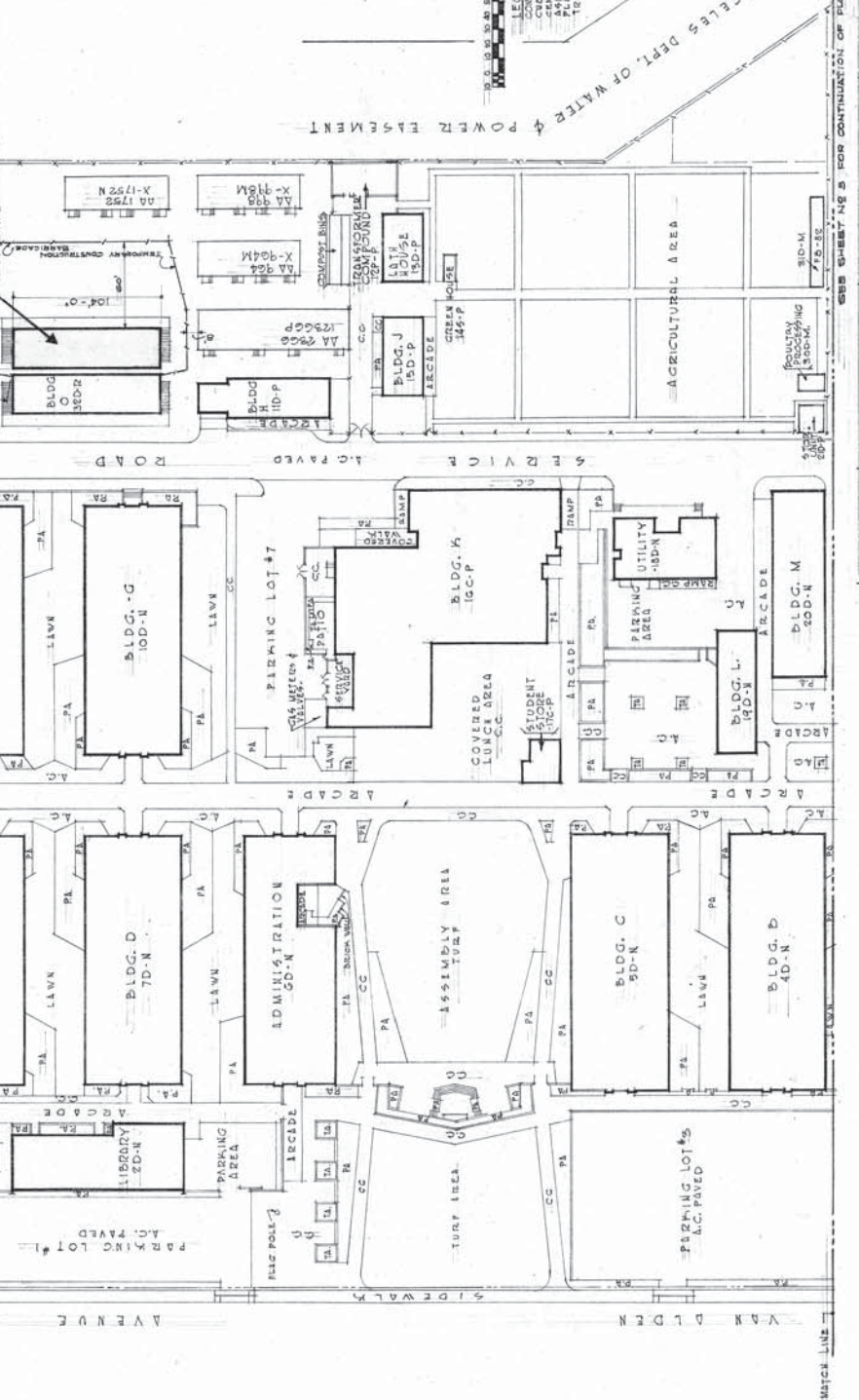
WALDEN AVENUE AND STRATHERN STREET I.D.
DESIGN PERMIT B-9796 CONSTRUCTION PERMIT B-1093

PREPARED BY
HENRY C. VANDEN BOSCH
REGISTERED CIVIL ENGINEER NO. 6417

CLEVELAND HIGH SCHOOL
8590.00
533

TABULATION OF AREA	
ROOM DESIGNATION	TOTAL AREA
2 CLASS ROOMS	1060
2 CLASS ROOMS	1060
STORAGE & WORK RM.	1060
BOYS TOILET	251
GIRLS TOILET	251
FACULTY TOILET	251
MULTI-PURPOSE	251
COVERED ENCLOSURE	580
LOW TERRACE & BALCONY	210
EXT. STAIRS (3)	210

TABULATION OF AREA	
ROOM DESIGNATION	TOTAL AREA
2 CLASS ROOMS	1060
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COVERED ENCLOSURE	580
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EXT. STAIRS (3)	210



LEGEND
 1. CONC. W/ REINFORCING
 2. CONCRETE
 3. BRICK
 4. PLASTER
 5. PAINT
 6. GLASS
 7. METAL
 8. WOOD
 9. OTHER

Los Angeles Dept. of Water & Power Easement

Match Line
 8590.00
 AS-BUILT 4/25/60

PLOT PLAN, NORTH

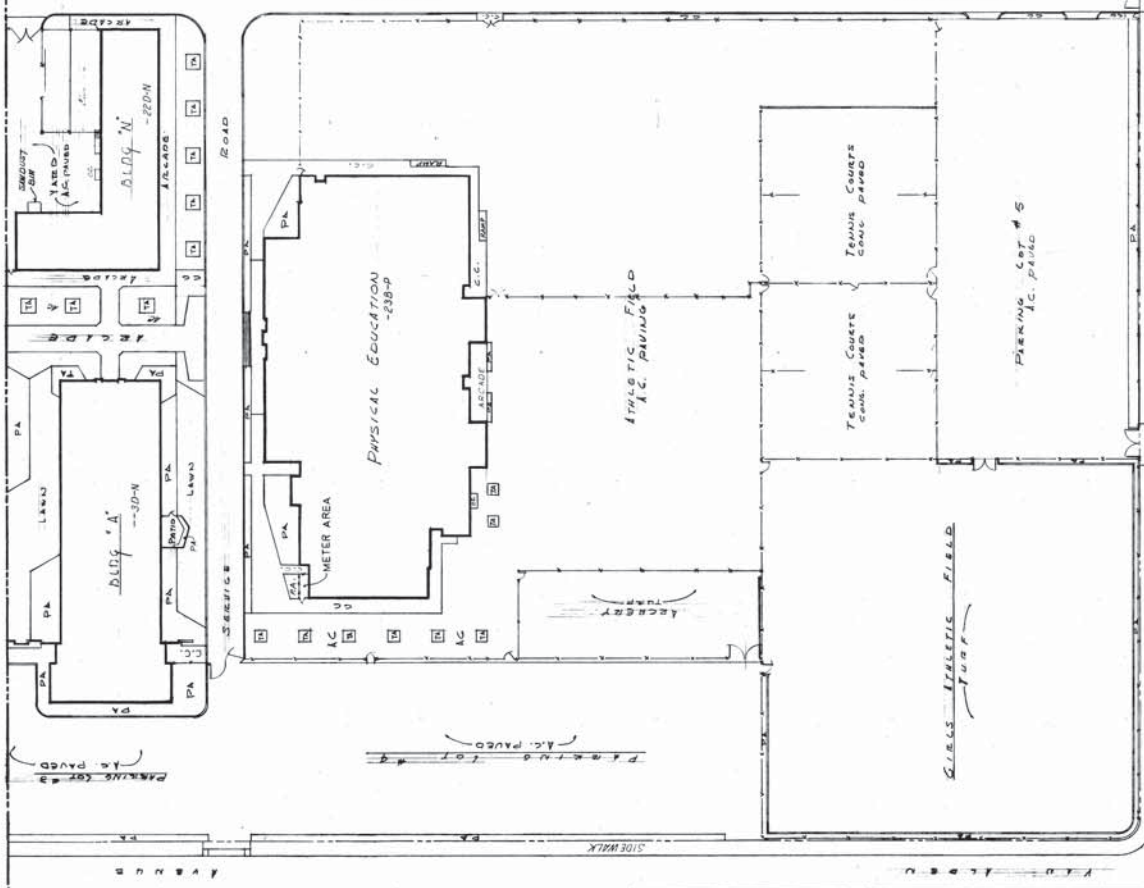
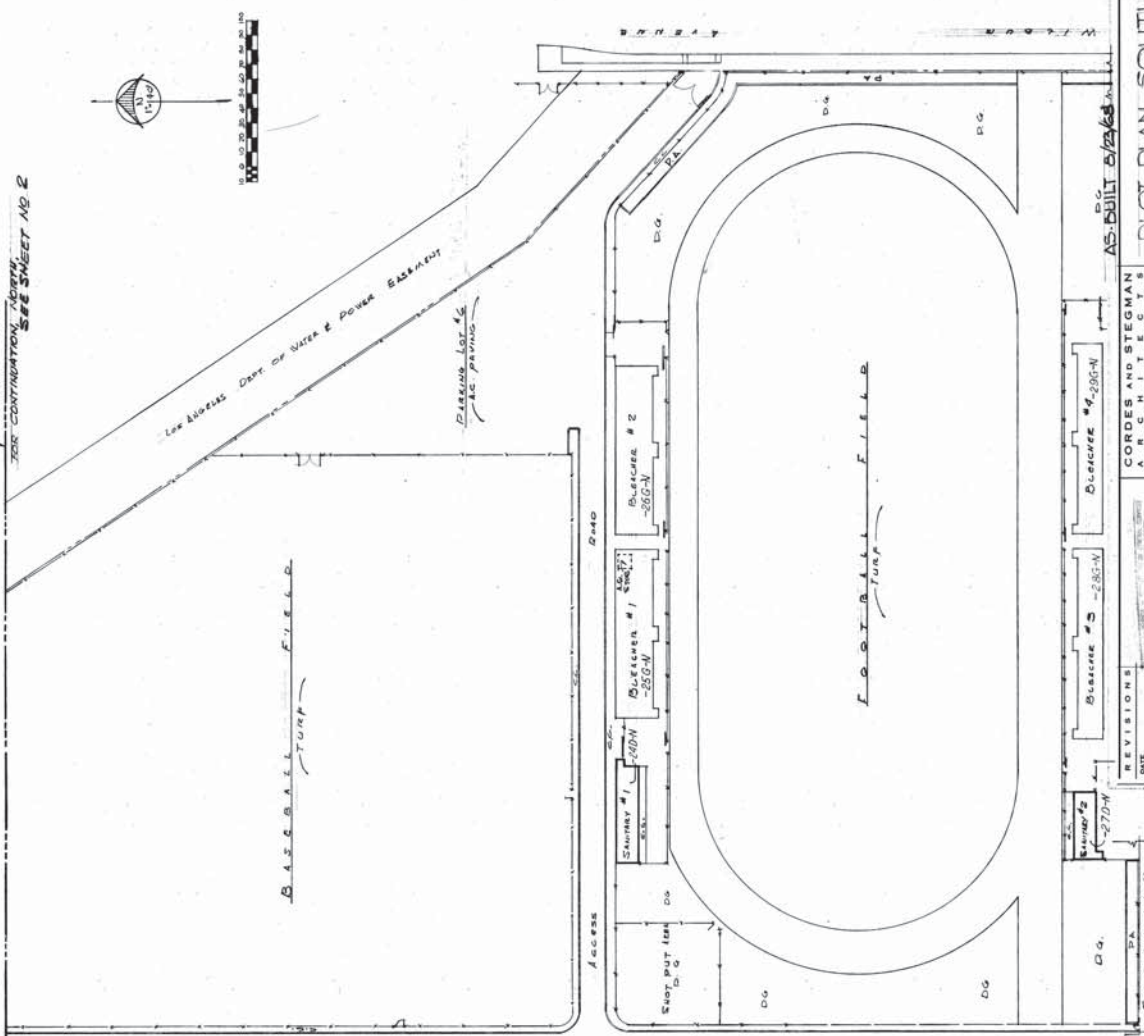
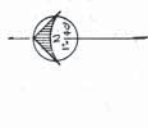
PREPARED FOR
 STATE FIRE MARSHAL
 STATE OF CALIFORNIA
 DATE 11-30-57

REVISIONS
 29384 - 10/30/58
 11-30-57

SCALE 1"=40'-0"

8590.00
 2

ASTEN LINE
FOR CONTINUATION WORK
SEE SHEET NO 2



AS-BUILT *2/19/57*
PLOT PLAN, SOUTH

CORDES AND STEGMAN
ARCHITECTS
LOS ANGELES CALIFORNIA

STORMS AND LOWE
ENGINEERS
LOS ANGELES CALIFORNIA

STATE FIRE MARSHAL
STATE OF CALIFORNIA
DATE 7-6-57

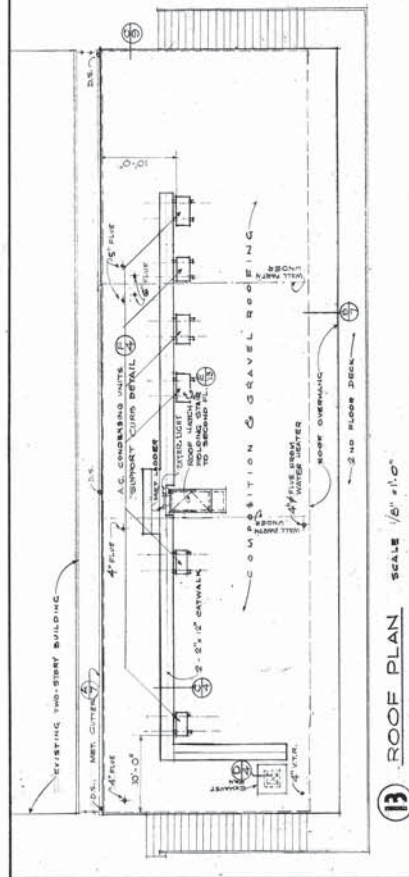
REVISIONS
DATE

CLASSROOM BUILDING AT
GROVER CLEVELAND HIGH SCHOOL
REDA, CALIFORNIA

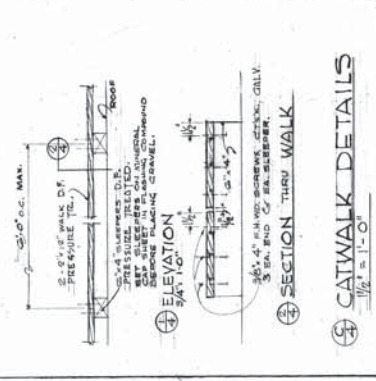
THE BOARD OF EDUCATION
LOS ANGELES UNIFIED SCHOOL DISTRICT

8590.00 PLOTTED

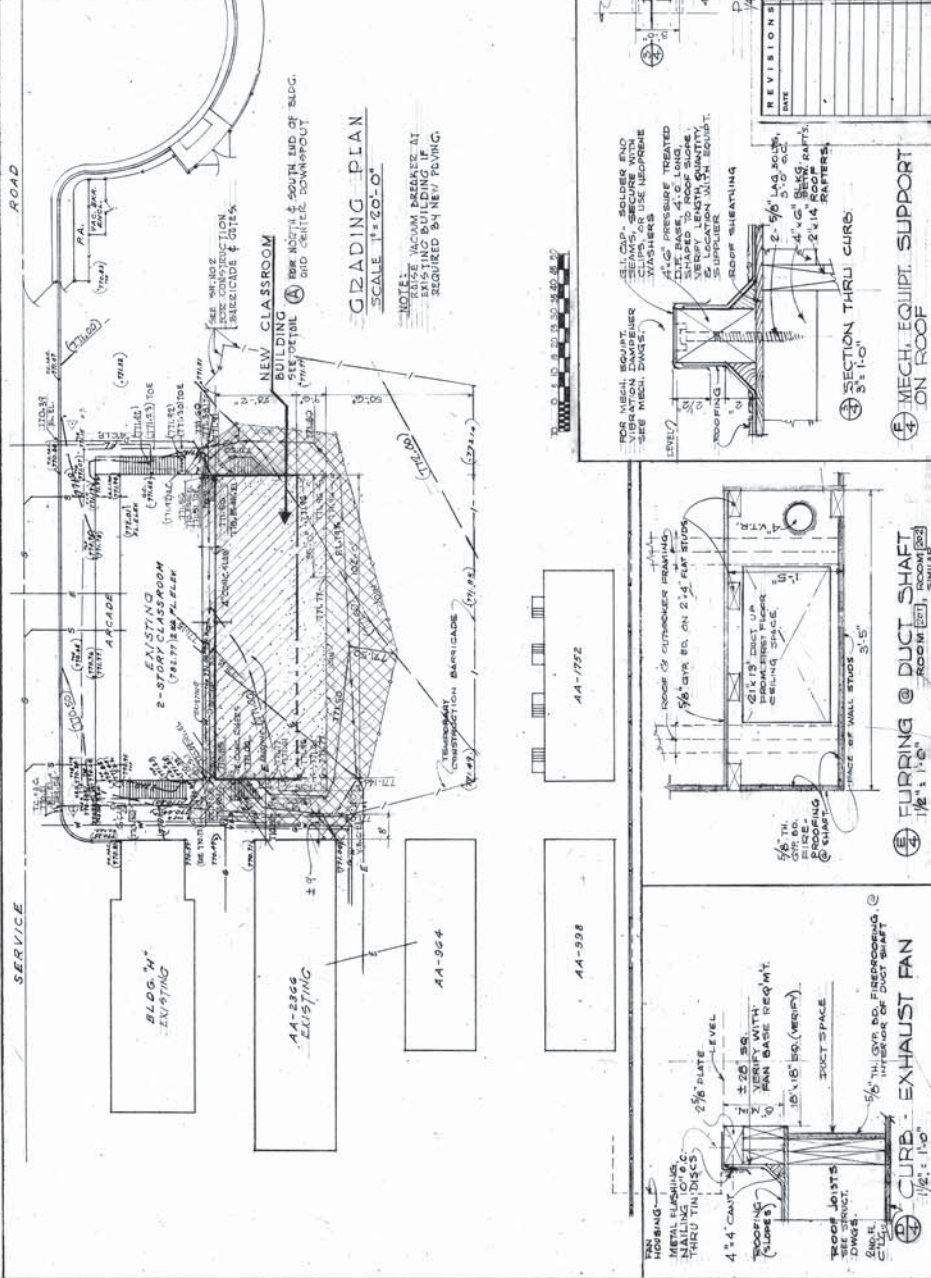
LEGEND:
SWIM LINK FENCE
CEMENT CONCRETE
PLANTED AREA



13 ROOF PLAN SCALE 1/8" = 1'-0"

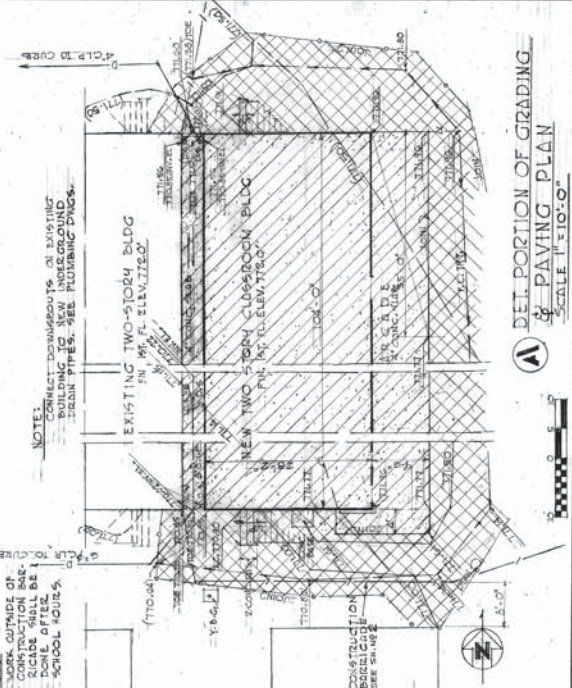


SECTION THRU WALK
CATWALK DETAILS
SCALE 1/4" = 1'-0"



GRADING PLAN SCALE 1/2" = 1'-0"

14 DEL. PORTION OF GRADING & PAVING PLAN SCALE 1/2" = 1'-0"



DEL. PORTION OF GRADING & PAVING PLAN
SCALE 1/2" = 1'-0"

LEGEND

- CENTER LINE
- PROPERTY LINE
- RIDGE LINE
- SLOPE CHARGE
- FIRE SPRINKLER LINE
- GAS LINE
- WATER LINE
- PLANTING AREA
- MAINTENANCE
- DOWN SPOUT
- TOP OF CURB
- EXISTING GRADE CONTOURS (7'5.0)
- EXISTING FLOW LINE (7'11.0)
- CRADING LIMITS G.L.
- NEW CEMENT CONCRETE
- NEW ASPHALT CONCRETE
- REMOVE AND REPLACE EXISTING
- LOGAN LINE, CRT. FROM ROOF
- CONSTRUCTION AREA/GROUSE
- EXISTING DOWN SPOUT
- INVENT. ELEVATION
- ASPHALTIC CONCRETE

CORDES AND STEGEMAN ARCHITECTS
 1088 WEST 13TH STREET
 LOS ANGELES, CALIFORNIA 90058

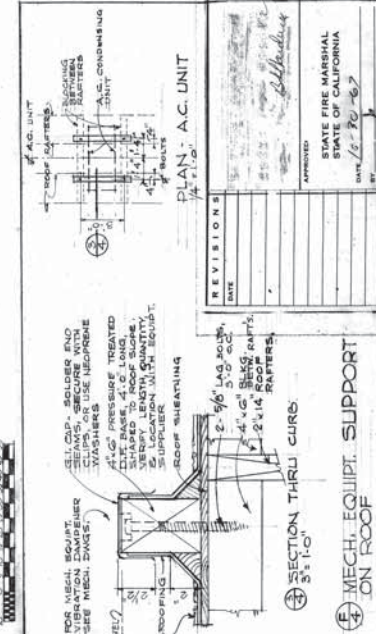
GRADING & ROOF PLANS

ROFF AND ROFF
 503 WEST 10TH STREET
 LOS ANGELES, CALIFORNIA 90057

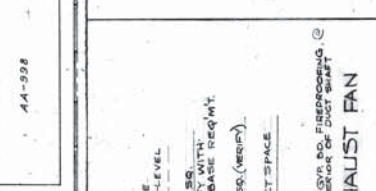
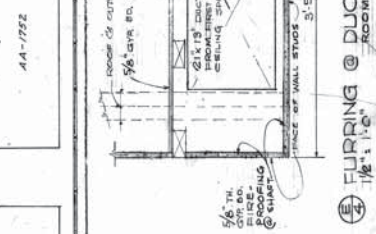
STORMS AND LOWE
 MECHANICAL & ELECTRICAL ENGINEERS
 1234 WEST 13TH STREET
 LOS ANGELES, CALIFORNIA 90058

PREPARED FOR ATTENTION
 THE BOARD OF SUPERVISORS
 LOS ANGELES UNIFIED SCHOOL DISTRICT

DATE: 6/23/68
 SHEET NO. 4
 OF 5

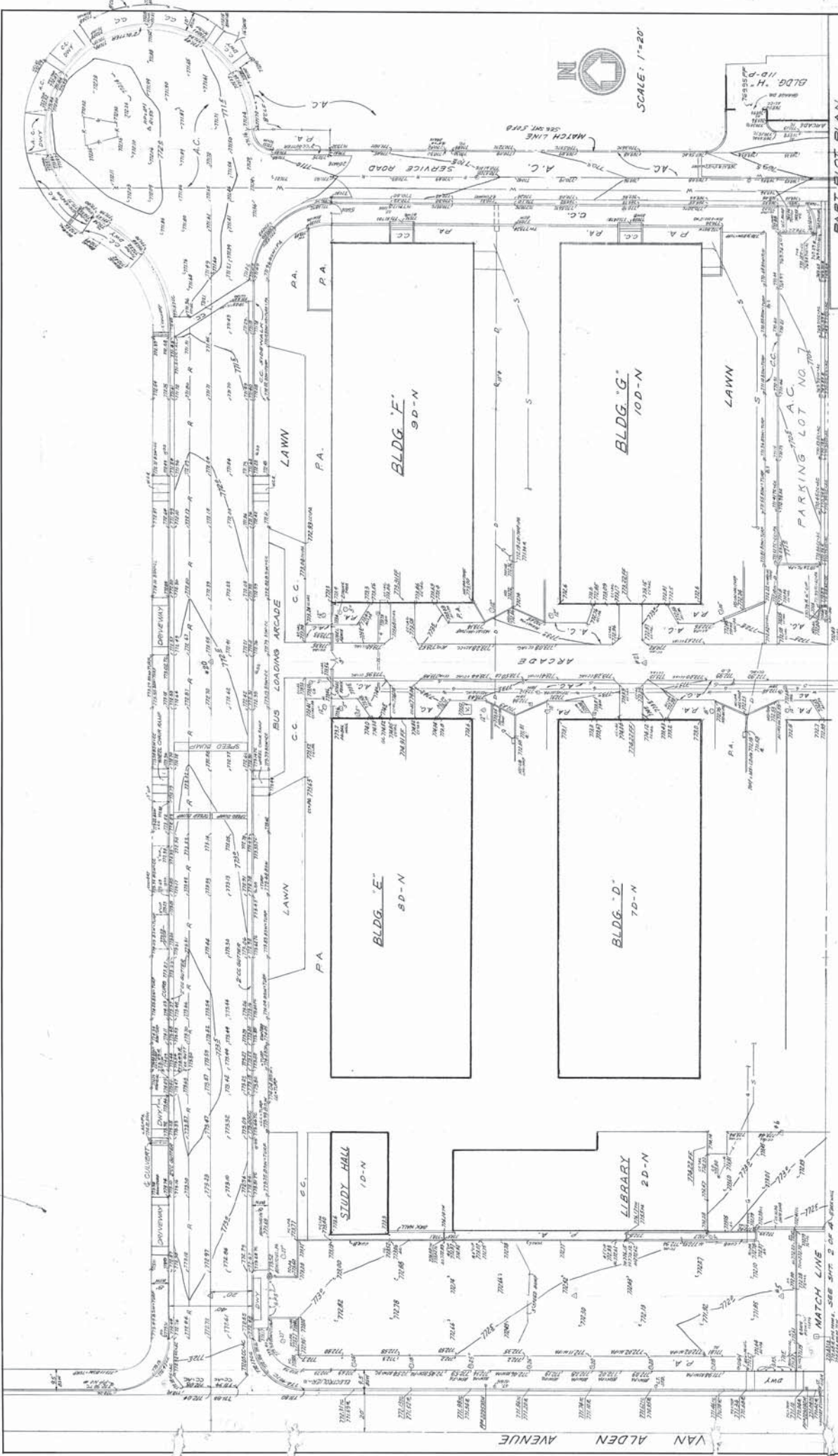


SECTION THRU CURB
MECH. EQUIPT. SUPPORT ON ROOF



EXHAUST FAN
DUCT SPACE

8-5-00-00 010



SCALE: 1"=20'

PART PLOT PLAN

REVISIONS	NO.	DATE	DESCRIPTION
1	1	10/15/50	PREPARED BY
2	2	11/15/50	APPROVED BY
3	3	12/15/50	REVISIONS

PROJECT: CLEVELAND HIGH SCHOOL
 ADDRESS: 1425 SOUTH SAN PEDRO STREET
 CITY: PASADENA, CALIFORNIA

PREPARED BY: [Name]
 ARCHITECT: [Name]
 ENGINEER: [Name]

REVISIONS:

NO.	DATE	DESCRIPTION
1	10/15/50	PREPARED BY
2	11/15/50	APPROVED BY
3	12/15/50	REVISIONS

LEGEND:

- MATCH LINE
- CENTER LINE
- GAS LINE
- WATER LINE
- SEWER LINE
- CONDUIT LINE
- ELECTRICAL CONDUIT
- TOP OF CURB
- TOP OF HILL

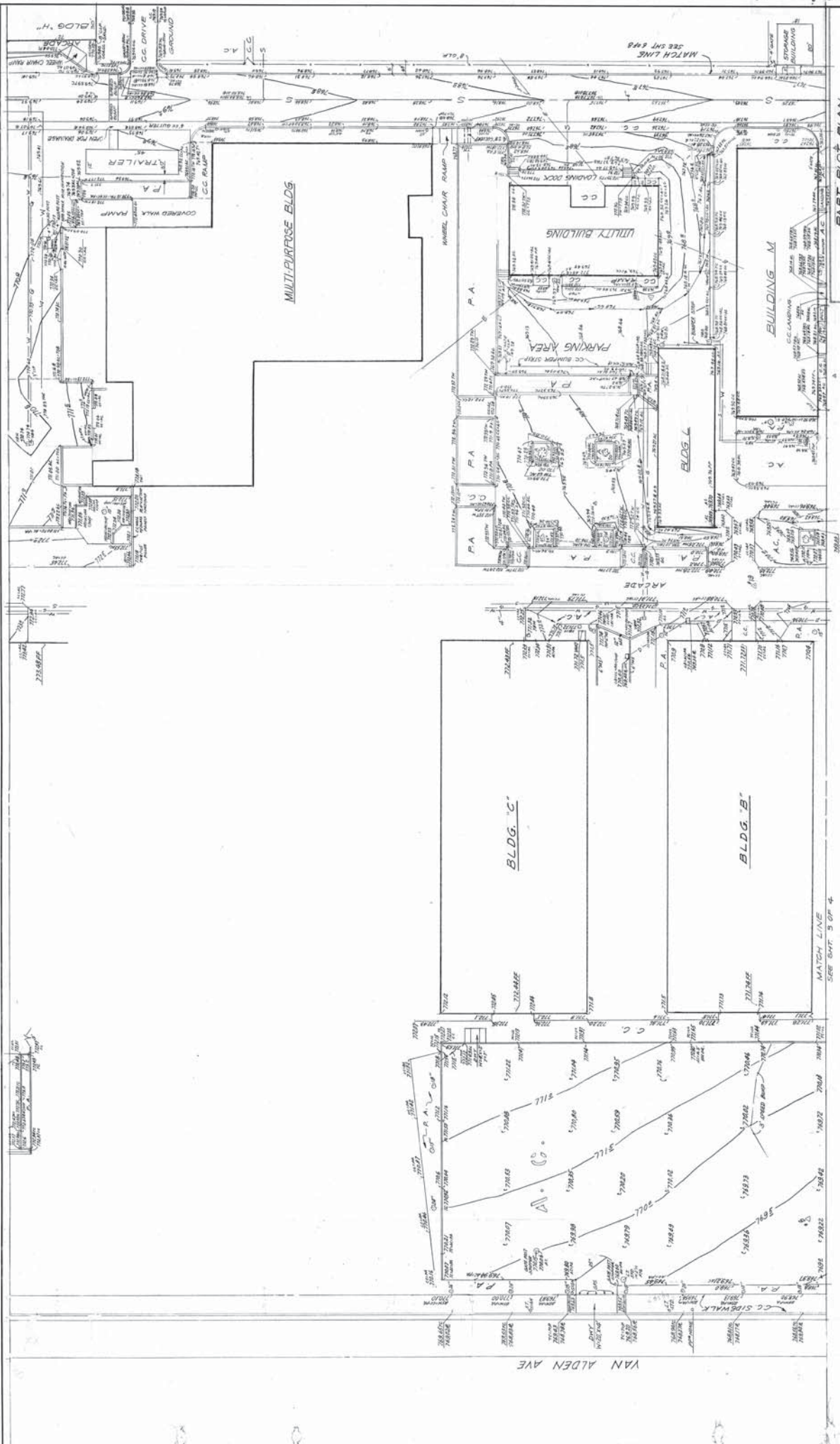
NOTES:

- BACK OF STAIRWELL
- STREET CANYON
- PLANTING AREA
- TRUSS OF GYMNASIUM
- CLEAN OUT
- ON MAIN
- RAVINE ROAD
- CONCRETE

AS SHOWN
 C.P.
 P.A.
 C.C.
 G.C.
 S.P.
 S.D.
 D.W.Y.

SEE SHEET 2 OF 3

8590.00



REVISED

DATE: 11/15/2011

PROJECT: CLEVELAND HIGH SCH.

OWNER: BING VALALDEN AVENUE

LOCATION: RISSIDA, CALIFORNIA

PREPARED BY: [Redacted]

SCALE: 1/8"=20'

8590.00

PART PLOT PLAN

SCALE 1/8"=20'

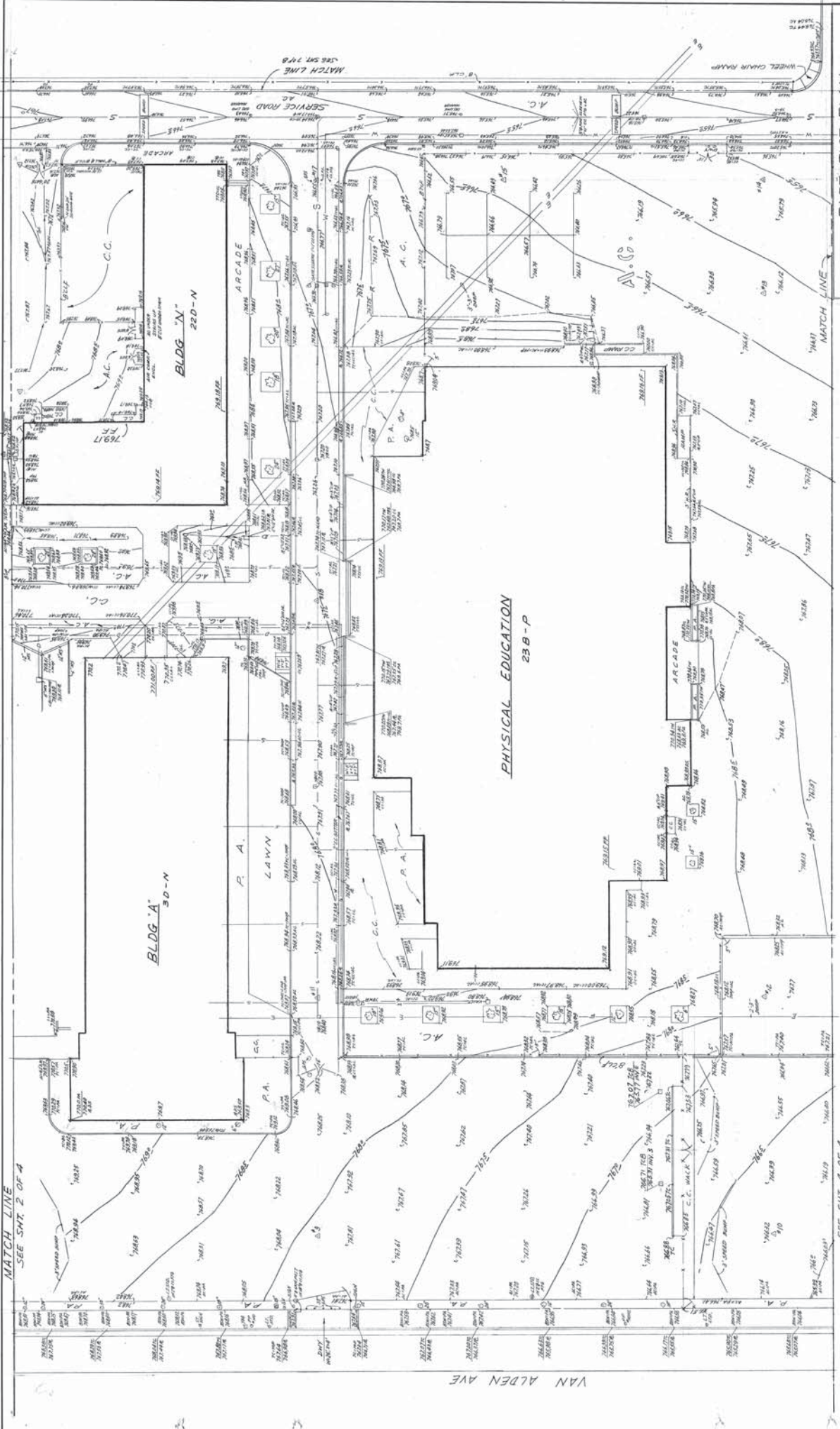
NORTH

SEE SHWT. 5 OF 4

MATCH LINE

SEE SHWT. 4

5007.01



NO. 1	788 ADDITIONAL 7899 - 24	REVISED	PART PLOT PLAN
NO. 2			
NO. 3			
NO. 4			
NO. 5			
NO. 6			
NO. 7			
NO. 8			
NO. 9			
NO. 10			
NO. 11			
NO. 12			
NO. 13			
NO. 14			
NO. 15			
NO. 16			
NO. 17			
NO. 18			
NO. 19			
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NO. 98			
NO. 99			
NO. 100			



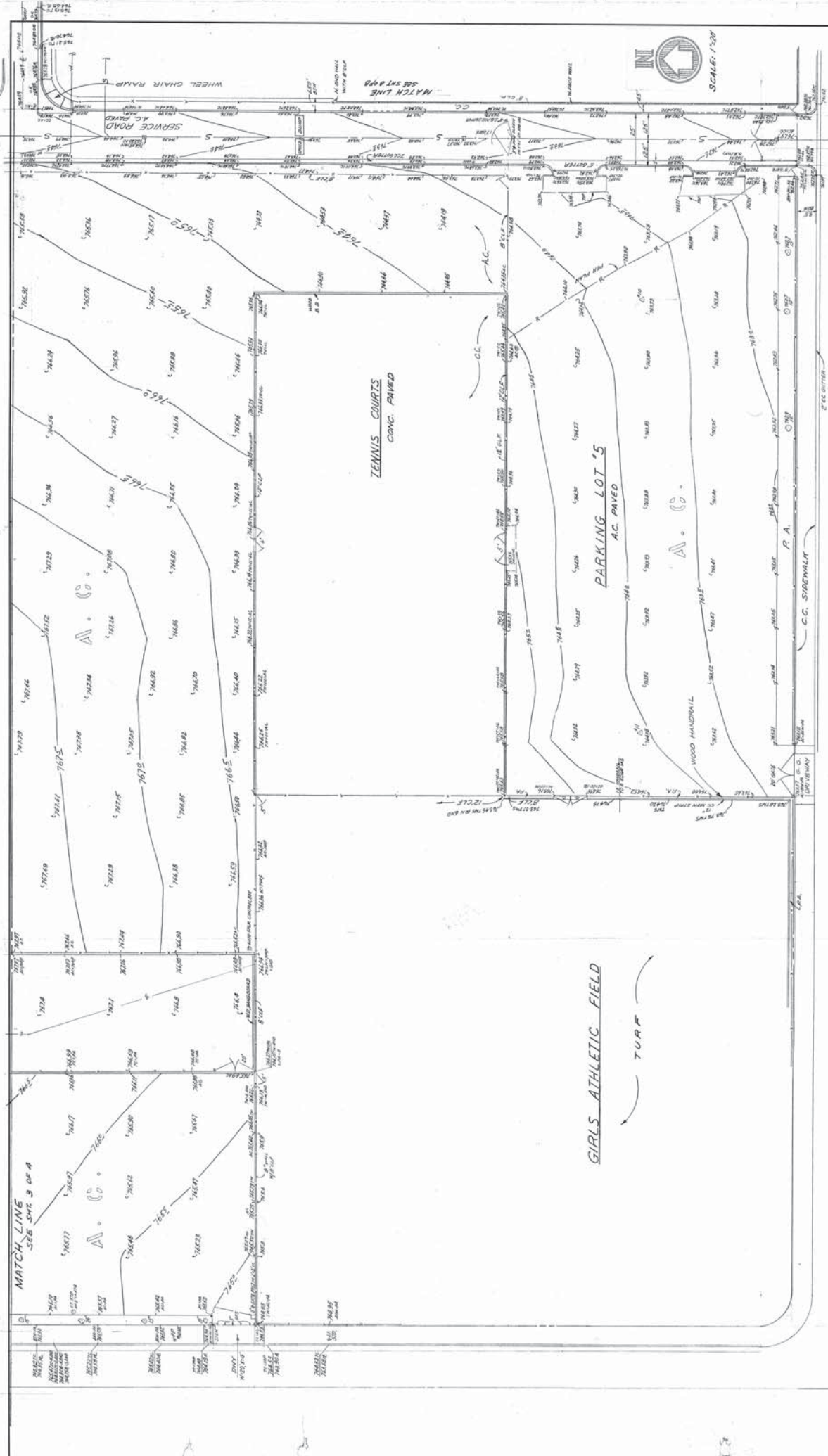
 SCALE: 1" = 20'

PREPARED BY:
 JACOB BROWN PLANNING DIVISION
 1207 SOUTH MAIN STREET
 LOS ANGELES, CALIFORNIA

REVISED
 CLEVELAND HIGH SCH.
 6740 VAN ALDEN BLVD
 PASADENA, CALIFORNIA

8890.00

SEE SHIT 4 OF 4



PART PLOT PLAN

REVISION	DATE
1	6-81
CLEVELAND HIGH SCHOOL	
1740 WARDEN AVENUE	
OAKLAND, CALIFORNIA	

SCHOOL BUILDING PARKING LOT	
NO.	DATE

8500.00

SCALE: 1/4" = 20'



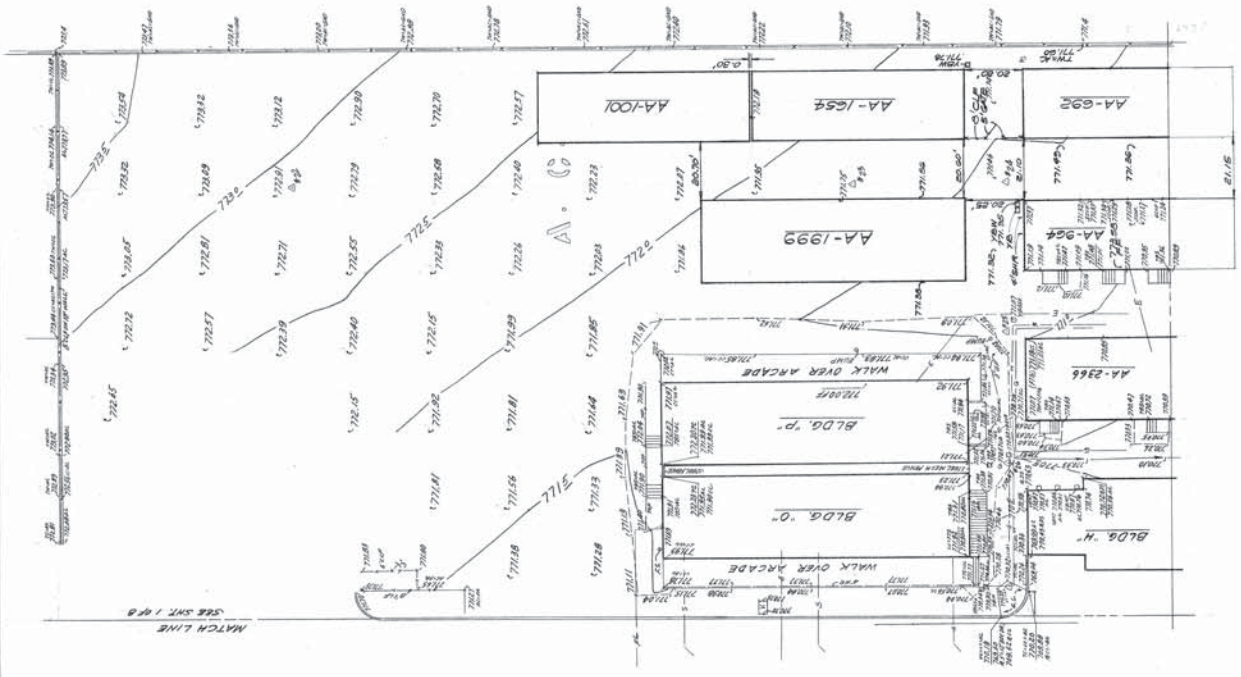
DATE	11-84
DRAWN BY	O. U.
CHECKED BY	
DESIGNED BY	
PROJECT NO.	
CLEVELAND HIGH SCHOOL	
8140 VAN ALDEN AVE	
ROSEDA, CALIFORNIA	

PLOT PLAN

REVISIONS
1. LAYOUT ADDITIONAL BLDG
4/8 & 6/9 BLDG. M-229 4-27-84



DESIGNED BY
SCHOOL FACILITIES SERVICES
FACILITIES DESIGN SECTION
LOS ANGELES, CALIFORNIA
145 SOUTH VAN ALDEN STREET





DATE	11-84
SCALE	0.1"
PROJECT	
DESIGNER	
CHECKED	
APPROVED	

SHEET NO.	6
TOTAL SHEETS	11
DATE	

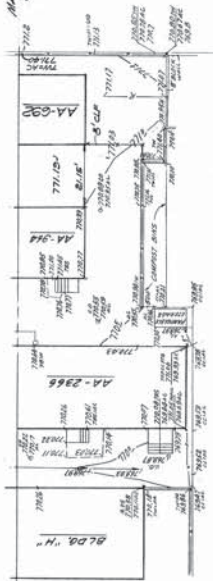
PLOT PLAN



SCALE: 1"=20'

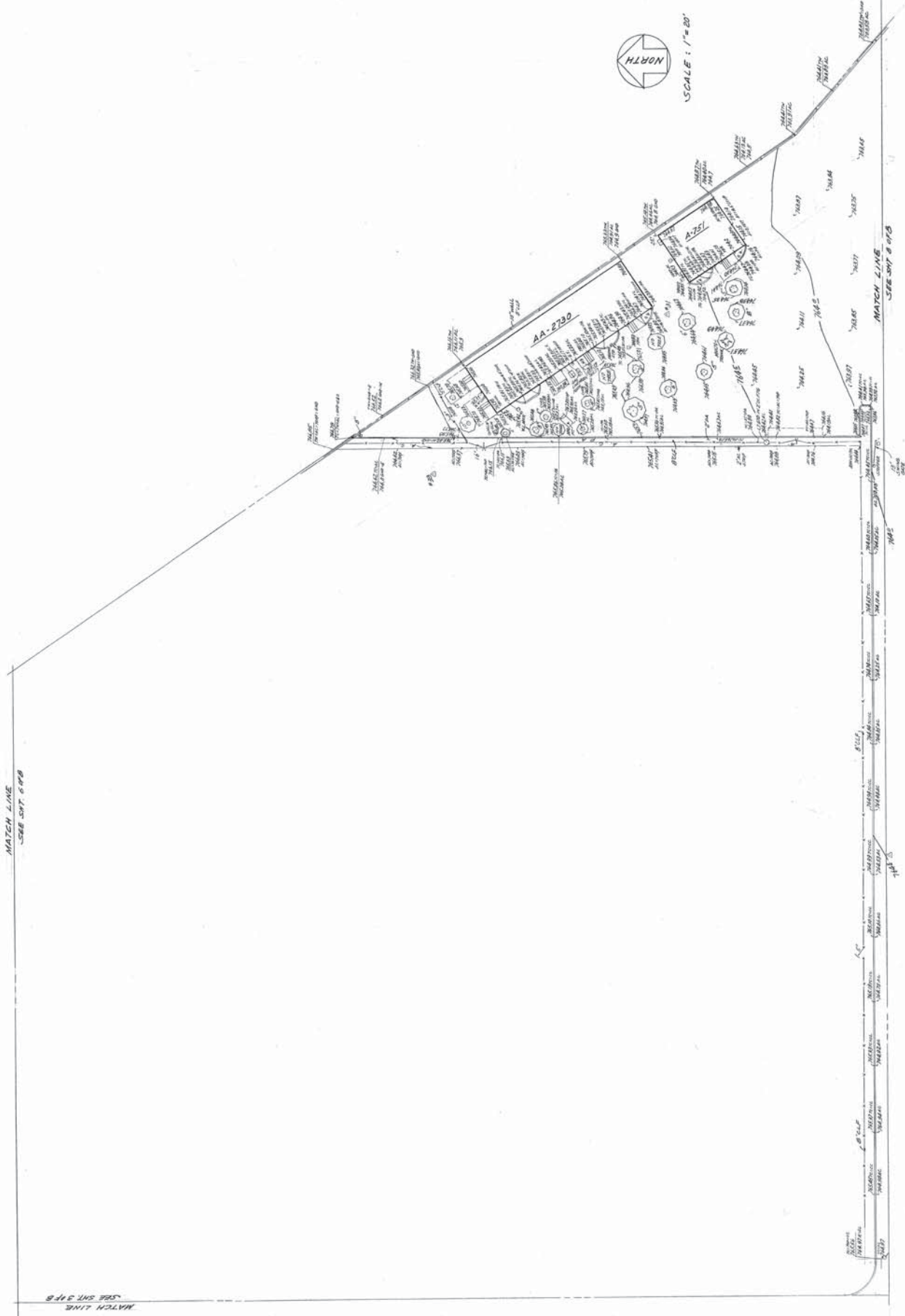
8590.00

MATCH LINE
SEE SHEET 548

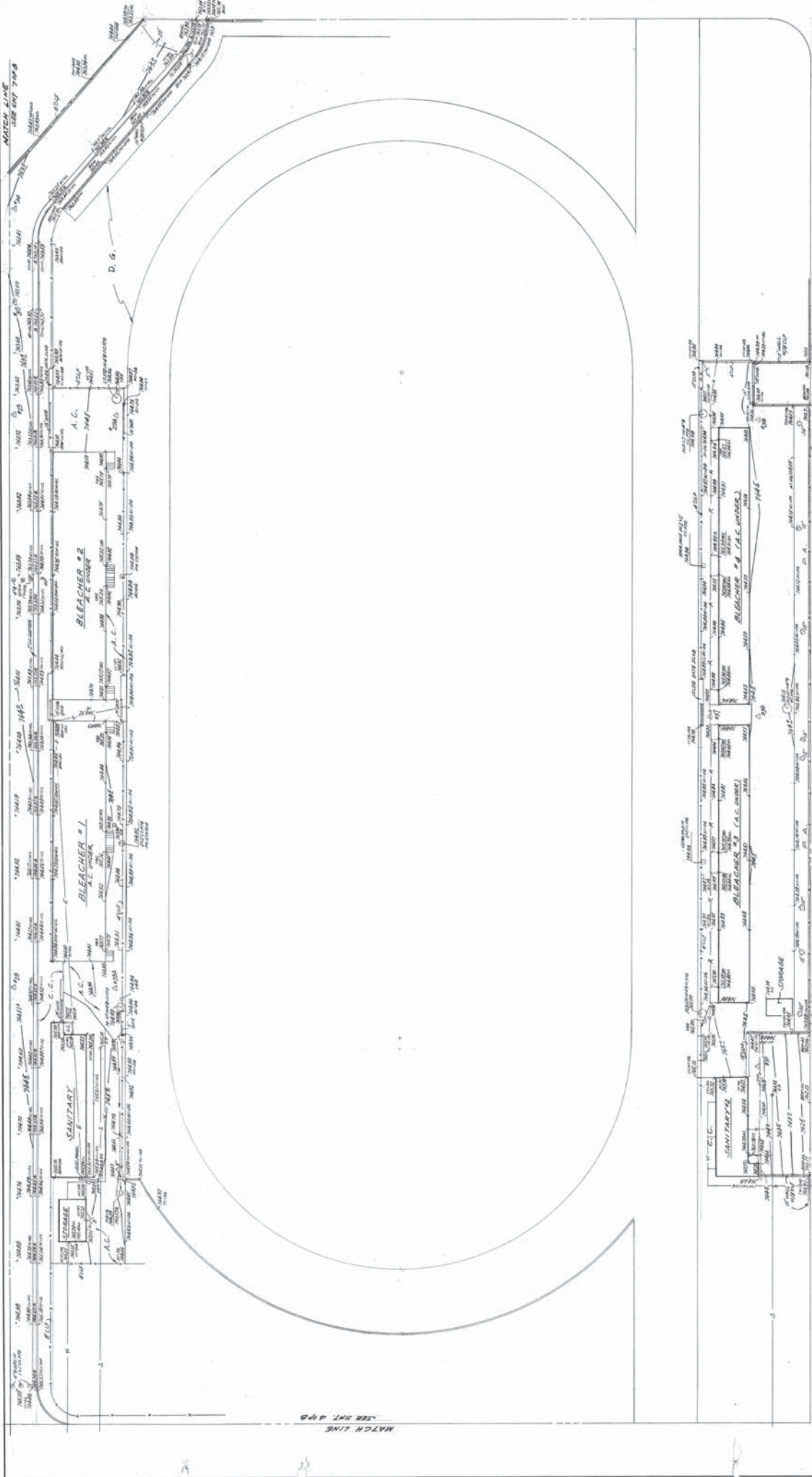


MATCH LINE
SEE SHEET 248

MATCH LINE
SEE SHEET 748



8500 00 - 800000



PART PLOT PLAN
 CLEVELAND HIGH SCH. 1/1-64
 8140 VANALDEN AVE
 REDEDA, CALIFORNIA

PREPARED BY
 BOARD OF EDUCATION
 I. A. HANCOCK SCHOOL DISTRICT
 473 SOUTH 44th STREET
 LOS ANGELES, CALIFORNIA

NO. SYSTEM
 83



SCALE : 1" = 20'

STRATHERN STREET

8590.00 015-5004-01

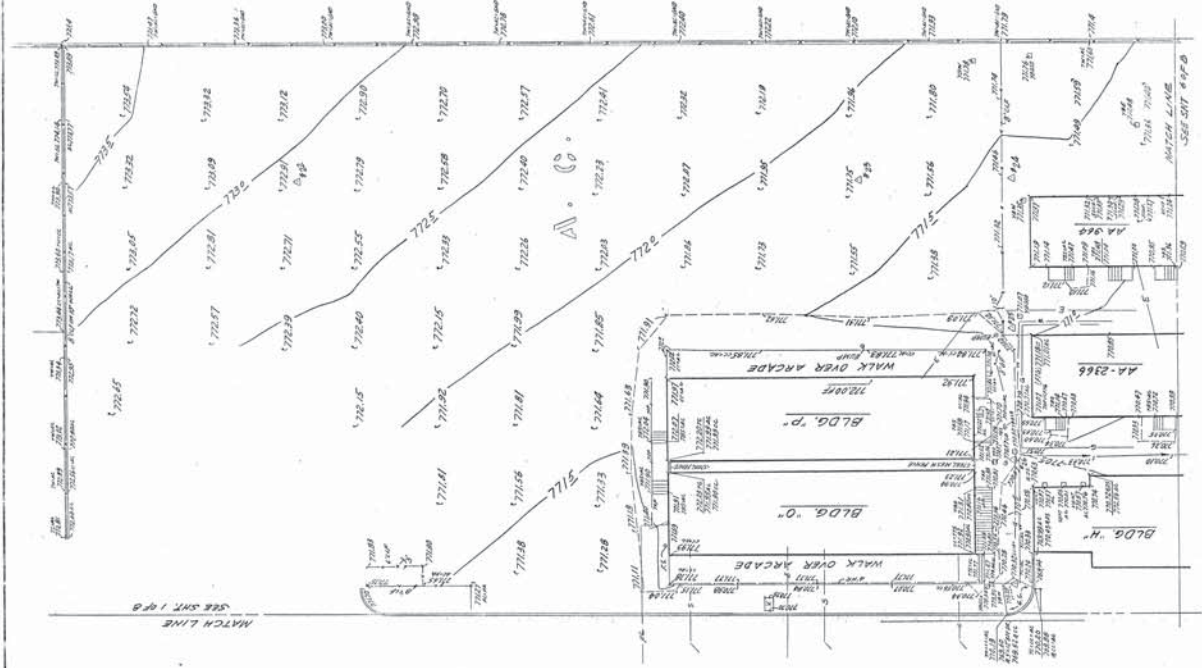


DATE	11-84
SCALE	0.11
PROJECT NO.	
DESIGNER	
CHECKER	
APPROVED	

PLOT PLAN



SCALE: 1"=40'





CLEVELAND HIGH SCHOOL
8140 VAN ALDEN AVE
RESEDA, CALIFORNIA

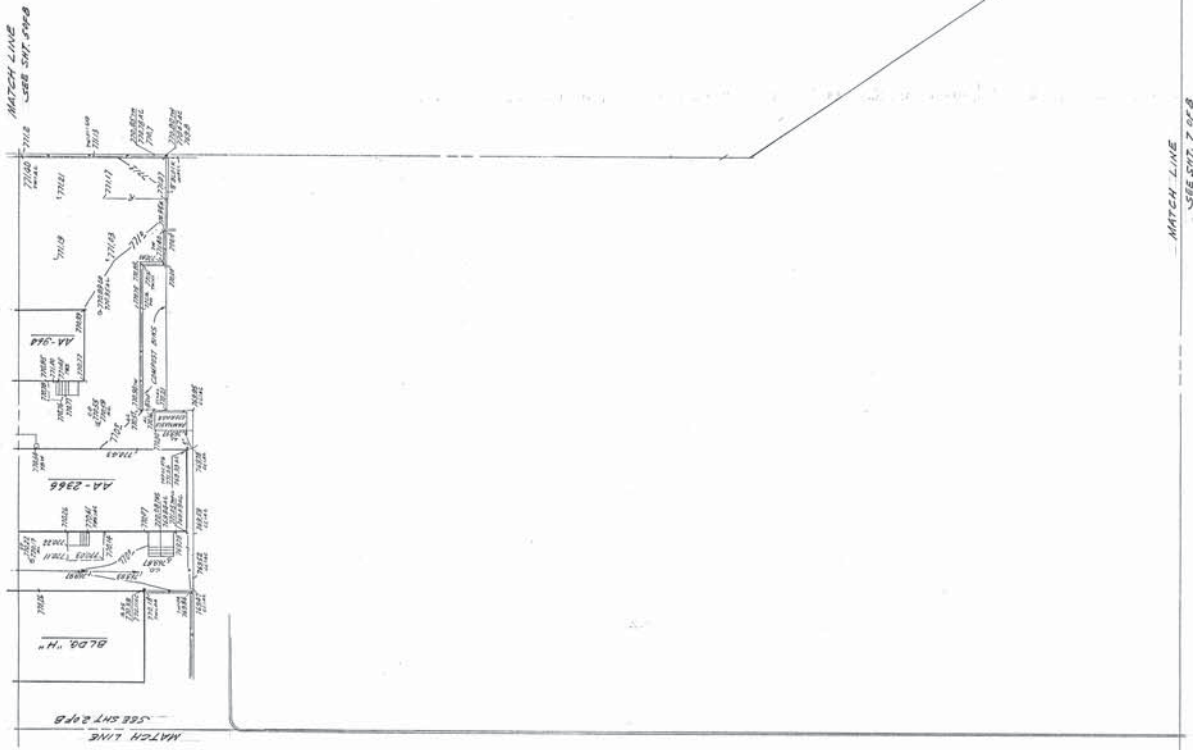
DATE	11-84
PROJECT NO.	O.U.
DESIGNED BY	
CHECKED BY	
APPROVED BY	
DATE	

PLOT PLAN



SCALE: 1"=20'

8590.00.01



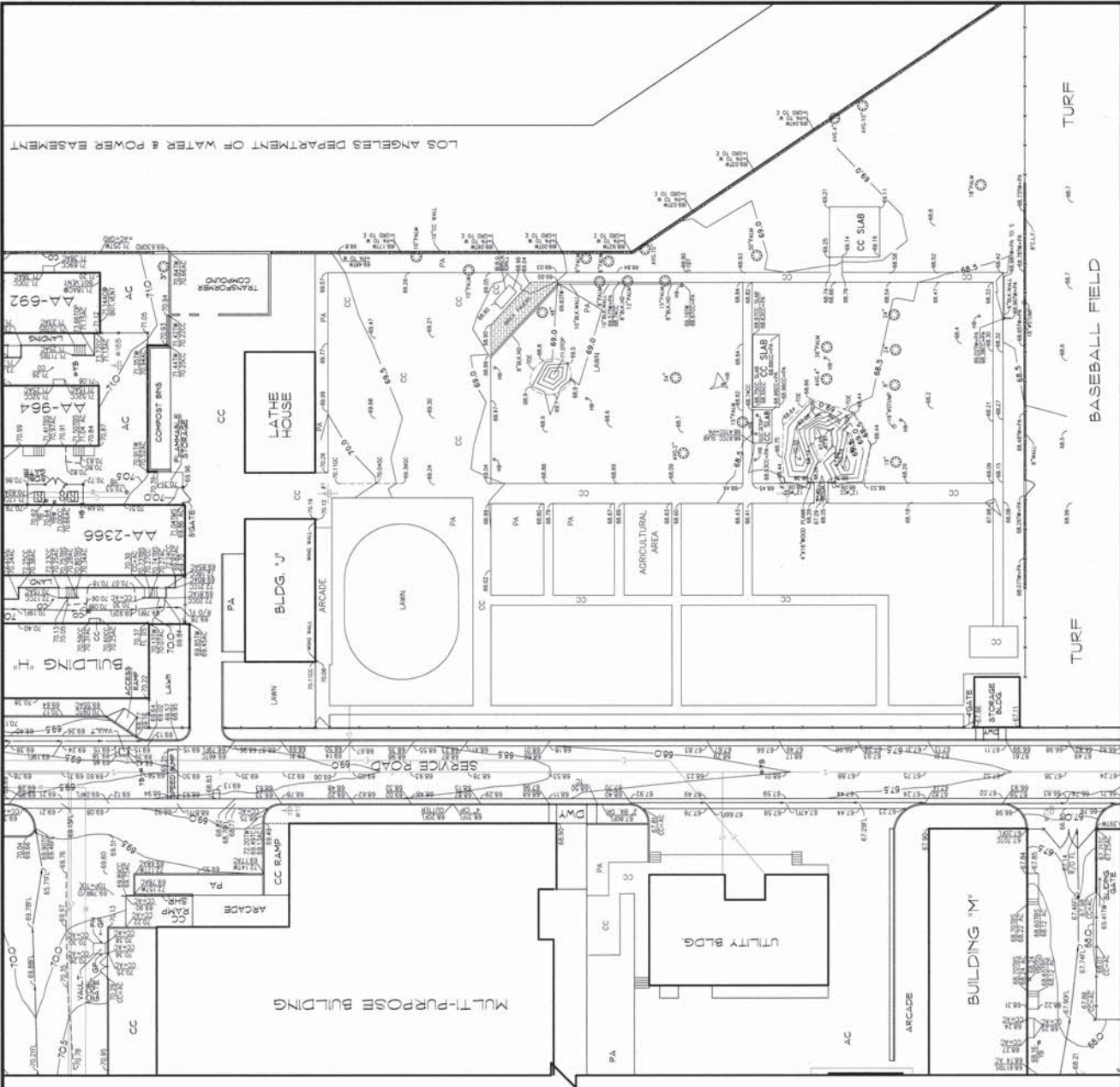
DESIGN & INSPECTION BRANCH
FACILITIES SERVICES DIVISION

CITY OF LOS ANGELES
 DEPARTMENT OF WATER & POWER PLANT

CLEVELAND HIGH SCHOOL
 8140 VANALDEN AVENUE
 RESEDA, CA 91335

PART PLOT PLAN

DRAWING NO. 3/6
 CHECKED BY: [Signature]
 DATE: 03-2000



LEGEND:

PROPERTY LINE	---
CENTER LINE	---
CHAIN LINK FENCE	---
CONTOUR LINE	---
GRADE CHANGE	---
PIPE	---
ELECTRIC LINE	---
GAS LINE	---
SEWER LINE	---
WATER LINE	---
CONCRETE	---
BACK OF SIDEWALK	---
CAST IRON PIPE	---
CEMENT CONCRETE	---
CLEANOUT	---
COMPOUND GRANITE	---
COMPOUND	---
DRINKING FOUNTAIN	---
DRIVEWAY	---
FINISHED FLOOR	---
FOOTING	---
GROUND	---
POST	---
INVERT	---
MOWING STRIP	---
PLANTING AREA	---
TOP OF BOTTOM STEP	---
TOP OF CATCH BASIN	---
TOP OF CURB	---
TOP OF FLOOR	---
TOP OF TOP STEP	---
TOP OF WALL	---
TREE (SIZE NOTED)	---
YARD BOX (SEWER, WATER, GAS, ELECTRICAL)	---

BENCH MARK:
 CHS 1" E SIDE SER. RD.
 O.S. S/O BOX BETWEEN
 AS CR AND DR. ED. INT.
 ELEVATION = 89.42'

NOTE:
 ADD 100 TO ALL ELEVATIONS
 SHOWN TO ARRIVE AT CORRECT
 SCHOOL DATA
 DATE SURVEYED: 04-08-01



 SCALE: 1" = 30'

8590 00 022

GRADING AND PAVING GROUND IMPROVEMENTS

CLEVELAND, GROVER HIGH SCHOOL
 8140 VANALDEN AVENUE
 RESEDA, CALIFORNIA

PROJECT NUMBER: 11A03976



VICINITY MAP

INDEX TO DRAWINGS	
INDEX No.	DRAWING No.
1	T-1
2	C-1



RELOCATABLE HOUSING UNIT
 FACILITIES SERVICES DIVISION
 LOS ANGELES CALIFORNIA
 36 SOUTH GRAND AVENUE
 RESEDA, 91035



U.S.A. STAMP

PROJECT
 TITLE, VICINITY MAP,
 INDEX TO DRAWINGS,
 NORTH ARROW
 CLEVELAND, GROVER HIGH SCHOOL
 8140 VANALDEN AVENUE
 RESEDA, 91035

REVISIONS

NO.	DATE	BY	DESCRIPTION

JOB NUMBER: JZ1
 DRAWN BY: JZ1
 CHECKED BY: JZ1
 DATE: 3-27-02
 INDEX NO.: T-1

8590.00.024

C-222

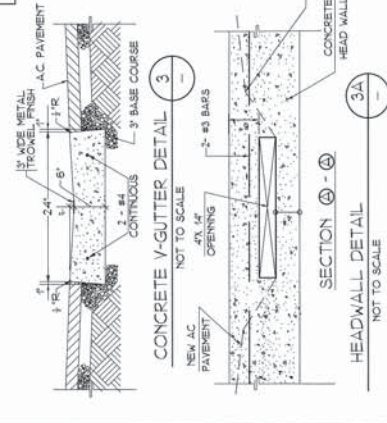
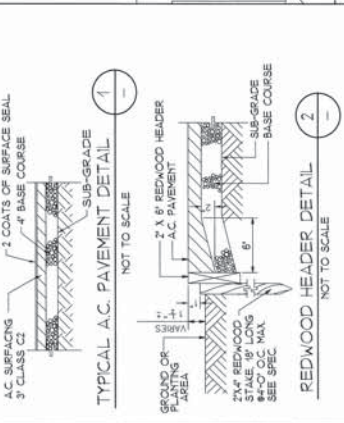
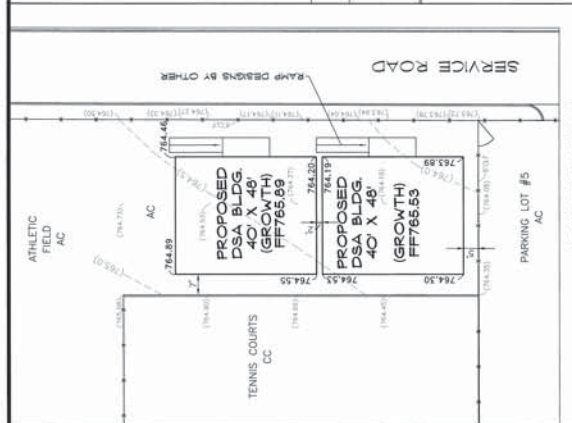
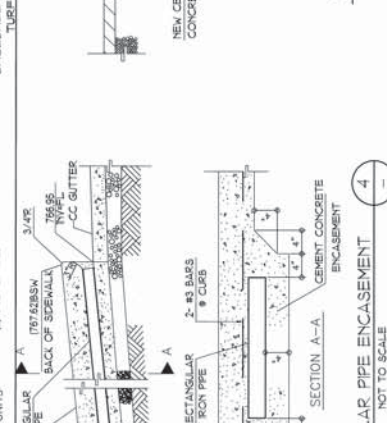
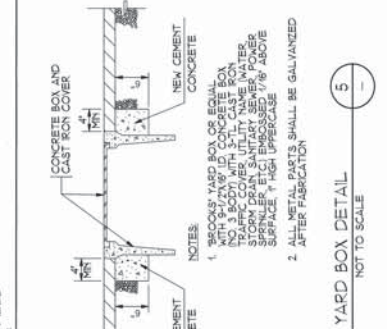
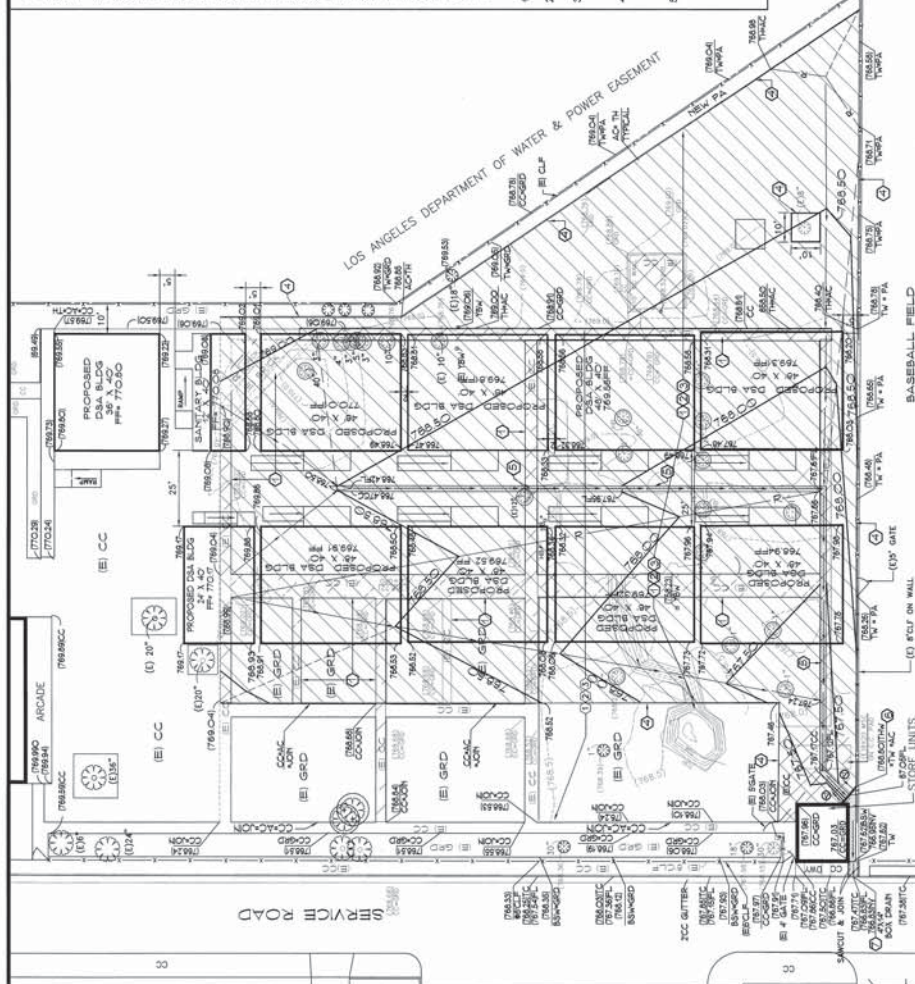


LEGEND

CONSTRUCT 3" AC PAVEMENT - FINISH PER DETAIL (1)	REMOVE EXISTING C.C. PAVEMENT AND 4" X 4" BOX DRAIN PER DETAILS (2)
EXISTING CONTOUR LINE (1/8"=1')	FINISH GRADE CONTOUR (1/8"=1')
EXISTING GRADE ELEVATION (1/8"=1')	PROPOSED GRADE ELEVATION (1/8"=1')
CENTER LINE (1/8"=1')	EDGE (1/8"=1')
FLON LINE (1/8"=1')	FLON CHANGE (1/8"=1')
CHAIN LINE (1/8"=1')	CHAIN LINE (1/8"=1')
ASPHALT CONCRETE (1/8"=1')	AC (1/8"=1')
GROUND (1/8"=1')	GRD (1/8"=1')
TOP OF WALL (1/8"=1')	TM (1/8"=1')
TOP OF CURB (1/8"=1')	TC (1/8"=1')
METAL STORAGE CONTAINER (1/8"=1')	MSC (1/8"=1')
TURF (1/8"=1')	TF (1/8"=1')
HOSE BIB (1/8"=1')	HB (1/8"=1')
TREE TO BE REMOVED (SIZE NOTED) (1/8"=1')	TR (1/8"=1')

- GENERAL NOTES**
- PERFORM WORK IN THIS CONTRACT TO CONFORM TO PROJECT SPECIFICATIONS.
 - UNLESS OTHERWISE STATED, REFORM ALL WORK SPECIFIED ON THE DRAWINGS AND WHEN THE VARIOUS NOTES SHOW HEREON.
 - GRADES BETWEEN LOCATED ELEVATIONS UNLESS INTERFERED BY A GRADE CHANGE LINE ANY DEVIATIONS FROM THE GRADING PLAN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - REMOVE AND REGRADE ALL CONCRETE YARD BONES WITHIN CONSTRUCTION LIMITS AND NUMBER OF YARD BONES TO BE REMOVED BY THE CONTRACTOR IN THE FIELD PRIOR TO BEGINNING WORK.
 - ALL WALLS ARE ASSUMED TO CONTAIN LUGS AND ANCHORS. THE DISTURBANCE OF THESE MATERIALS IS NOT ANTICIPATED DURING THIS PROJECT. IF ANY DISTURBANCE IS NOTICED, THE CONTRACTOR SHALL NOTIFY THE DISTRICTS ASSISTANT SUPERVISOR IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS RESULTING FROM THE DISTURBANCE OF THESE MATERIALS.

- CONSTRUCTION NOTES**
- REMOVE ALL OBSTRUCTIONS INCLUDING STAMPS, TREES, CONCRETE YARD BONES, WALLS, CURBS, AND EXISTING PAVEMENT AND C.C. V-GUTTER CONSTRUCTION PER DETAIL (1).
 - REMOVE EXISTING GRASS AND TOP FERT. SCARIFY TOP 2" OF SOIL MIXTURE. REGRADE TO SPECIFIC RELATIVE ELEVATION OF BOX DRAIN PER DETAIL (2).
 - CONSTRUCT V-GUTTER SYSTEM WITH 12" METAL TRONEL FINISH WATER LINES BEHIND GRADE. RECONNECT AS NECESSARY TO EXISTING SYSTEM. OPENING SHALL BE 2" ABOVE THE EDGES OF NEW A.C. PAVEMENT WHERE IT ADJACENTS TO EXISTING PAVEMENT. SEE DETAIL (3).
 - CONSTRUCT 24" WIDTH CEMENT CONCRETE GUTTER PER DETAIL (4).
 - CONSTRUCT CONCRETE HEADWALL PER DETAIL (3A).
 - REMOVE PORTION OF EXISTING C.C. SIDEWALK. 4" X 4" BOX DRAIN PER DETAIL (2).



Cleveland Charter High School

8140 Vanalden Avenue

Reseda, CA 91335

Inquiry Number: 4648814.3

June 15, 2016

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

06/15/16

Site Name:

Cleveland Charter High School
8140 Vanalden Avenue
Reseda, CA 91335
EDR Inquiry # 4648814.3

Client Name:

Ninyo & Moore
475 Goddard
Irvine, CA 92618
Contact: Patrick Cullip



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Certified Sanborn Results:

Certification # 27F4-4602-8090
PO # 208571012
Project Cleveland Charter High School

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: 27F4-4602-8090

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- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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Cleveland Charter High School

8140 Vanalden Avenue
Reseda, CA 91335

Inquiry Number: 4648814.5
June 15, 2016

The EDR-City Directory Abstract



Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 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.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2013	Cole Information Services	X	X	X	-
2008	Cole Information Services	X	X	X	-
2006	Haines Company	-	-	-	-
2004	Haines Company	X	X	X	-
2003	Haines & Company	-	-	-	-
2001	Haines Company, Inc.	-	-	-	-
2000	Haines	-	-	-	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	X	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	X	X	X	-
1990	PACIFIC BELL WHITE PAGES	-	-	-	-
1986	Pacific Bell	-	-	-	-
1985	Pacific Bell	X	X	X	-
1981	Pacific Telephone	-	-	-	-
1980	Pacific Telephone	-	X	X	-
1976	R.L. Polk & Co Publishers	-	-	-	-
1975	Pacific Telephone	-	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	R. L. Polk & Co.	-	-	-	-
1970	Pacific Telephone	-	X	X	-
1969	Pacific Telephone	-	-	-	-
1967	R. L. Polk & Co.	-	-	-	-
1966	Pacific Telephone	-	-	-	-

EXECUTIVE SUMMARY

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
1965	Pacific Telephone	X	X	X	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	X	X	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1958	Pacific Telephone	-	-	-	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	-	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	-	-	-	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Associated Telephone Company, Ltd.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
18904 Roscoe Blvd	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

8140 Vanalden Avenue
Reseda, CA 91335

FINDINGS DETAIL

Target Property research detail.

VANALDEN AVE

8140 VANALDEN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	CLEVELAND HIGH SCHOOL	Cole Information Services
	STUDENT BODY	Cole Information Services
2008	CLEVELAND CHILD EDUCATIONAL AIDES	Cole Information Services
	GROVER CLEVELAND HIGH SCHOOL	Cole Information Services
	STUDENT BODY	Cole Information Services
2004	CLEVELAND CHILD	Haines Company
	CLEVELAND HIGH	Haines Company
	EDUCATNL AIDES	Haines Company
	SCHOOL	Haines Company
1995	Cleveland Child Educational Aides	Pacific Bell
1991	Cleveland Child Educational Aides	Pacific Bell
	Cleveland Daniel	Pacific Bell
	Cleveland Darna	Pacific Bell
	Cleveland David Sun	Pacific Bell
1985	Cleveland Child Educational Aides	Pacific Bell
	Cleveland High School	Pacific Bell
1965	CLEVELAN8 HIGH SCHOOL	Pacific Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

CANTARA ST

19101 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	KIZER Lanrry	Haines Company
	QUINTERO Arturo	Haines Company
1991	Nichols Ron	Pacific Bell
	Nichols Marion R	Pacific Bell
1985	Nichols Ron	Pacific Bell
	Nichols Marion R	Pacific Bell
1980	NICHOLS RON	Pacific Telephone
	NICHOLS MARION R	Pacific Telephone
1975	Kyle Rennie B	Pacific Telephone
1970	COWGILL JOHN H	Pacific Telephone
	COWGILL JOHN H	Pacific Telephone
1965	RUBONO FRANK	Pacific Telephone
1962	DOCKERY SAML P	Pacific Telephone
1956	DOCKREY SAML P	Pacific Telephone

19106 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	RESEDA AUTO BODY & PAINT	Cole Information Services
	STATE AUTO BODY & PAINT SUPPLIES	Cole Information Services
2004	0 REED Gregory	Haines Company
1962	BUSKE PAUL A	Pacific Telephone
1956	FOTHERINGHAM JACK	Pacific Telephone

19114 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	ATWOOD Beatrice	Haines Company
1962	GOLDSTEIN SIDNEY R	Pacific Telephone
1956	GOLDSTEIN SIDINEY R	Pacific Telephone

19119 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	OTRETO Manuel	Haines Company

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	AGUILERA Marlin C	Haines Company
1991	Pinder Gail	Pacific Bell
	Pinder Clive GHIS	Pacific Bell
	Pindar Edw W	Pacific Bell
	Pincus Yvonne	Pacific Bell
	Pincus Starr	Pacific Bell
1985	Pindar Edw W	Pacific Bell
	Pincus Yvonne	Pacific Bell
	Pincus Starr	Pacific Bell
1980	PINCUS JONATHAN S	Pacific Telephone
1975	Pincus Jonathan S	Pacific Telephone
1970	NAKAGAWA TADAYEOSHI	Pacific Telephone
	NAKAGAWA TADAYEOSHI	Pacific Telephone
1965	ALFIERI PETER	Pacific Telephone
1962	ALFIERI PETER J	Pacific Telephone

19120 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	NAJARRO Miriam	Haines Company
	VALLE Primitivo	Haines Company
1975	Steele L C	Pacific Telephone
1970	STEELE LEO C MRS	Pacific Telephone
	STEELE LEO C MRS	Pacific Telephone
1965	STEELE LEO	Pacific Telephone
1962	STEELE LEO C MRS	Pacific Telephone
1956	STAFFORD WM J	Pacific Telephone

19126 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	JGP INC	Cole Information Services
1995	Young Stan & Mary	Pacific Bell
1991	Young Stan & Mary	Pacific Bell
1980	WETZEL CLIFFORD O	Pacific Telephone
1975	Wetzel Clifford O	Pacific Telephone
1970	WETZEL CLIFFORD O	Pacific Telephone
	WETZEL CLIFFORD O	Pacific Telephone
1965	ETZEL C	Pacific Telephone
1962	WETZEL CLIFFORD O	Pacific Telephone
1956	WETZEL CLIFFORD O	Pacific Telephone

FINDINGS

19127 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	Saunders Mary Jane	Pacific Bell
1991	Saunders Mary Jane	Pacific Bell
	Saunders Milton E	Pacific Bell
1985	Perry Antoinett L	Pacific Bell
	Perry Bl	Pacific Bell
	Saunders Mary Mrs	Pacific Bell
1980	PERRY ANTOINETT L	Pacific Telephone
	SAUNDERS MARY MRS	Pacific Telephone
1975	Perry Antoinett L	Pacific Telephone
	Saunders Mary Mrs	Pacific Telephone
1970	PERRY ANTOINETT L	Pacific Telephone
	SAUNDERS MARY MRS	Pacific Telephone
	SAUNDERS MARY MRS	Pacific Telephone
	PERRY ANTOINETT L	Pacific Telephone
1962	JOHNS KENNETH L	Pacific Telephone
1956	JOHNS KENNETH L	Pacific Telephone

19128 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	GARZAJimmy	Haines Company

19130 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	DARNELLJohn	Haines Company
1962	FINKBEINER RUTH	Pacific Telephone
1956	GOODELL PHILIP B	Pacific Telephone

19135 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	00 SORIOJose	Haines Company
1970	LARSON C ED	Pacific Telephone
	LARSON C ED	Pacific Telephone
	LARSON C ED POOLS	Pacific Telephone
	LARSON C ED POOLS	Pacific Telephone
	LARSON C ED	Pacific Telephone
	LARSON C ED	Pacific Telephone
1965	MORRIS H	Pacific Telephone
1962	MORRIS HOWARD A	Pacific Telephone

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1956	MORRIS HOWARD A	Pacific Telephone

19138 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	ASPEN MANAGEMENT GROUP INC	Cole Information Services
2004	PLUMMER Brian	Haines Company
	ASPEN MANAGEMENT	Haines Company
1985	Arnold Wm	Pacific Bell
1975	Wambold Wm W	Pacific Telephone
1956	BOOKSTON ALEX	Pacific Telephone

19143 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	GARZA Jimmy	Haines Company
1995	Cina Richard Plastering	Pacific Bell
1991	Cina Richard Plastering	Pacific Bell
1985	Cina Richard Plastering	Pacific Bell
1980	CINA RICHARD PLASTERING	Pacific Telephone
	KOGER S	Pacific Telephone
1970	HOLLAND ELLEN L	Pacific Telephone
	HOLLAND ELLEN L	Pacific Telephone
1965	GATES ELLEN	Pacific Telephone
1962	GATES ELLEN L	Pacific Telephone
1956	BRIER JAS D	Pacific Telephone

19144 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	6 DAVEYFL	Haines Company
	TUTAS Frank PSr	Haines Company
1995	Tutas Frank P Sr	Pacific Bell
1991	Davey FL	Pacific Bell
1985	Davey F L	Pacific Bell
1980	DAVEY F L	Pacific Telephone
1975	Davey F L	Pacific Telephone
1970	DAVEY F L	Pacific Telephone
	DAVEY F L	Pacific Telephone
1965	DOAVEY R	Pacific Telephone
1962	DAVEY ROBT A	Pacific Telephone
1956	DAVEY ROBT A	Pacific Telephone

FINDINGS

19151 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	TRUJILLOJack	Haines Company
1956	WHALE FRANK P	Pacific Telephone

19152 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	BARROW Charles	Haines Company
1965	SHAPIRO ELIZABETH	Pacific Telephone
1962	SHAPIRO ELIZABETH	Pacific Telephone
1956	TRAXLER RICHARD F	Pacific Telephone

19157 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	&GROSS Christian	Haines Company
1980	TCABAR MENASHE	Pacific Telephone
	TCABAR MENASHE	Pacific Telephone
1975	Fligiel Wm R	Pacific Telephone
1970	HALL FOSTER	Pacific Telephone
	HALL FOSTER	Pacific Telephone
1965	DE BIASE JAMES	Pacific Telephone
1962	DE BIASE JAS	Pacific Telephone
1956	DE BIASE JAS	Pacific Telephone

19160 CANTARA ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	SAROGHLANIAN M	Haines Company
	OTUMBERIAN Ann	Haines Company
1980	WOODHULL CRAIG	Pacific Telephone
1975	Rollo Robt F	Pacific Telephone
1970	POCHMARA RICHARD	Pacific Telephone
	POCHMARA RICHARD	Pacific Telephone
1965	DENIC LNDSCPE CESGN	Pacific Telephone
1962	ARCHIBALD ROGER K	Pacific Telephone
1956	MAC DONALD MATTHEW L	Pacific Telephone

LANARK ST

19100 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	SDELATORREIsmael	Haines Company

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1995	Do Hieu Cong	Pacific Bell
	Hoang Thuy Thu	Pacific Bell
	Nguyen Thanh Van Thi	Pacific Bell
1991	Chau CG	Pacific Bell
	Chau Choeu Kong	Pacific Bell
	Chau Bau Xuan	Pacific Bell
1975	Whitley Ralph D	Pacific Telephone
1965	WHITLEY RALPH	Pacific Telephone

19101 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	VAZQUEZ Dolores	Haines Company
1995	Hendrickson Chas P	Pacific Bell

19108 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	SARIDMoshe	Haines Company
1975	Michael Joe E	Pacific Telephone
1965	MICHAEL JOE	Pacific Telephone

19109 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	TIDWELLJohn	Haines Company
1975	Moniak Barry	Pacific Telephone
1965	NMURRAY RLESS	Pacific Telephone

19116 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	REDLINDwayne	Haines Company
1991	Redline Concrete	Pacific Bell
	Redlin Wm A	Pacific Bell
1985	Redlin Wm A	Pacific Bell
1975	Redlin Wm A	Pacific Telephone
1965	REDLIH WILLIAM	Pacific Telephone

19117 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	CHONGWOO GARDENING & LANDSCAPING	Cole Information Services
2004	GAFDENINGALANDSC	Haines Company

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	CHONGWOO	Haines Company
	LEE Young	Haines Company
1975	Cookson A L	Pacific Telephone
1965	CORXSON AMOS	Pacific Telephone

19122 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	BES	Pacific Telephone

19123 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	HOULTON Christine	Haines Company
	HOULTONJohn	Haines Company
1991	Houlton John O & Christine	Pacific Bell
1975	Houlton John O	Pacific Telephone
1965	MILLER CHAS	Pacific Telephone

19130 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	AMERICAN CARPET CLEANING	Cole Information Services
2004	AMER CARPET	Haines Company
	OMENANTEAU Rudy	Haines Company
	PIZARRO Paola	Haines Company
	CLEANING	Haines Company
1991	Vaiarelli Vincent M Jr	Pacific Bell
	Vaianat Root	Pacific Bell
1985	Valana Robt	Pacific Bell
1975	Vaiana Robt	Pacific Telephone
1965	ILANA R1BERT	Pacific Telephone

19131 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	HARRIS Roobt M	Haines Company
1995	Harris David A	Pacific Bell
	Harris Robt M	Pacific Bell
1991	Harris David A	Pacific Bell
	Harris Robt M	Pacific Bell
1985	Harris Robt M	Pacific Bell
1975	Harris Robt M	Pacific Telephone

FINDINGS

19138 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1991	Senftner William	Pacific Bell
	Senft Robtl	Pacific Bell
1985	Sengbusch D L	Pacific Bell
	Senft Robt I	Pacific Bell
1975	Senft Robt I	Pacific Telephone
1965	SENFT S ISTERT	Pacific Telephone

19139 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	&MATSUMOTOMiwako	Haines Company
1975	Messing Maryann	Pacific Telephone
	Messing Alan W	Pacific Telephone

19144 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	SHORT Peter	Haines Company
	KURTGary	Haines Company
	KORNFEIN Gary	Haines Company
	RESOURCES	Haines Company
	AMER FINANCIAL	Haines Company
1975	Berghash Chas	Pacific Telephone
1965	LYTP S SW	Pacific Telephone

19145 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	GSISS JACK	Pacific Telephone

19152 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	SHORT Peter	Haines Company
	SBESTJennifer	Haines Company
1985	Ebsen K	Pacific Bell
	Ebsen IS	Pacific Bell
	Ebsen Dustin	Pacific Bell
	Ebsen Christopher F	Pacific Bell

19153 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2013	BIOMEDIATION SOCIETY	Cole Information Services

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	BIO MEDITATION SOCIETY	Cole Information Services

19160 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	SHORTChristopher	Haines Company

19161 LANARK ST

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	HENDRICKSONCharles	Haines Company
1991	Hendrickson Chas P	Pacific Bell
1985	Hendrickson Chas P	Pacific Bell
1975	Hendrickson Chas P	Pacific Telephone
1965	NGIBR1CRISO C	Pacific Telephone

Roscoe Blvd

18904 Roscoe Blvd

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	BAJACABAD S	Haines Company
	MEXICAN RSTRNT	Haines Company
1980	THRIFTY OIL NO 69	Pacific Telephone
1970	AMERICAN OIL CO SERVICE STATIONS NORTHRIDGE	Pacific Telephone
	AMERICAN OIL CO SERVICE STATIONS NORTHRIDGE	Pacific Telephone

VANALDEN AVE

8120 VANALDEN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	no info	Haines Company

8155 VANALDEN AVE

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1965	SCHAMBER C L	Pacific Telephone

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched

8140 Vanalden Avenue

Address Not Identified in Research Source

2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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

18904 Roscoe Blvd

Address Not Identified in Research Source

2013, 2008, 2006, 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, 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

19100 LANARK ST

2013, 2008, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

19101 CANTARA ST

2013, 2008, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 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

19101 LANARK ST

2013, 2008, 2006, 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

19106 CANTARA ST

2013, 2008, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 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

19106 CANTARA 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

19108 LANARK ST

2013, 2008, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched

19161 LANARK ST

8120 VANALDEN AVE

8155 VANALDEN AVE

Address Not Identified in Research Source

2013, 2008, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

2013, 2008, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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, 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



Cleveland Charter High School

8140 Vanalden Avenue

Reseda, CA 91335

Inquiry Number: 4648814.4

June 15, 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

06/15/16

Site Name:

Cleveland Charter High School
8140 Vanalden Avenue
Reseda, CA 91335
EDR Inquiry # 4648814.4

Client Name:

Ninyo & Moore
475 Goddard
Irvine, CA 92618
Contact: Patrick Cullip



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Ninyo & Moore 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. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

Coordinates:

P.O.#	208571012	Latitude:	34.217816 34° 13' 4" North
Project:	Cleveland Charter High School	Longitude:	-118.547447 -118° 32' 51" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	357455.98
		UTM Y Meters:	3787390.03
		Elevation:	770.00' above sea level

Maps Provided:

2012	1903
1967	
1952	
1944	
1941	
1932	
1929	
1928	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

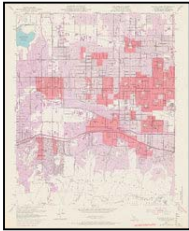
2012 Source Sheets



Canoga Park

7.5-minute, 24000

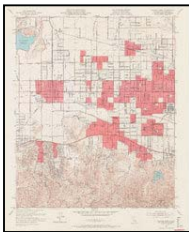
1967 Source Sheets



Canoga Park

7.5-minute, 24000
Photo Revised 1967
Aerial Photo Revised 1967

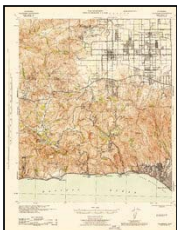
1952 Source Sheets



Canoga Park

7.5-minute, 24000
Aerial Photo Revised 1947

1944 Source Sheets



Calabasas

15-minute, 62500
Aerial Photo Revised 1938

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1941 Source Sheets



Zelzah

7.5-minute, 24000

1932 Source Sheets



Zelzah

7.5-minute, 24000

1929 Source Sheets



Zelzah

7.5-minute, 24000

1928 Source Sheets



Zelzah

7.5-minute, 24000



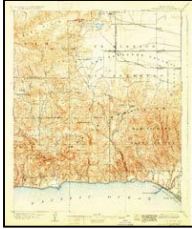
Reseda

7.5-minute, 24000

Topo Sheet Key

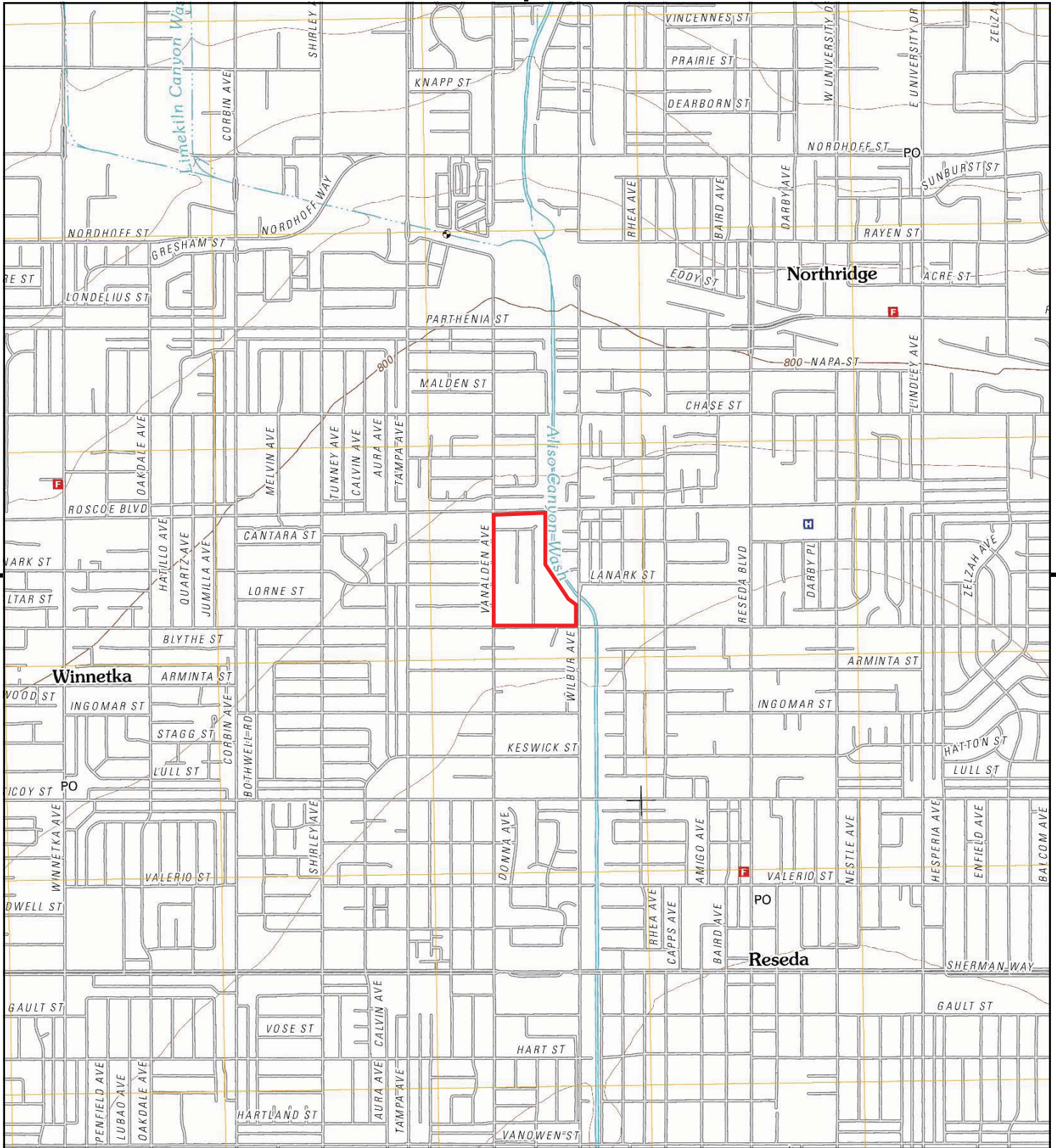
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1903 Source Sheets

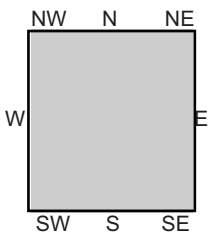
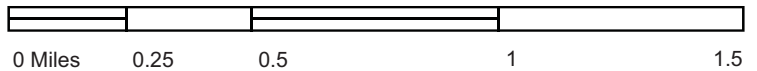


Calabasas

15-minute, 62500



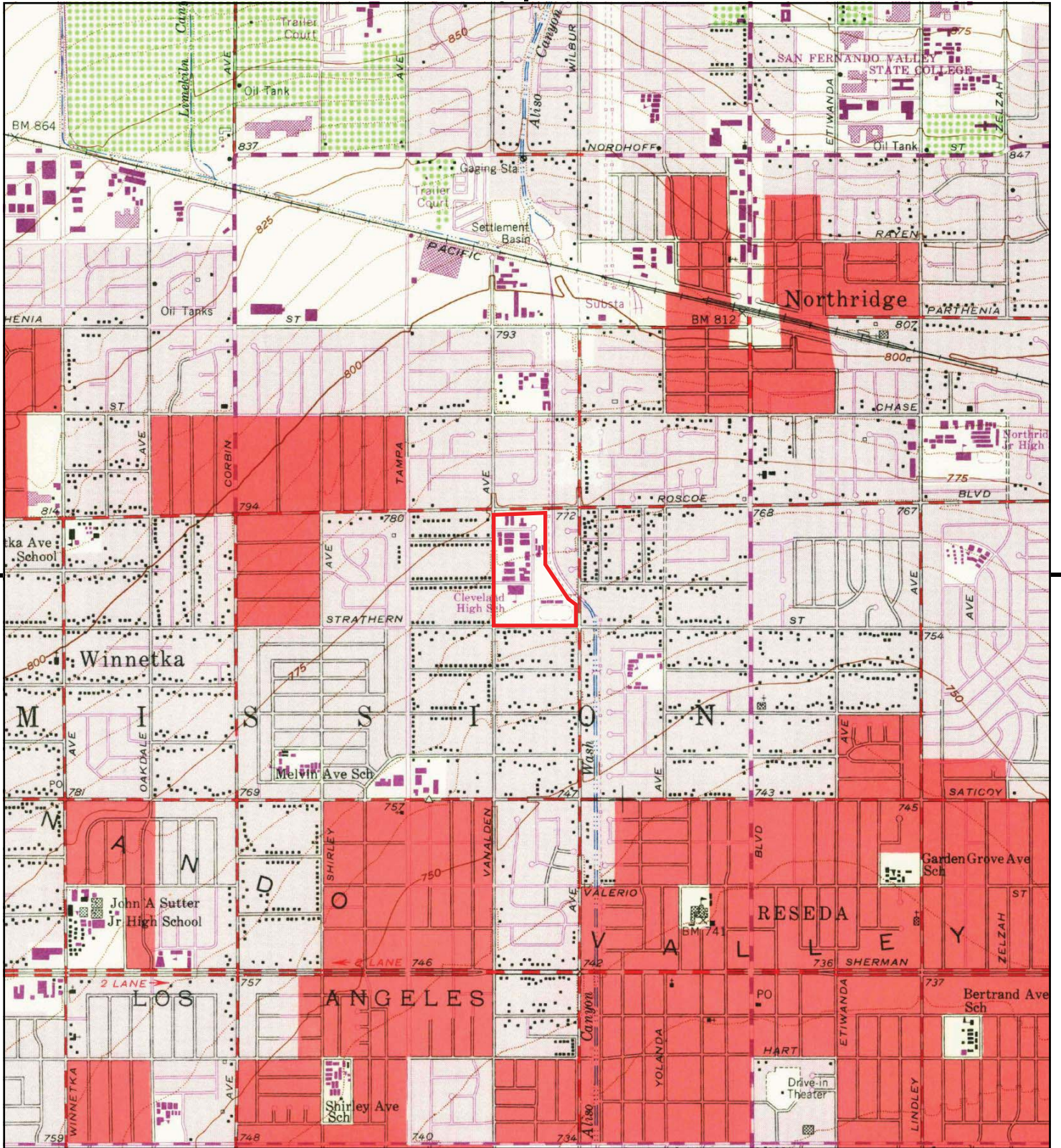
This report includes information from the following map sheet(s).



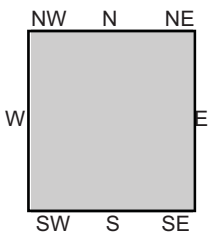
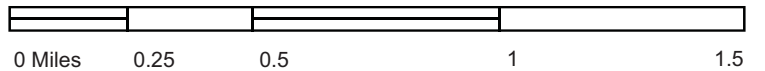
TP, Canoga Park, 2012, 7.5-minute

SITE NAME: Cleveland Charter High School
 ADDRESS: 8140 Vanalden Avenue
 Reseda, CA 91335
 CLIENT: Ninyo & Moore





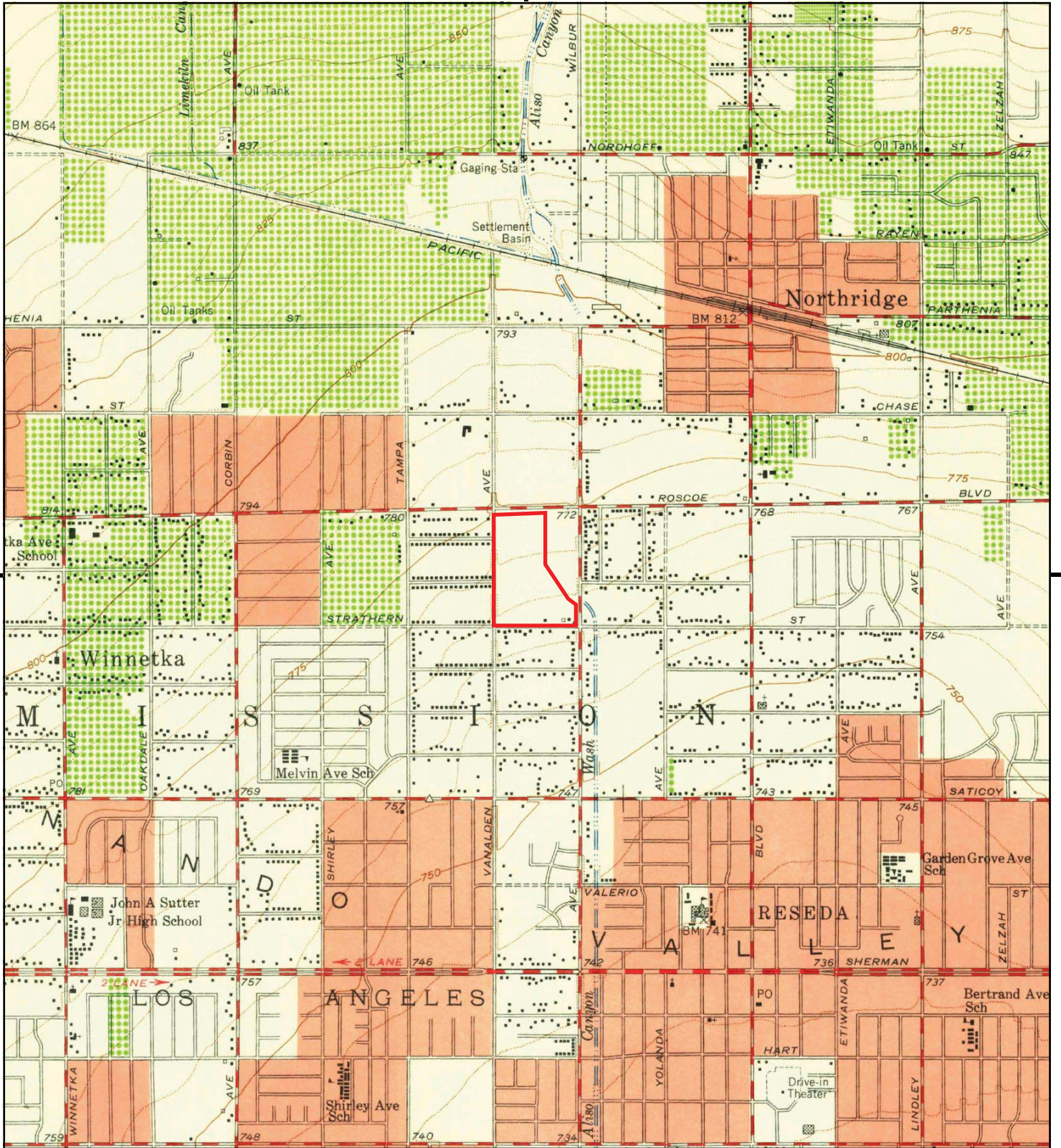
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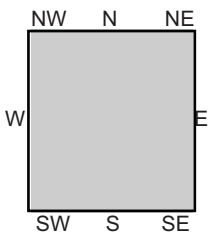
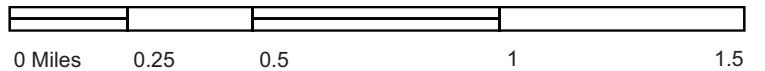
TP, Canoga Park, 1967, 7.5-minute

SITE NAME: Cleveland Charter High School
 ADDRESS: 8140 Vanalden Avenue
 Reseda, CA 91335
 CLIENT: Ninyo & Moore





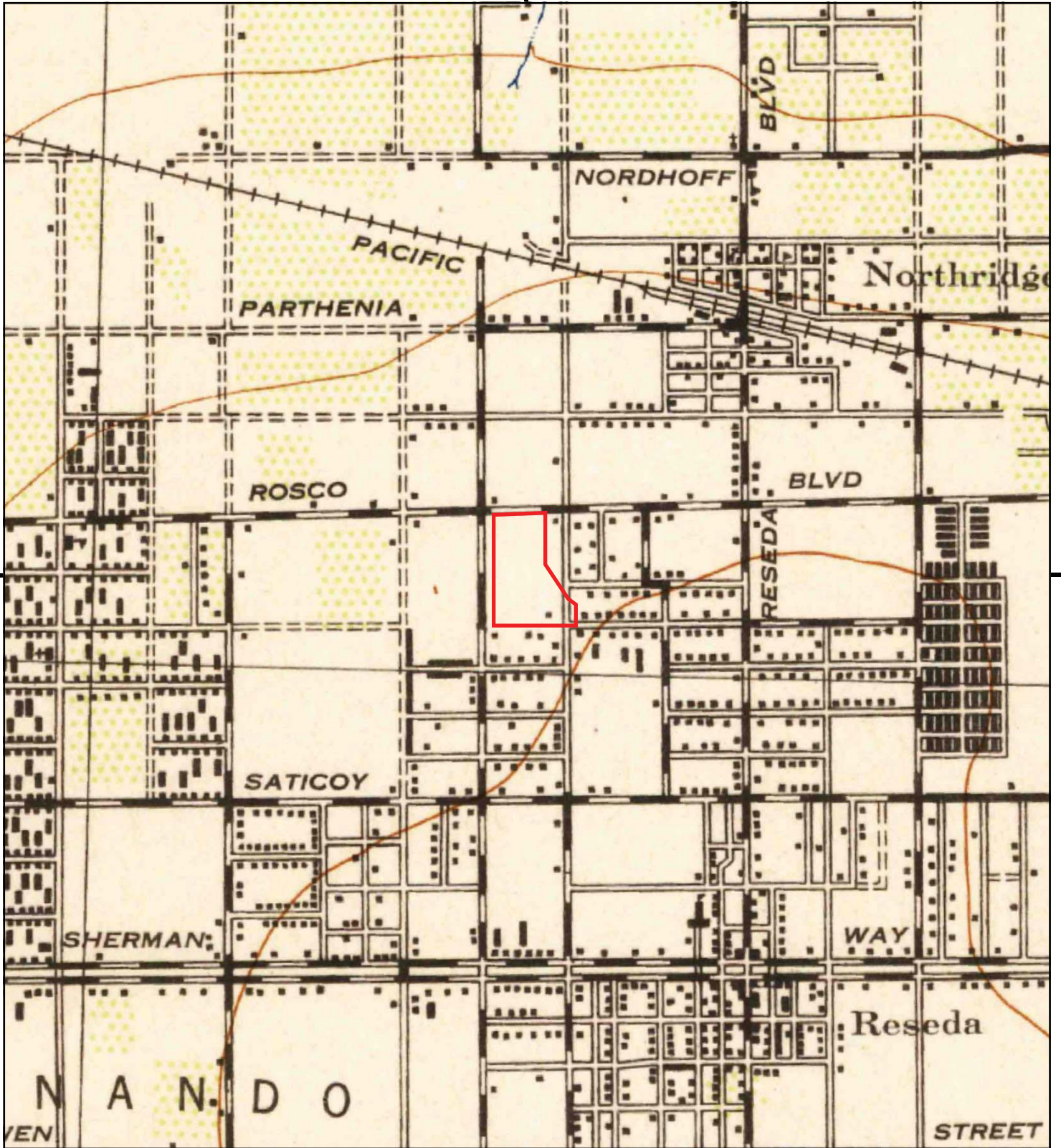
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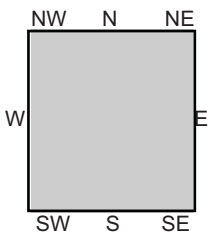
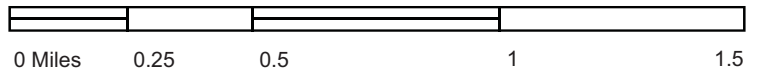
TP, Canoga Park, 1952, 7.5-minute

SITE NAME: Cleveland Charter High School
 ADDRESS: 8140 Vanalden Avenue
 Reseda, CA 91335
 CLIENT: Ninyo & Moore





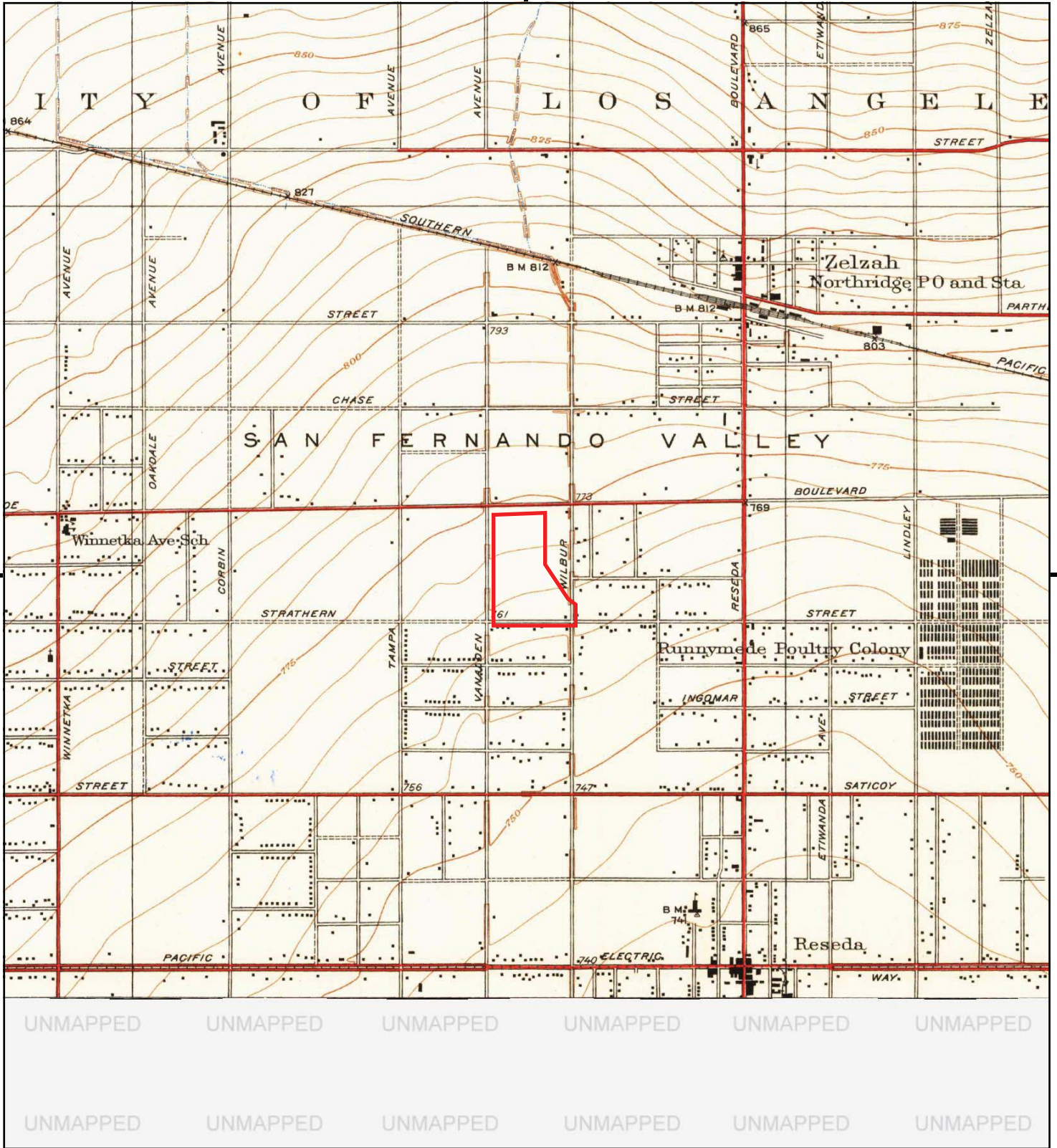
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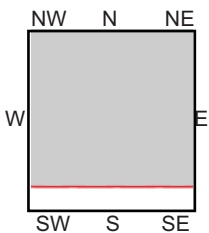
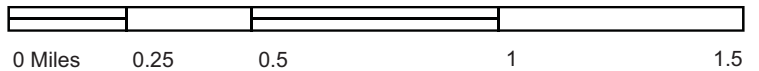
TP, Calabasas, 1944, 15-minute

SITE NAME: Cleveland Charter High School
 ADDRESS: 8140 Vanalden Avenue
 Reseda, CA 91335
 CLIENT: Ninyo & Moore





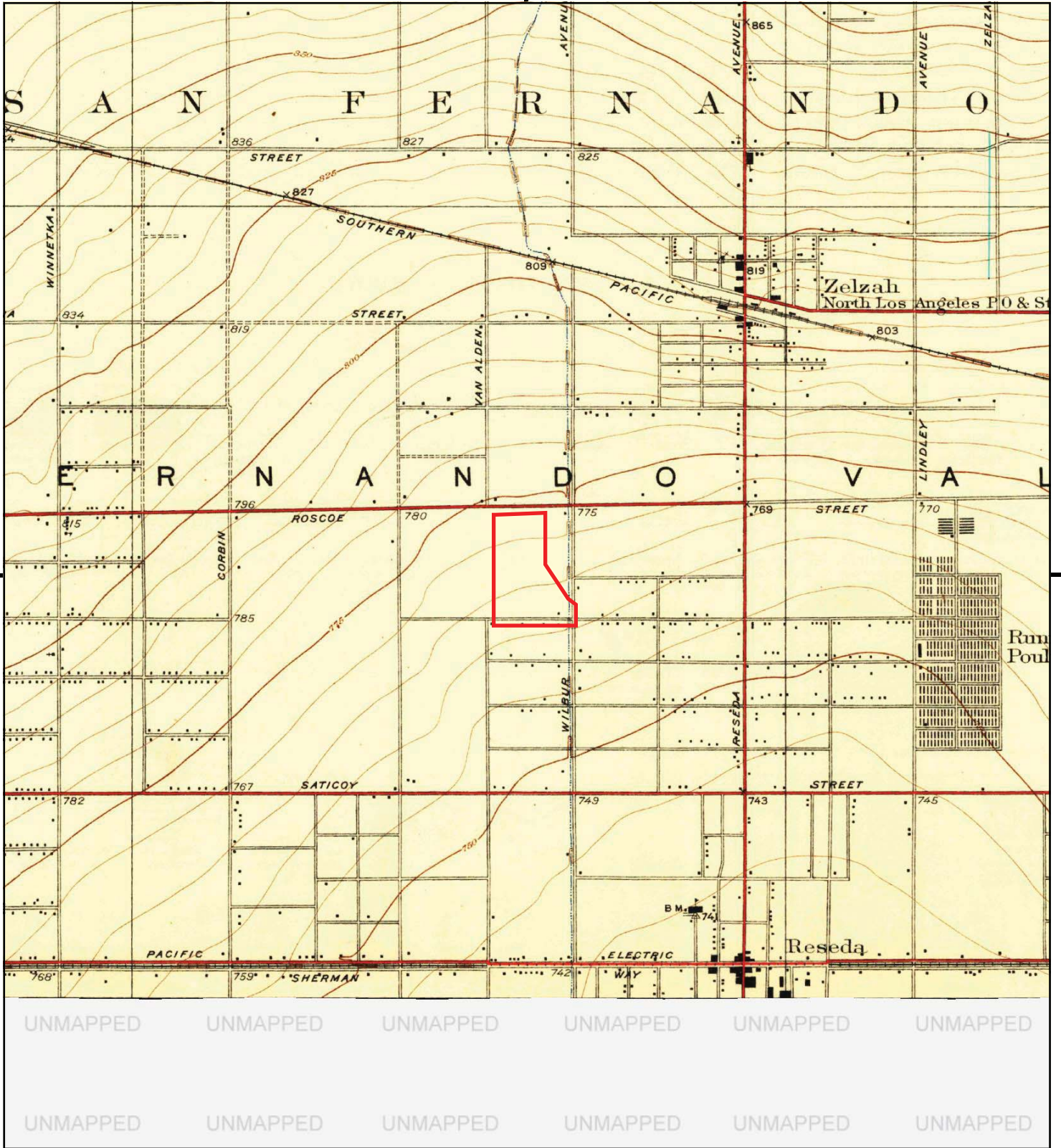
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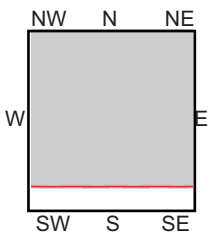
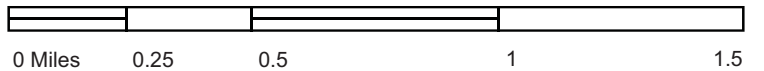
TP, Zelzah, 1941, 7.5-minute

SITE NAME: Cleveland Charter High School
 ADDRESS: 8140 Vanalden Avenue
 Reseda, CA 91335
 CLIENT: Ninyo & Moore





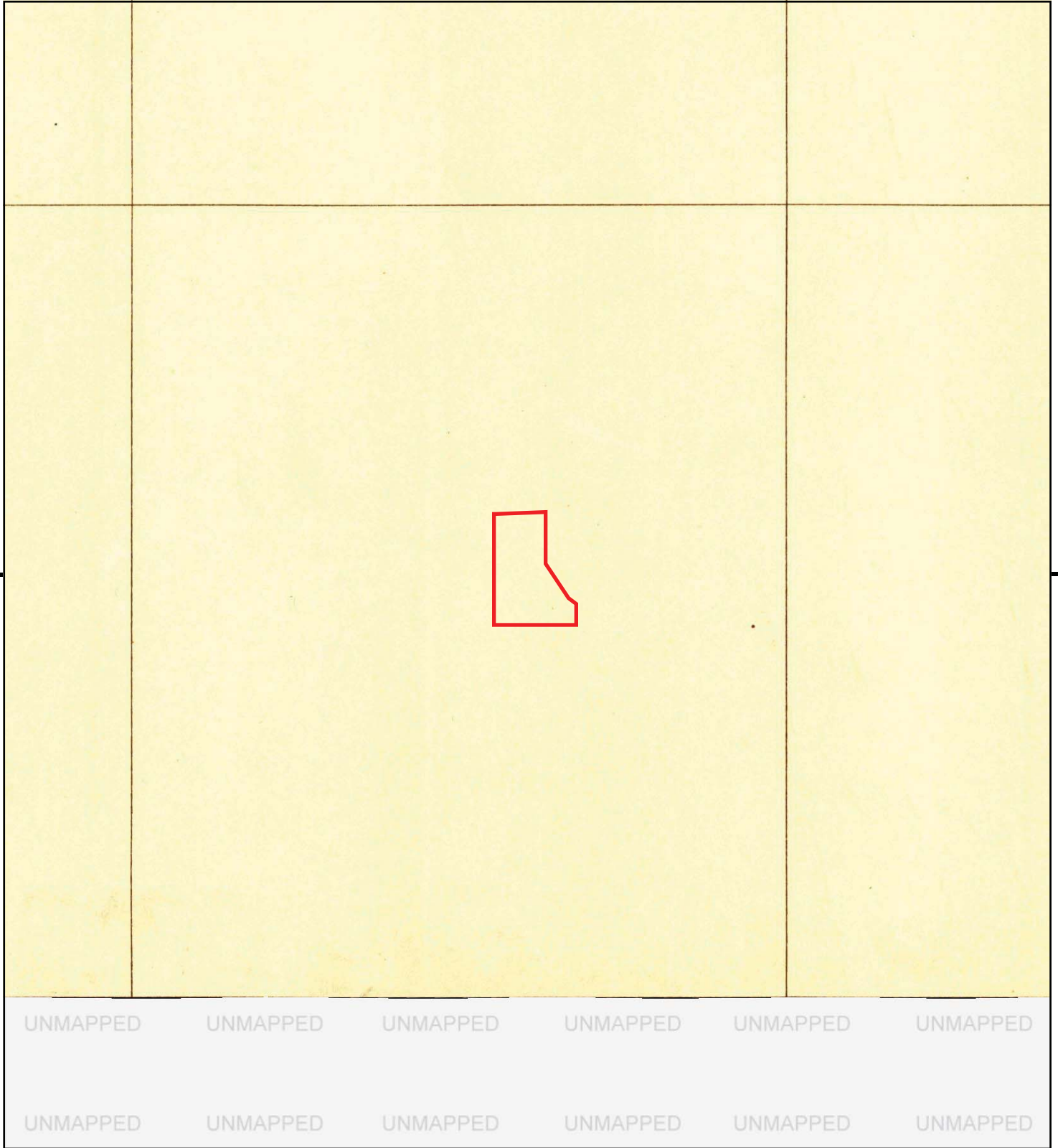
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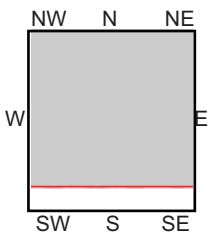
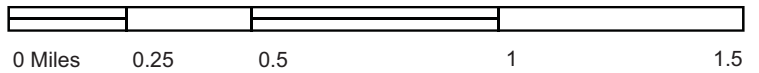
TP, Zelzah, 1932, 7.5-minute

SITE NAME: Cleveland Charter High School
 ADDRESS: 8140 Vanalden Avenue
 Reseda, CA 91335
 CLIENT: Ninyo & Moore





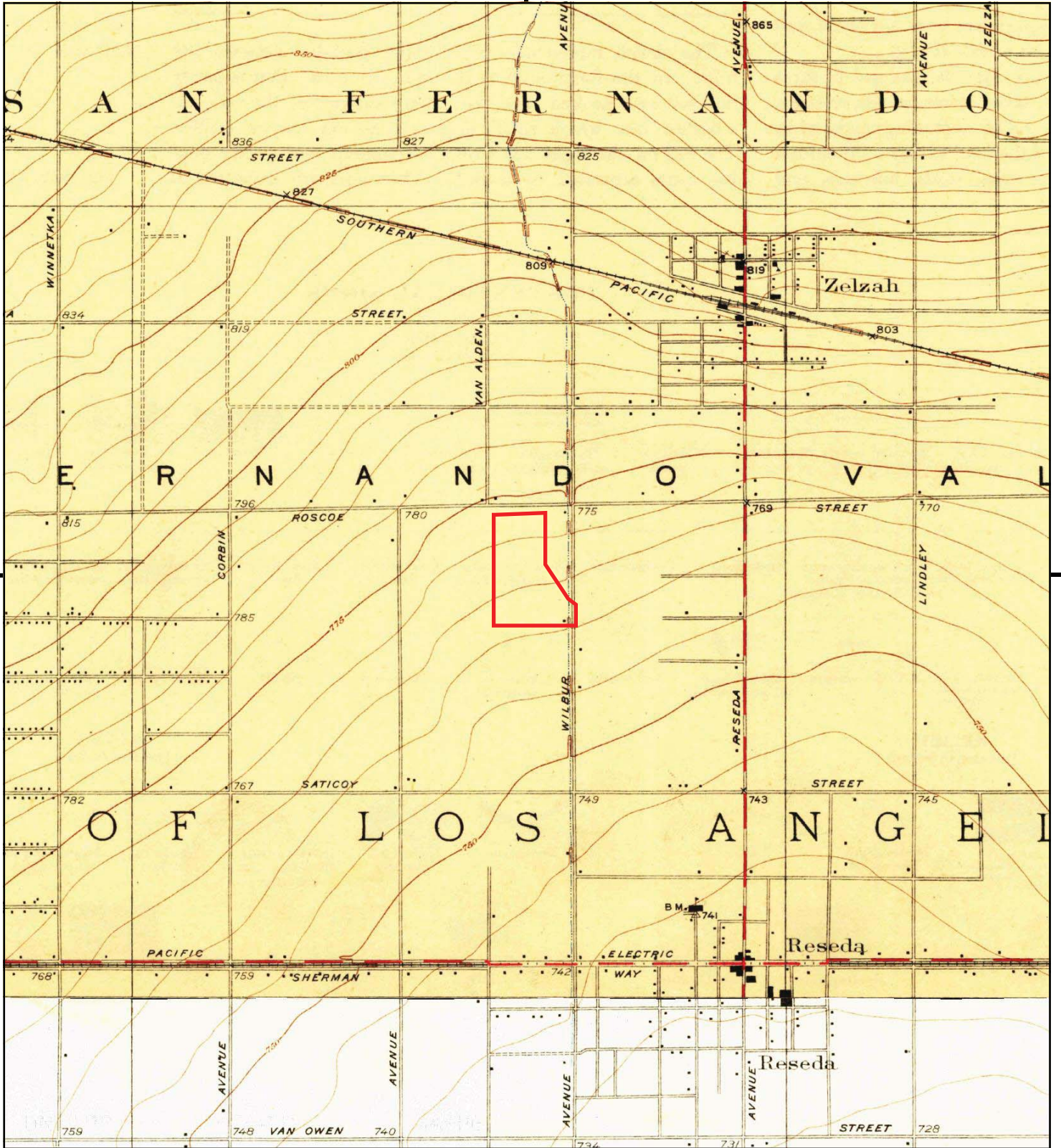
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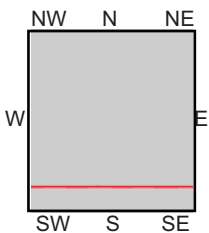
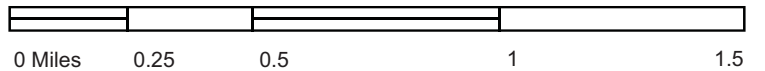
TP, Zelzah, 1929, 7.5-minute

SITE NAME: Cleveland Charter High School
ADDRESS: 8140 Vanalden Avenue
Reseda, CA 91335
CLIENT: Ninyo & Moore





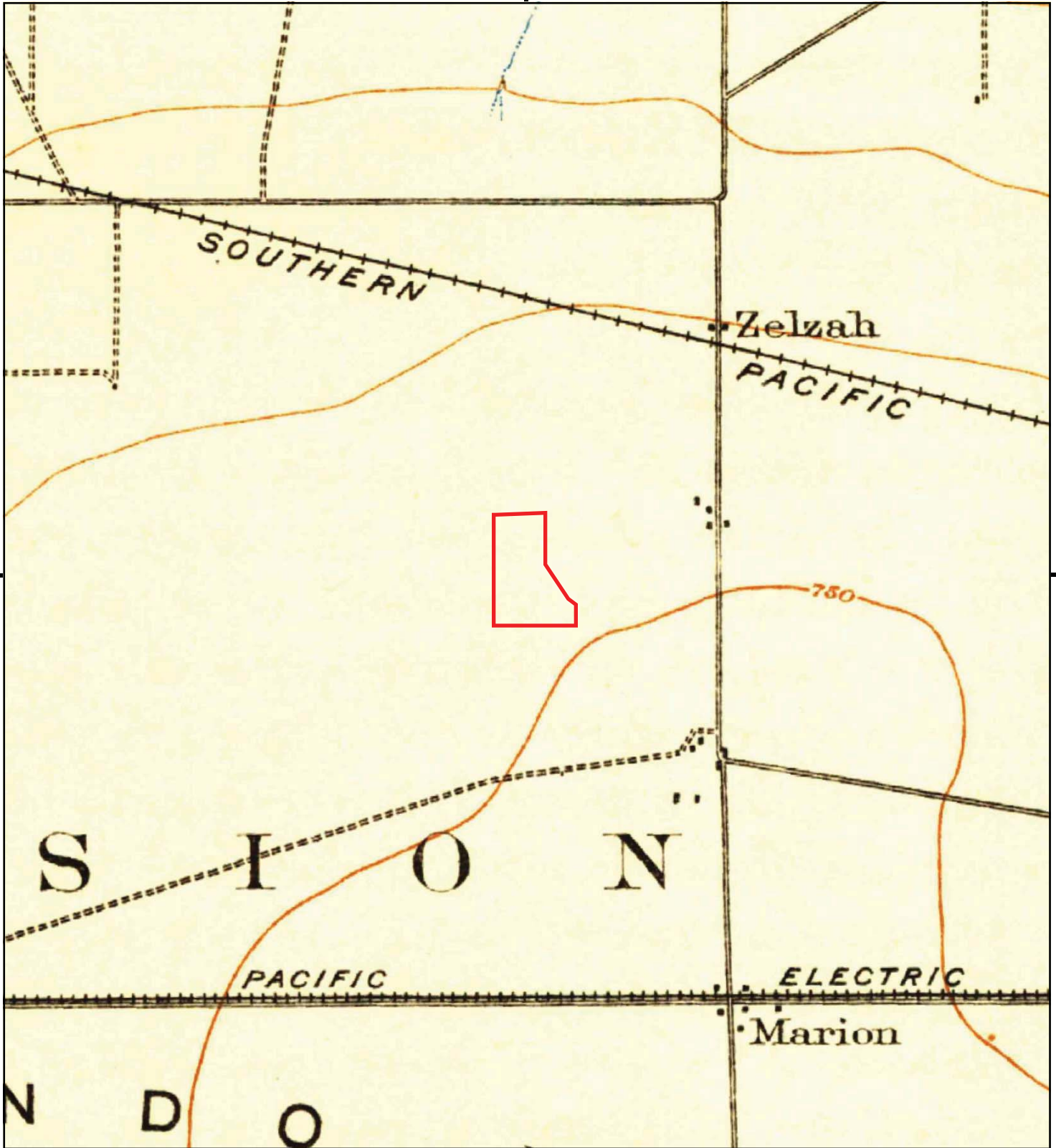
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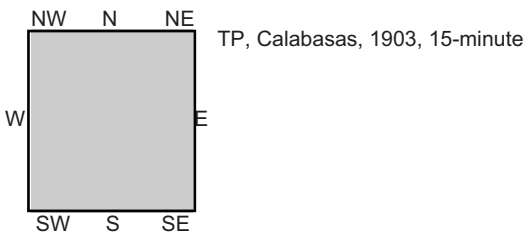
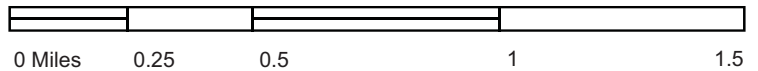
TP, Zelzah, 1928, 7.5-minute
S, Reseda, 1928, 7.5-minute

SITE NAME: Cleveland Charter High School
ADDRESS: 8140 Vanalden Avenue
Reseda, CA 91335
CLIENT: Ninyo & Moore



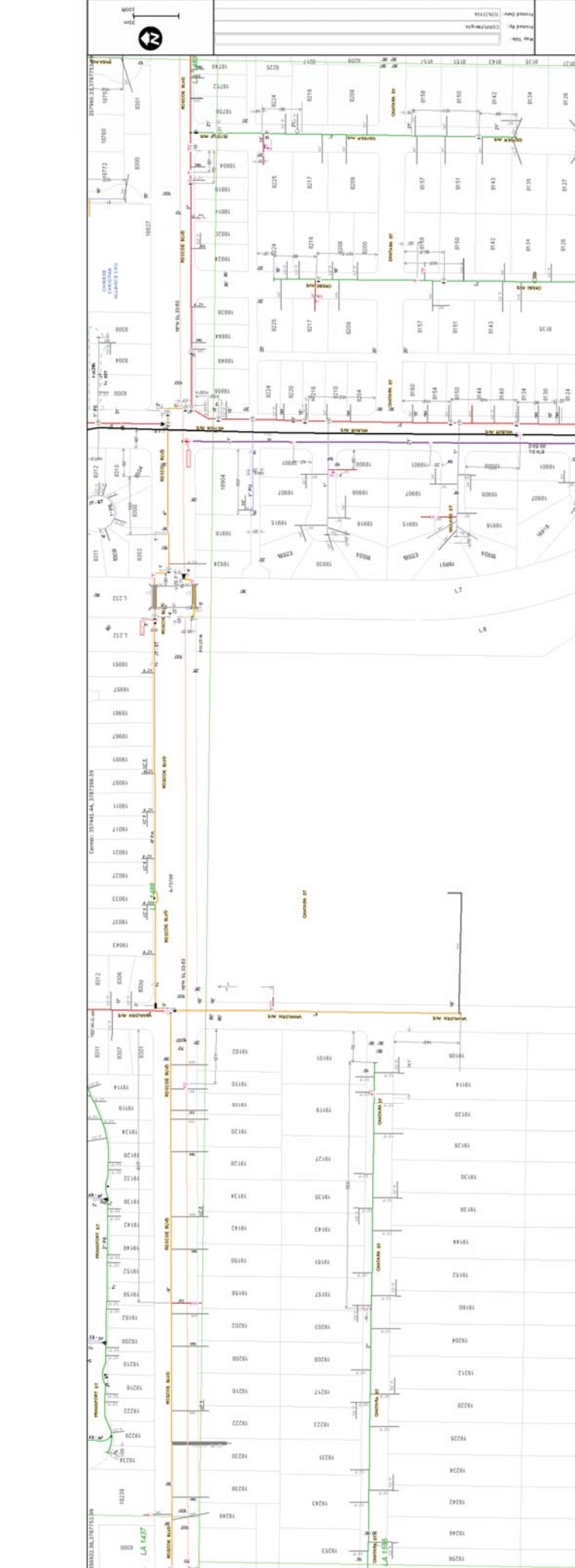
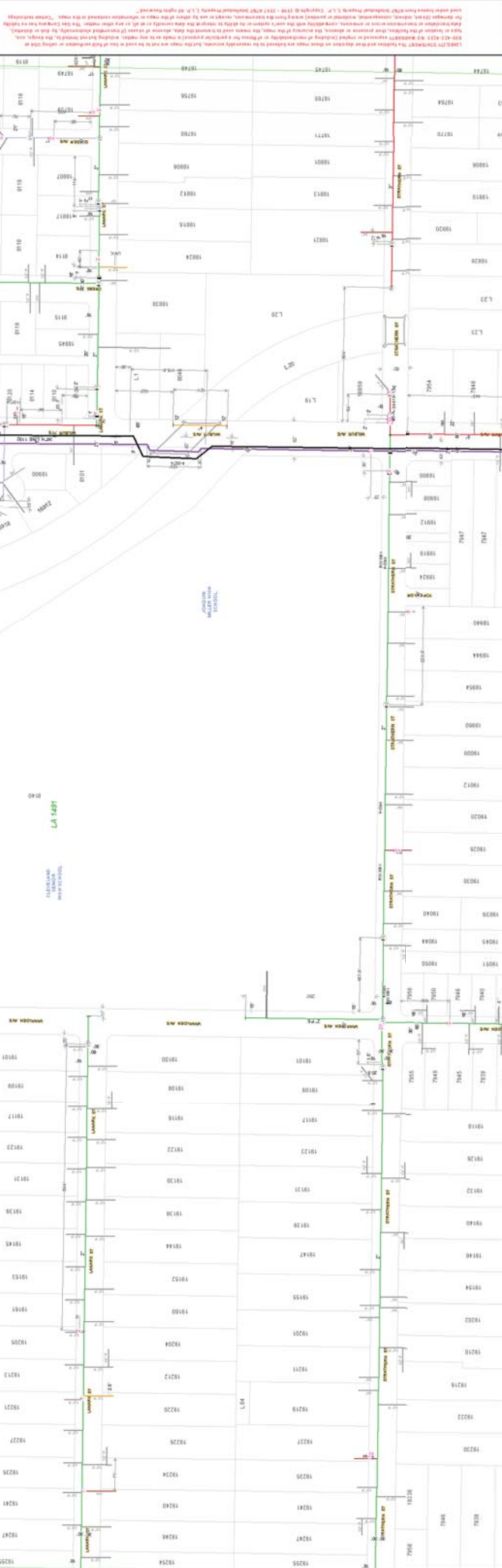


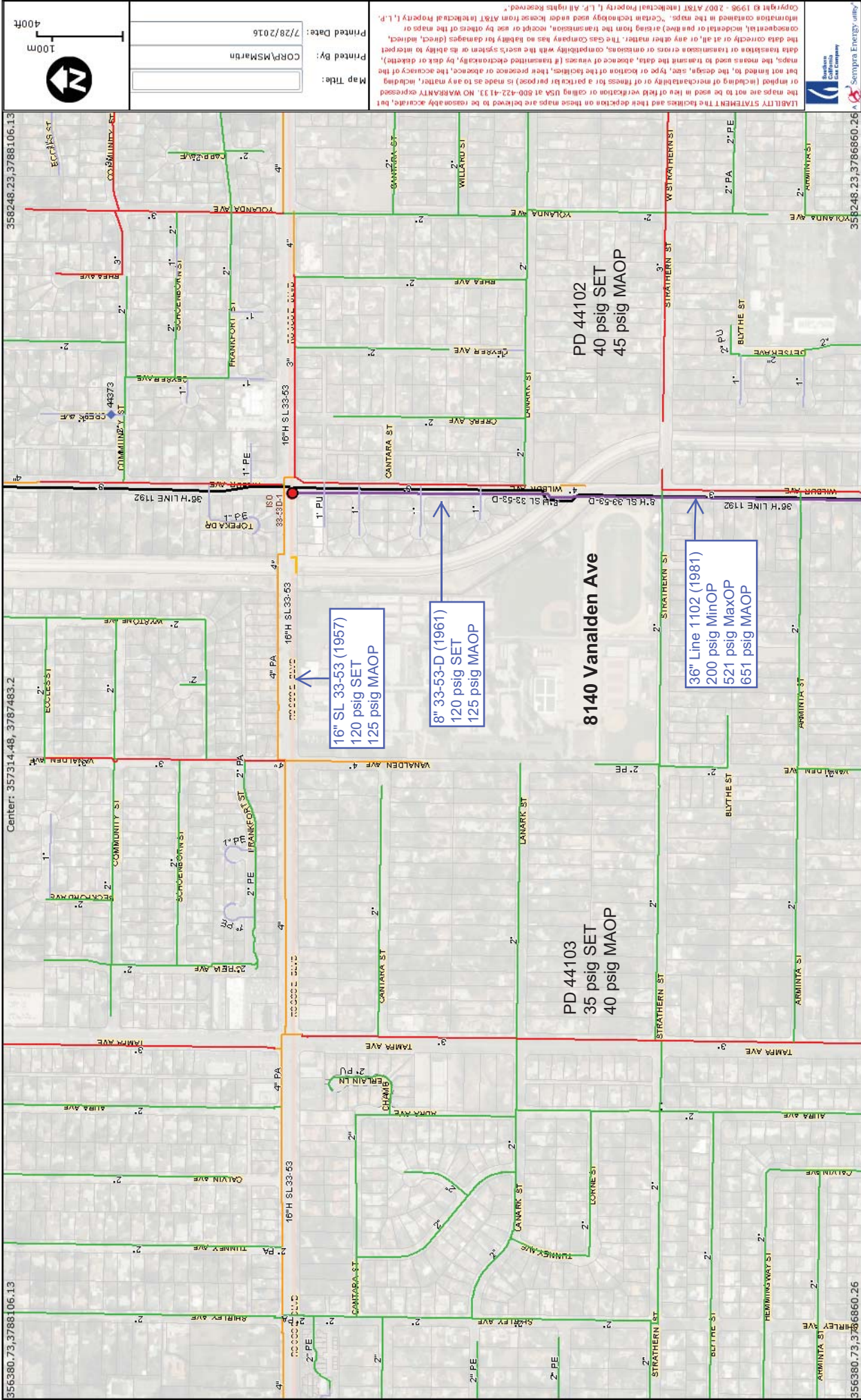
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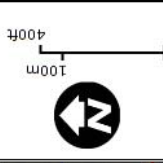
SITE NAME: Cleveland Charter High School
 ADDRESS: 8140 Vanalden Avenue
 Reseda, CA 91335
 CLIENT: Ninyo & Moore







356380.73, 3788106.13
Center: 357314.48, 3787483.2
356248.23, 3788106.13



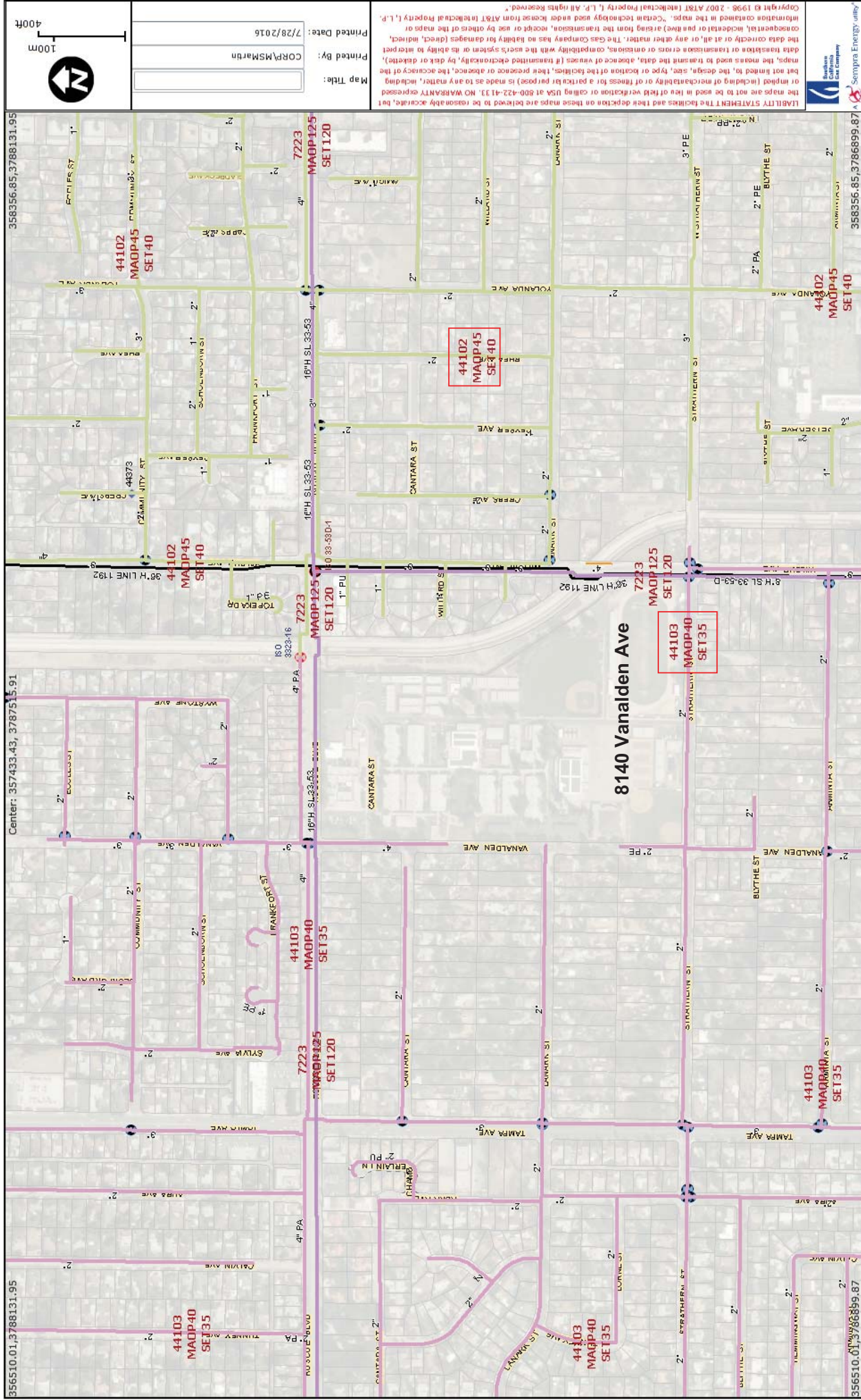
Map Title: _____
 Printed By: CORP/MSMartin
 Printed Date: 7/8/2016

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356380.73, 3788106.13
356248.23, 3788660.26

Medium Pressure Districts



APPENDIX D

ENVIRONMENTAL DATABASE SEARCH REPORT

(ON ATTACHED CD)

Cleveland Charter High School

8140 Vanalden Avenue

Reseda, CA 91335

Inquiry Number: 4648814.2s

June 15, 2016

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
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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

8140 VANALDEN AVENUE
RESEDA, CA 91335

COORDINATES

Latitude (North): 34.2178160 - 34° 13' 4.13"
Longitude (West): 118.5474470 - 118° 32' 50.80"
Universal Transverse Mercator: Zone 11
UTM X (Meters): 357452.8
UTM Y (Meters): 3787195.0
Elevation: 771 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5630737 CANOGA PARK, CA
Version Date: 2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140531
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
8140 VANALDEN AVENUE
RESEDA, CA 91335

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	LAUSD/ CLEVELAND HIG	8140 VANALDEN AVE	HAZNET		TP
2	MILLER CAREER AND TR	8218 VANALDEN AVE	RCRA-LQG	Higher	11, 0.002, NNW
3		19106 CANTARA ST	EDR Hist Auto	Higher	256, 0.048, NW
A4		18912 ROSCOE BLVD	EDR Hist Cleaner	Higher	283, 0.054, NNE
A5	THRIFTY #0069	18904 ROSCOE BLVD	LUST	Higher	366, 0.069, NNE
A6	THRIFTY #0069	18904 ROSCOE	LUST, HIST CORTESE	Higher	366, 0.069, NNE
A7	ARCO STN 069	18904 ROSCOE BLVD	HIST UST	Higher	366, 0.069, NNE
8		19130 LANARK ST	EDR Hist Cleaner	Higher	396, 0.075, West
B9	BLYTHE STREET ELEMEN	18730 BLYTHE ST	RCRA-LQG	Lower	1143, 0.216, ESE
B10	VALLEY REGION BLYTHE	18730 BLYTHE STREET	ENVIROSTOR, SCH	Lower	1143, 0.216, ESE
11	ANDREW CLEANERS	8235 TAMPA AVE	RCRA-SQG, SLIC, BROWNFIELDS, FINDS, DRYCLEANERS,...	Higher	1372, 0.260, WNW
12	PRECISION AUTO	7654 TAMPA	LUST, EMI, HIST CORTESE	Lower	2560, 0.485, SSW
13	JMP PLATING, INC.	19019 PARTHENIA STRE	ENVIROSTOR	Higher	2902, 0.550, North
14	CIRCUIT SERVICES	18640 PARTHENIA STRE	ENVIROSTOR	Higher	3504, 0.664, NNE
15	PRICE CLUB #437	8810 TAMPA AVENUE	ENVIROSTOR, LUST, HIST CORTESE	Higher	3959, 0.750, NNW
16	COST REDUCTIONS	18351 EDDY STREET #A	ENVIROSTOR	Higher	4937, 0.935, NE

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:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
LAUSD/ CLEVELAND HIG 8140 VANALDEN AVE RESEDA, CA 91335	HAZNET GEPaid: CAD982039281	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-SQG..... RCRA - Small Quantity Generators

EXECUTIVE SUMMARY

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
UST..... Active UST Facilities
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

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
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

EXECUTIVE SUMMARY

US HIST CDL..... Delisted National Clandestine Laboratory Register
HIST Cal-Sites..... Historical Calsites Database
CDL..... Clandestine Drug Labs
Toxic Pits..... Toxic Pits Cleanup Act Sites
US CDL..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

SWEEPS UST..... SWEEPS UST Listing
CA FID UST..... Facility Inventory Database

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
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program

EXECUTIVE SUMMARY

UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
FINDS.....	Facility Index System/Facility Registry System
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
EMI.....	Emissions Inventory Data
ENF.....	Enforcement Action Listing
Financial Assurance.....	Financial Assurance Information Listing
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
ECHO.....	Enforcement & Compliance History Information
FUELS PROGRAM.....	EPA Fuels Program Registered Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF..... Recovered Government Archive Solid Waste Facilities List
RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal 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 are 2 RCRA-LQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MILLER CAREER AND TR	8218 VANALDEN AVE	NNW 0 - 1/8 (0.002 mi.)	2	10
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BLYTHE STREET ELEMEN	18730 BLYTHE ST	ESE 1/8 - 1/4 (0.216 mi.)	B9	16

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 identifies 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.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
JMP PLATING, INC. Facility Id: 71003671 Status: Inactive - Needs Evaluation	19019 PARTHENIA STRE	N 1/2 - 1 (0.550 mi.)	13	30
CIRCUIT SERVICES Facility Id: 71002784 Status: Refer: Other Agency	18640 PARTHENIA STRE	NNE 1/2 - 1 (0.664 mi.)	14	32
PRICE CLUB #437 Facility Id: 71003266 Status: Refer: Other Agency	8810 TAMPA AVENUE	NNW 1/2 - 1 (0.750 mi.)	15	33
COST REDUCTIONS Facility Id: 71003221 Status: Refer: Other Agency	18351 EDDY STREET #A	NE 1/2 - 1 (0.935 mi.)	16	37
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
VALLEY REGION BLYTHE	18730 BLYTHE STREET	ESE 1/8 - 1/4 (0.216 mi.)	B10	17

EXECUTIVE SUMMARY

Facility Id: 60000778
Status: Certified

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 3 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
THRIFTY #0069 Facility Id: 913240589 Status: Case Closed Global ID: T0603702162	18904 ROSCOE BLVD	NNE 0 - 1/8 (0.069 mi.)	A5	12
THRIFTY #0069 Status: Completed - Case Closed Global Id: T0603702162	18904 ROSCOE	NNE 0 - 1/8 (0.069 mi.)	A6	13
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PRECISION AUTO Status: Completed - Case Closed Facility Id: 913350434 Status: Case Closed Global Id: T0603702217 Global ID: T0603702217	7654 TAMPA	SSW 1/4 - 1/2 (0.485 mi.)	12	27

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 is 1 SLIC site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ANDREW CLEANERS Facility Status: Completed - Case Closed Global Id: SL0603740449	8235 TAMPA AVE	WNW 1/4 - 1/2 (0.260 mi.)	11	22

State and tribal Brownfields sites

BROWNFIELDS: A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

A review of the BROWNFIELDS list, as provided by EDR, and dated 02/29/2016 has revealed that there is

EXECUTIVE SUMMARY

1 BROWNFIELDS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ANDREW CLEANERS	8235 TAMPA AVE	WNW 1/4 - 1/2 (0.260 mi.)	11	22

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

SCH: 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.

A review of the SCH list, as provided by EDR, and dated 02/01/2016 has revealed that there is 1 SCH site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
VALLEY REGION BLYTHE Facility Id: 60000778 Status: Certified	18730 BLYTHE STREET	ESE 1/8 - 1/4 (0.216 mi.)	B10	17

Local Lists of Registered Storage Tanks

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.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ARCO STN 069 Facility Id: 00000005584	18904 ROSCOE BLVD	NNE 0 - 1/8 (0.069 mi.)	A7	14

Other Ascertainable Records

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSTATES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 HIST CORTESE sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
THRIFTY #0069 Reg Id: 913240589	18904 ROSCOE	NNE 0 - 1/8 (0.069 mi.)	A6	13
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PRECISION AUTO	7654 TAMPA	SSW 1/4 - 1/2 (0.485 mi.)	12	27

EXECUTIVE SUMMARY

Reg Id: 913350434

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.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	19106 CANTARA ST	NW 0 - 1/8 (0.048 mi.)	3	11

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.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	18912 ROSCOE BLVD	NNE 0 - 1/8 (0.054 mi.)	A4	11
Not reported	19130 LANARK ST	W 0 - 1/8 (0.075 mi.)	8	15

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 2 records.

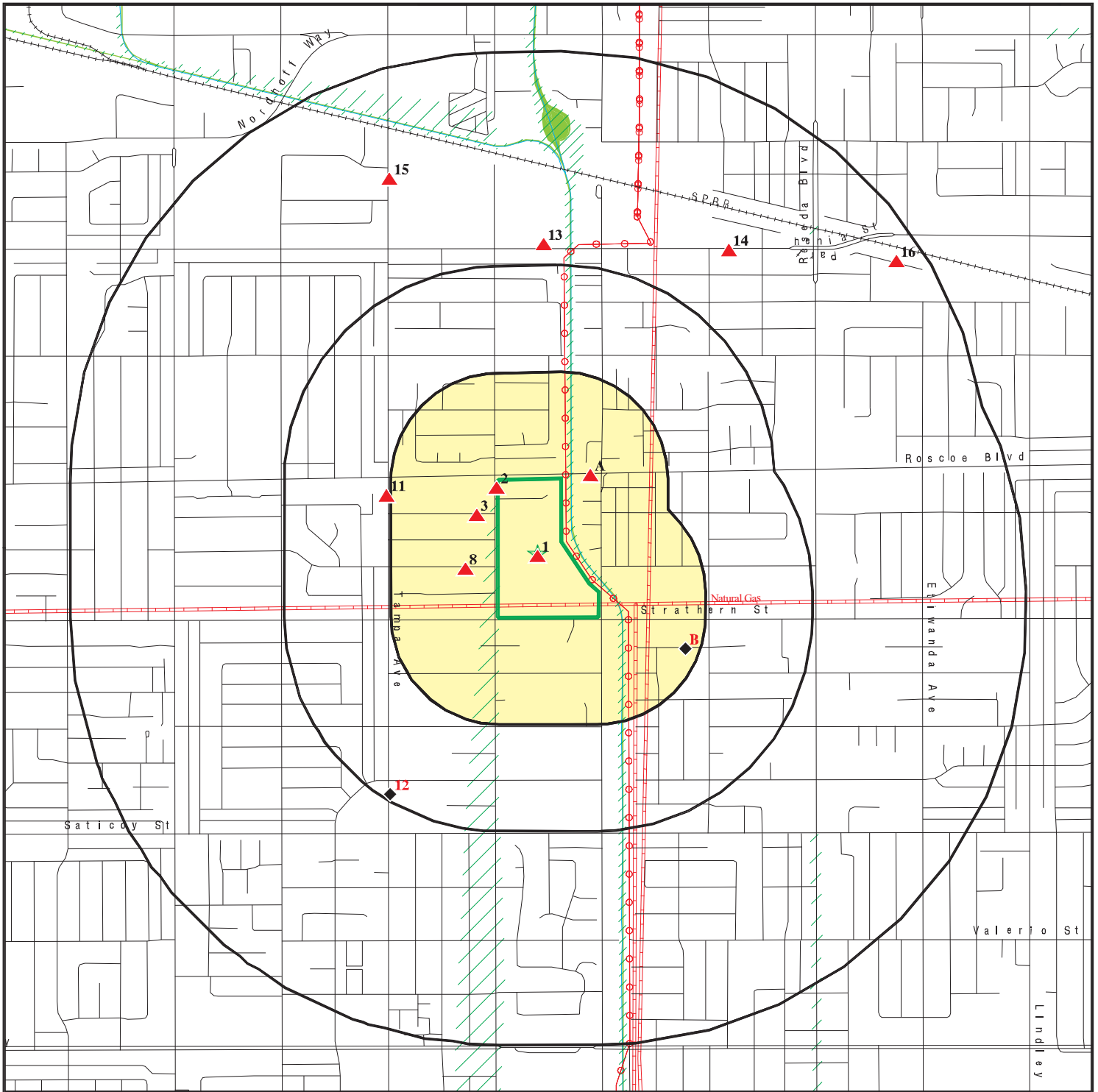
Site Name

VALLEY REGION ELEMENTARY SCHOOL #1
LOEHMANN'S PLAZA

Database(s)

ENVIROSTOR, SCH, DEED
SEMS-ARCHIVE

OVERVIEW MAP - 4648814.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

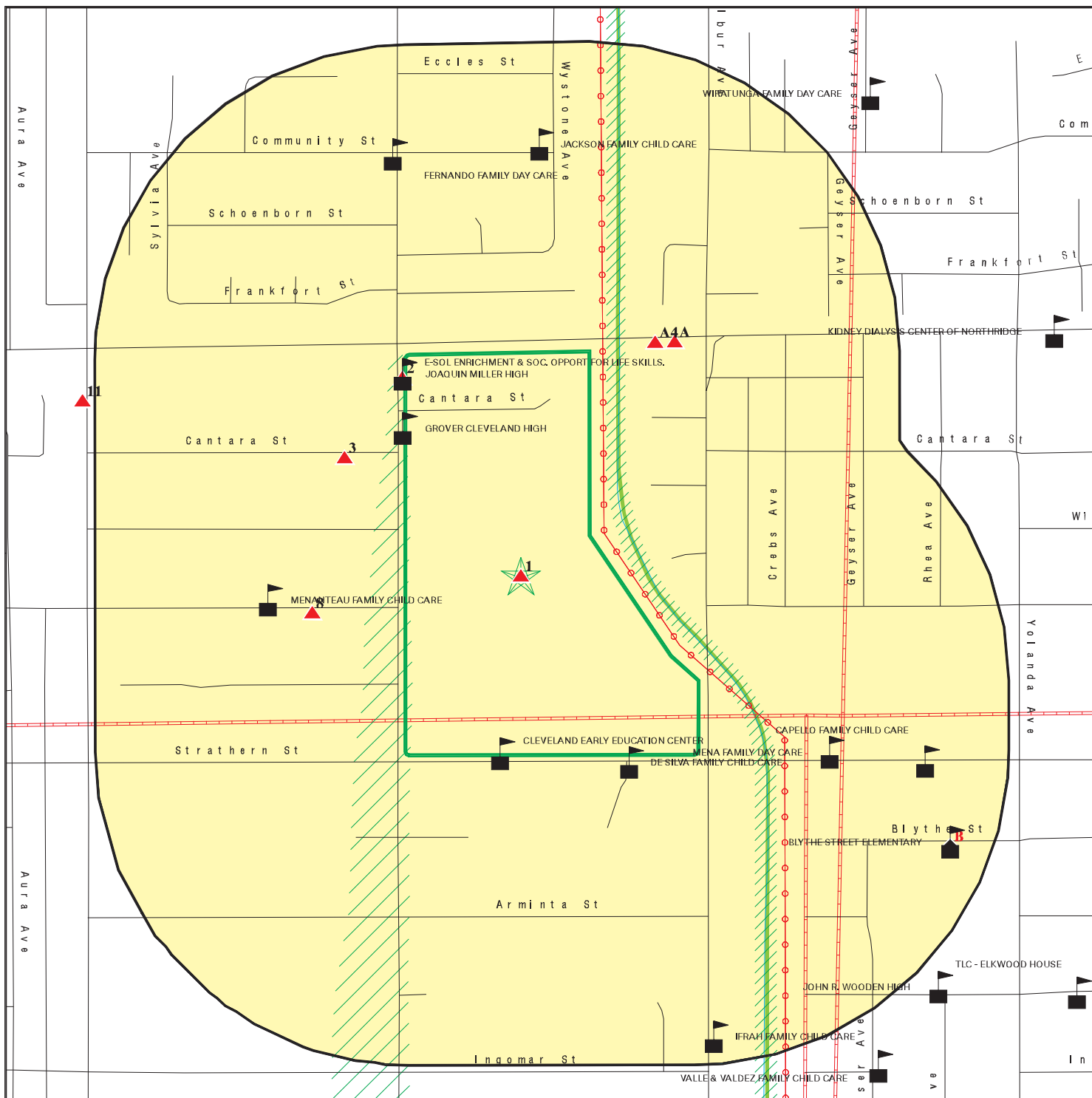


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Cleveland Charter High School
 ADDRESS: 8140 Vanalden Avenue
 Reseda CA 91335
 LAT/LONG: 34.217816 / 118.547447

CLIENT: Ninyo & Moore
 CONTACT: Patrick Cullip
 INQUIRY #: 4648814.2s
 DATE: June 15, 2016 8:14 pm

DETAIL MAP - 4648814.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

Pipelines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

0 1/16 1/8 1/4 Miles



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: Cleveland Charter High School
 ADDRESS: 8140 Vanalden Avenue
 Reseda CA 91335
 LAT/LONG: 34.217816 / 118.547447

CLIENT: Ninyo & Moore
 CONTACT: Patrick Cullip
 INQUIRY #: 4648814.2s
 DATE: June 15, 2016 8:15 pm

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								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		1	1	NR	NR	NR	2
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
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
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
RESPONSE	1.000		0	0	0	0	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
ENVIROSTOR	1.000		0	1	0	4	NR	5
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		2	0	1	NR	NR	3

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	0	1	NR	NR	1
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	1	NR	NR	1
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	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	1	NR	NR	NR	1
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		1	0	NR	NR	NR	1
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		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	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	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	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	1	NR	NR	NR	NR	NR	1
HIST CORTESE	0.500		1	0	1	NR	NR	2
LOS ANGELES CO. HMS	TP		NR	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	TP		NR	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
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	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0

- Totals --		1	8	3	4	4	0	20
-------------	--	---	---	---	---	---	---	----

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1
Target
Property

LAUSD/ CLEVELAND HIGH SCHOOL
8140 VANALDEN AVE
RESEDA, CA 91335

HAZNET S113013217
N/A

Actual:
771 ft.

HAZNET:

envid: S113013217
Year: 2014
GEPaid: CAD982039281
Contact: PAT SCHAENEN
Telephone: 2132413921
Mailing Name: Not reported
Mailing Address: 781 S BEAUDRY AVE FL 28
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Los Angeles
TSD EPA ID: CAT080013352
TSD County: Los Angeles
Waste Category: Waste oil and mixed oil
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,
Organics Recovery Ect
Tons: 1,463
Cat Decode: Waste oil and mixed oil
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,
Organics Recovery Ect
Facility County: Los Angeles

envid: S113013217
Year: 2012
GEPaid: CAD982039281
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: NVT330010000
TSD County: 99
Waste Category: Not reported
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,
Organics Recovery Ect
Tons: 1,323
Cat Decode: Not reported
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration,
Organics Recovery Ect
Facility County: Los Angeles

envid: S113013217
Year: 2010
GEPaid: CAD982039281
Contact: SOE AUNG
Telephone: 2137455939
Mailing Name: Not reported
Mailing Address: 333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Unspecified aqueous solution
Disposal Method: Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without
Treatment)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

LAUSD/ CLEVELAND HIGH SCHOOL (Continued)

S113013217

Tons: 0.231
Cat Decode: Unspecified aqueous solution
Method Decode: Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Facility County: Los Angeles

envid: S113013217
Year: 2010
GEPaid: CAD982039281
Contact: SOE AUNG
Telephone: 2137455939
Mailing Name: Not reported
Mailing Address: 333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Unspecified aqueous solution
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect

Tons: 6.3
Cat Decode: Unspecified aqueous solution
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

envid: S113013217
Year: 2009
GEPaid: CAD982039281
Contact: SOE AUNG / ECM
Telephone: 2132413199
Mailing Name: Not reported
Mailing Address: 333 S BEAUDRY AVE 20TH FLOOR
Mailing City,St,Zip: Los Angeles, CA 900170000
Gen County: Not reported
TSD EPA ID: CAT080013352
TSD County: Not reported
Waste Category: Waste oil and mixed oil
Disposal Method: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect

Tons: 3.42
Cat Decode: Waste oil and mixed oil
Method Decode: Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County: Los Angeles

[Click this hyperlink](#) while viewing on your computer to access 21 additional CA_HAZNET: record(s) in the EDR Site Report.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

2
NNW
< 1/8
0.002 mi.
11 ft.

MILLER CAREER AND TRANSITION CENTER
8218 VANALDEN AVE
RESEDA, CA 91335

RCRA-LQG 1011488126
CAR000192641

**Relative:
Higher**

RCRA-LQG:

Date form received by agency: 05/29/2008

Facility name: MILLER CAREER AND TRANSITION CENTER

Facility address: 8218 VANALDEN AVE

RESEDA, CA 91335

EPA ID: CAR000192641

Mailing address: 333 S BEAUDRY AVE

LAUSD OEHS 20TH FLOOR

LOS ANGELES, CA 90017

Contact: SOE AUNG

Contact address: 333 S BEAUDRY AVE LAUSD OEHS 20TH FLOOR

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: 06/17/1988

Owner/Op end date: Not reported

Owner/operator name: MILLER CAREER AND TRANSITION CENTER

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: District

Owner/Operator Type: Operator

Owner/Op start date: 06/17/1988

Owner/Op end date: Not reported

Handler Activities Summary:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MILLER CAREER AND TRANSITION CENTER (Continued)

1011488126

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

3
NW
< 1/8
0.048 mi.
256 ft.

**19106 CANTARA ST
RESEDA, CA 91335**

**EDR Hist Auto 1015291462
N/A**

**Relative:
Higher**

EDR Historical Auto Stations:

Name: STATE AUTO BODY
Year: 2007
Address: 19106 CANTARA ST

**Actual:
776 ft.**

Name: RESEDA AUTO BODY & PAINT
Year: 2008
Address: 19106 CANTARA ST

Name: STATE AUTO BODY & PAINT SUPPLIES
Year: 2009
Address: 19106 CANTARA ST

A4
NNE
< 1/8
0.054 mi.
283 ft.

**18912 ROSCOE BLVD
NORTHRIDGE, CA 91324**

**EDR Hist Cleaner 1015008970
N/A**

Site 1 of 4 in cluster A

**Relative:
Higher**

EDR Historical Cleaners:

Name: COIN LAUNDRY
Year: 2006
Address: 18912 ROSCOE BLVD

**Actual:
777 ft.**

Name: COIN LAUNDRY
Year: 2007
Address: 18912 ROSCOE BLVD

Name: COIN LAUNDRY ON ROSCOE
Year: 2009

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

1015008970

Address: 18912 ROSCOE BLVD

A5
NNE
 < 1/8
 0.069 mi.
 366 ft.

THRIFTY #0069
18904 ROSCOE BLVD
NORTHRIDGE, CA 91324

LUST S101297643
N/A

Site 2 of 4 in cluster A

Relative:
Higher

LUST REG 4:

Actual:
776 ft.

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	913240589	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:	FPED	
Global ID:	T0603702162	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	WILBUR AVE	
Enforcement Type:	Not reported	
Date Leak Discovered:	8/14/1987	
Date Leak First Reported:	9/10/1987	
Date Leak Record Entered:	11/16/1987	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	8/14/1987	
Date Case Last Changed on Database:	7/1/1997	
Date the Case was Closed:	12/12/1996	
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Tank	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):	4307.7140856014584582745433656	
Source of Cleanup Funding:	Tank	
Preliminary Site Assessment Workplan Submitted:	Not reported	
Preliminary Site Assessment Began:	Not reported	
Pollution Characterization Began:	9/10/1987	
Remediation Plan Submitted:	8/28/1995	
Remedial Action Underway:	Not reported	
Post Remedial Action Monitoring Began:	Not reported	
Enforcement Action Date:	Not reported	
Historical Max MTBE Date:	Not reported	
Hist Max MTBE Conc in Groundwater:	Not reported	
Hist Max MTBE Conc in Soil:	Not reported	
Significant Interim Remedial Action Taken:	Yes	
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	THRIFTY OIL CO	
RP Address:	10000 LAKEWOOD BLVD, DOWNEY, CA 90240	

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THRIFTY #0069 (Continued)

S101297643

Program: LUST
Lat/Long: 34.220749 / -118.545207
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: TANKS REMOVED. PRODUCT RECOVERY IS UNDERWAY.

A6
NNE
< 1/8
0.069 mi.
366 ft.

THRIFTY #0069
18904 ROSCOE
NORTHRIDGE, CA 91324
Site 3 of 4 in cluster A

LUST **S103991316**
HIST CORTESE **N/A**

Relative:
Higher

LUST:

Actual:
776 ft.

Region: STATE
Global Id: T0603702162
Latitude: 34.22028
Longitude: -118.545207
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/12/1996
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: YR
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 913240589
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id: T0603702162
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: T0603702162
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: T0603702162
Status: Completed - Case Closed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

THRIFTY #0069 (Continued)

S103991316

Status Date: 12/12/1996

Global Id: T0603702162
Status: Open - Case Begin Date
Status Date: 08/14/1987

Global Id: T0603702162
Status: Open - Remediation
Status Date: 08/28/1995

Global Id: T0603702162
Status: Open - Site Assessment
Status Date: 09/10/1987

Regulatory Activities:

Global Id: T0603702162
Action Type: Other
Date: 08/14/1987
Action: Leak Discovery

Global Id: T0603702162
Action Type: Other
Date: 09/10/1987
Action: Leak Reported

Global Id: T0603702162
Action Type: Other
Date: 08/14/1987
Action: Leak Stopped

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913240589

A7
NNE
< 1/8
0.069 mi.
366 ft.

ARCO STN 069
18904 ROSCOE BLVD
NORTHRIDGE, CA 91324

HIST UST **U001567350**
N/A

Site 4 of 4 in cluster A

Relative:
Higher

HIST UST:
File Number: 00028CEC
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00028CEC.pdf>
Region: STATE
Facility ID: 00000005584
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 2139239876
Owner Name: THRIFTY OIL CO.
Owner Address: 10000 LAKEWOOD BLVD.
Owner City,St,Zip: DOWNEY, CA 90240
Total Tanks: 0004

Actual:
776 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARCO STN 069 (Continued)

U001567350

Tank Num: 001
Container Num: 069-1
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 069-2
Year Installed: 1974
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 069-5
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 069-6
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

[Click here for Geo Tracker PDF:](#)

8
West
< 1/8
0.075 mi.
396 ft.

19130 LANARK ST
RESEDA, CA 91335

EDR Hist Cleaner 1015009945
N/A

Relative:
Higher

EDR Historical Cleaners:

Name: AMERICAN CARPET CLEANING
Year: 2009
Address: 19130 LANARK ST

Name: AMERICAN CARPET CLEANING
Year: 2011
Address: 19130 LANARK ST

Name: AMERICAN CARPET CLEANING
Year: 2012
Address: 19130 LANARK ST

Actual:
773 ft.

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

B9
ESE
1/8-1/4
0.216 mi.
1143 ft.

BLYTHE STREET ELEMENTARY SCHOOL
18730 BLYTHE ST
RESEDA, CA 91335

RCRA-LQG **1011488213**
CAR000193698

Site 1 of 2 in cluster B

Relative:
Lower

RCRA-LQG:

Date form received by agency: 07/10/2008

Facility name: BLYTHE STREET ELEMENTARY SCHOOL

Facility address: 18730 BLYTHE ST
RESEDA, CA 91335

EPA ID: CAR000193698

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 DIST

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: BLYTHE STREET ELEMENTARY SCHOOL

Owner/operator address: Not reported
Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: District

Owner/Operator Type: Operator

Owner/Op start date: 11/14/1989

Owner/Op end date: Not reported

Handler Activities Summary:

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

BLYTHE STREET ELEMENTARY SCHOOL (Continued)

1011488213

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

B10
ESE
 1/8-1/4
 0.216 mi.
 1143 ft.

VALLEY REGION BLYTHE ELEMENTARY SCHOOL
18730 BLYTHE STREET
RESEDA, CA 91335

ENVIROSTOR S105722311
SCH N/A

Site 2 of 2 in cluster B

Relative:
Lower

ENVIROSTOR:

Facility ID: 60000778
 Status: Certified
 Status Date: 02/24/2009
 Site Code: 304582
 Site Type: School Cleanup
 Site Type Detailed: School
 Acres: 1.6
 NPL: NO
 Regulatory Agencies: SMBRP
 Lead Agency: SMBRP
 Program Manager: Ivy Osornio
 Supervisor: Shahir Haddad
 Division Branch: Southern California Schools & Brownfields Outreach
 Assembly: 45
 Senate: 27
 Special Program: Not reported
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED
 Funding: School District
 Latitude: 34.21382
 Longitude: -118.5414
 APN: 21030-20-900, 2103020900
 Past Use: AGRICULTURAL - ROW CROPS, SCHOOL - ELEMENTARY
 Potential COC: Arsenic Chlordane DDD DDE DDT Endrin Toxaphene Aldrin Dieldrin
 Endosulfan Heptachlor Heptachlor epoxide HCH (alpha HCH (beta HCH
 (gamma) Lindane HCH-technical Mirex

Actual:
759 ft.

Confirmed COC: Arsenic 30004-NO 30207-NO 30309-NO 30313-NO 30314-NO 30315-NO
 30316-NO 30400-NO 30023-NO 30261-NO 30043-NO 30308-NO 30006-NO
 30007-NO 30008-NO 30010-NO
 Potential Description: SOIL
 Alias Name: Valley Region Blythe ES Addition

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALLEY REGION BLYTHE ELEMENTARY SCHOOL (Continued)

S105722311

Alias Type: Alternate Name
Alias Name: 21030-20-900
Alias Type: APN
Alias Name: 2103020900
Alias Type: APN
Alias Name: 304582
Alias Type: Project Code (Site Code)
Alias Name: 60000778
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 10/16/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/24/2009
Comments: DTSC certified that the response action according to the DTSC-approved RAW is complete

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/23/2009
Comments: DTSC prepared a project close out cost recovery unit memorandum

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 09/09/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/02/2008
Comments: Accepted for background purposes. A scoping document will be submitted
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/20/2008
Comments: DTSC conditionally approved the scoping document

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/21/2008
Comments: DTSC approved the PEA with a Further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALLEY REGION BLYTHE ELEMENTARY SCHOOL (Continued)

S105722311

Completed Date: 10/16/2008
Comments: DTSC approved the RAW for implementation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/02/2008
Comments: DTSC approved the fact sheet

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 08/25/2008
Comments: The SSI results were submitted as an appendix in the RAW

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/25/2008
Comments: LAUSD submitted a supplemental environmental investigation report for the areas suspected to have arsenic contamination in the existing school

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 09/09/2008
Comments: DTSC signed Form 4.15 in response to District's request

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/13/2009
Comments: DTSC approved the Removal Action Completion Report with a No further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/17/2009
Comments: DTSC prepared an Explanation of Significant Difference for the Removal Action conducted. The volume of soil excavated changed from 540 cubic yards (CY) to 1,036 CY

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/03/2008
Comments: DTSC approved the public notice

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALLEY REGION BLYTHE ELEMENTARY SCHOOL (Continued)

S105722311

Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 60000778
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 1.6
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Ivy Osornio
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 304582
Assembly: 45
Senate: 27
Special Program Status: Not reported
Status: Certified
Status Date: 02/24/2009
Restricted Use: NO
Funding: School District
Latitude: 34.21382
Longitude: -118.5414
APN: 21030-20-900, 2103020900
Past Use: AGRICULTURAL - ROW CROPS, SCHOOL - ELEMENTARY
Potential COC: Arsenic, Chlordane, DDD, DDE, DDT, Endrin, Toxaphene, Aldrin, Dieldrin, Endosulfan, Heptachlor, Heptachlor epoxide, HCH (alpha, HCH (beta, HCH (gamma) Lindane, HCH-technical, Mirex
Confirmed COC: Arsenic, 30004-NO, 30207-NO, 30309-NO, 30313-NO, 30314-NO, 30315-NO, 30316-NO, 30400-NO, 30023-NO, 30261-NO, 30043-NO, 30308-NO, 30006-NO, 30007-NO, 30008-NO, 30010-NO
Potential Description: SOIL
Alias Name: Valley Region Blythe ES Addition
Alias Type: Alternate Name
Alias Name: 21030-20-900
Alias Type: APN
Alias Name: 2103020900
Alias Type: APN
Alias Name: 304582
Alias Type: Project Code (Site Code)
Alias Name: 60000778
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 10/16/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALLEY REGION BLYTHE ELEMENTARY SCHOOL (Continued)

S105722311

Completed Date: 02/24/2009
Comments: DTSC certified that the response action according to the DTSC-approved RAW is complete

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/23/2009
Comments: DTSC prepared a project close out cost recovery unit memorandum

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 09/09/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/02/2008
Comments: Accepted for background purposes. A scoping document will be submitted
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 03/20/2008
Comments: DTSC conditionally approved the scoping document

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/21/2008
Comments: DTSC approved the PEA with a Further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 10/16/2008
Comments: DTSC approved the RAW for implementation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 09/02/2008
Comments: DTSC approved the fact sheet

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 08/25/2008
Comments: The SSI results were submitted as an appendix in the RAW

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/25/2008

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VALLEY REGION BLYTHE ELEMENTARY SCHOOL (Continued)

S105722311

Comments: LAUSD submitted a supplemental environmental investigation report for the areas suspected to have arsenic contamination in the existing school

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.15 Request
Completed Date: 09/09/2008
Comments: DTSC signed Form 4.15 in response to District's request

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/13/2009
Comments: DTSC approved the Removal Action Completion Report with a No further Action determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/17/2009
Comments: DTSC prepared an Explanation of Significant Difference for the Removal Action conducted. The volume of soil excavated changed from 540 cubic yards (CY) to 1,036 CY

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 09/03/2008
Comments: DTSC approved the public notice

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

11
WNW
1/4-1/2
0.260 mi.
1372 ft.

ANDREW CLEANERS
8235 TAMPA AVE
RESEDA, CA 91335

RCRA-SQG 1000356907
SLIC CAD981985237
BROWNFIELDS
FINDS
DRYCLEANERS
EMI
ECHO

Relative:
Higher

RCRA-SQG:
Date form received by agency: 07/15/1993
Facility name: ANDREW CLEANERS
Facility address: 8235 TAMPA AVE
RESEDA, CA 91335
EPA ID: CAD981985237
Contact: YOUNG RIU
Contact address: 8235 TAMPA AVE
RESEDA, CA 91335

Actual:
781 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANDREW CLEANERS (Continued)

1000356907

Contact country: US
Contact telephone: (818) 993-3285
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: YOUNG K RIU
Owner/operator address: 8235 TAMPA AVE
RESEDA, CA 91335

Owner/operator country: Not reported
Owner/operator telephone: (818) 993-3285
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

SLIC:

Region: STATE
Facility Status: Completed - Case Closed
Status Date: 05/14/2014
Global Id: SL0603740449
Lead Agency: LOS ANGELES RWQCB (REGION 4)

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ANDREW CLEANERS (Continued)

1000356907

Lead Agency Case Number: Not reported
 Latitude: 34.220155
 Longitude: -118.553926
 Case Type: Cleanup Program Site
 Case Worker: TA
 Local Agency: Not reported
 RB Case Number: 1231
 File Location: Regional Board
 Potential Media Affected: Aquifer used for drinking water supply
 Potential Contaminants of Concern: Benzene, * TETRACHLOROETHYLENE
 Site History: The Site is a dry cleaner located in a shopping center on the southwest corner of Tampa Avenue and Roscoe Boulevard. The shopping center is improved with five additional retail stores and a parking area. The dry cleaner store is located on the southern portion of the shopping center. A residential area comprising of single family units is located immediately to the south of the Site (Figure 1). Currently, active dry cleaning is ongoing at the Site. The Site was previously occupied by a Texaco service station. The service station was, reportedly, built in 1955 and operated for 20 to 25 years. It was demolished in the late 1970s and replaced with the current shopping center around 1985. Dry cleaning activities started at the Site in 1986. The Site is located within the San Fernando Valley Groundwater Basin of the Los Angeles River Watershed and has a surface elevation of 780 feet above mean sea level (amsl). Sediments underlying the site consist of basin fill deposits primarily derived from the Santa Monica Mountains. Based on the boring logs from the Site, the lithology consists of silt, sand, and clay to 40 feet below ground surface (bgs). During the groundwater sampling event, depths to groundwater ranged from 10-12 feet (bgs). The direction of groundwater flow at the Site is toward southeast. In 2005, Glenfos conducted the first environmental study at the Site by installing 10 soil gas probes at the property. Tetrachloroethylene (PCE) concentrations in soil-gas ranged from 9.6 to greater than 10,000 micrograms per liter ("g/L). TCE concentration in soil-gas ranged from non-detect (ND) to 56.1 "g/L. Benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds were also detected. Maximum benzene concentration in soil gas was 2,895 "g/L while maximum toluene concentration was 1,287 "g/L. A follow up study was performed by Rincon Consultants in May 2007. Four groundwater monitoring wells (MW-1 through MW-4) were installed as a part of this study. Soil and groundwater samples were collected and analyzed for total petroleum hydrocarbons as gasoline (TPH-g) and volatile organic compounds (VOCs). High concentrations of TPH-g were detected in the soil samples with a maximum of 204,000 micrograms per kilogram ("g/kg). PCE was detected at the soil samples at 16 "g/kg and 24 "g/kg. 1,2-dichloroethylene (DCE) was also detected at a maximum concentration of 100 "g/kg. No TPH-g was detected in the groundwater samples; however, relatively low concentrations of PCE and trichloroethylene (TCE) were detected in the groundwater samples at a maximum concentration of 28.8 "g/L for PCE in MW-4. In addition, 1,2-DCE was detected at a concentration of 301 "g/L in MW-2 groundwater sample.

Click here to access the California GeoTracker records for this facility:

BROWNFIELDS:

Global ID: SL0603740449

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANDREW CLEANERS (Continued)

1000356907

FINDS:

Registry ID: 110002765188

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.

DRYCLEANERS:

EPA Id: CAL000268279
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 03/26/2003
Facility Active: No
Inactive Date: Not reported
Facility Addr2: Not reported
Owner Name: RAY HANNA, OWNER
Owner Address: 8235 TAMPA AVE
Owner Address 2: Not reported
Owner Telephone: 8187000029
Contact Name: RAY HANNA, OWNER
Contact Address: 8235 TAMPA AVE
Contact Address 2: Not reported
Contact Telephone: 8187000029
Mailing Name: RAY HANNA, OWNER
Mailing Address 1: 8235 TAMPA AVE
Mailing Address 2: Not reported
Mailing City: RESEDA
Mailing State: CA
Mailing Zip: 913351133
Owner Fax: 3
Region Code: Not reported

EPA Id: CAL000321737
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 07/03/2007
Facility Active: No
Inactive Date: Not reported
Facility Addr2: Not reported
Owner Name: OGANES ZMBOYAN
Owner Address: 8520 VANALDEN AVE
Owner Address 2: Not reported
Owner Telephone: 8183410758
Contact Name: OGANES ZMBOYAN
Contact Address: 8235 TAMPA AVE
Contact Address 2: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANDREW CLEANERS (Continued)

1000356907

Contact Telephone: 8187000029
Mailing Name: Not reported
Mailing Address 1: 8235 TAMPA AVE
Mailing Address 2: Not reported
Mailing City: RESEDA
Mailing State: CA
Mailing Zip: 913350000
Owner Fax: 3
Region Code: 0000000000

EPA Id: CAL000399878
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 08/21/2014
Facility Active: No
Inactive Date: Not reported
Facility Addr2: Not reported
Owner Name: LEX-RY HOLDING INC
Owner Address: 8235 TAMPA AVE
Owner Address 2: Not reported
Owner Telephone: 8187000029
Contact Name: MICHAEL BENO
Contact Address: 8235 TAMPA AVE
Contact Address 2: Not reported
Contact Telephone: 8187000029
Mailing Name: Not reported
Mailing Address 1: 8235 TAMPA AVE
Mailing Address 2: Not reported
Mailing City: RESEDA
Mailing State: CA
Mailing Zip: 91335
Owner Fax: 3
Region Code: Not reported

EPA Id: CAD981985237
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 07/03/1987
Facility Active: No
Inactive Date: Not reported
Facility Addr2: Not reported
Owner Name: NAZARET ARPAJIAN
Owner Address: 8235 TAMPA AVE
Owner Address 2: Not reported
Owner Telephone: 8189933285
Contact Name: NAZARET ARPAJIAN
Contact Address: 8235 TAMPA AVE
Contact Address 2: Not reported
Contact Telephone: 8187000029
Mailing Name: NAZARET ARPAJIAN
Mailing Address 1: 8235 TAMPA AVE
Mailing Address 2: Not reported
Mailing City: RESEDA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANDREW CLEANERS (Continued)

1000356907

Mailing State: CA
Mailing Zip: 913351133
Owner Fax: 3
Region Code: Not reported

EMI:

Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 76778
Air District Name: SC
SIC Code: 7216
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smlr Tons/Yr: 0

ECHO:

Envid: 1000356907
Registry ID: 110002765188
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002765188

12
SSW
1/4-1/2
0.485 mi.
2560 ft.

**PRECISION AUTO
7654 TAMPA
RESEDA, CA 91335**

**LUST S100942689
EMI N/A
HIST CORTESE**

**Relative:
Lower**

LUST:

Region: STATE
Global Id: T0603702217
Latitude: 34.2099
Longitude: -118.552919
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 03/31/1994
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: YR
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 913350434
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

**Actual:
762 ft.**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id: T0603702217
Contact Type: Regional Board Caseworker

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PRECISION AUTO (Continued)

S100942689

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: T0603702217
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: T0603702217
Status: Completed - Case Closed
Status Date: 03/31/1994

Global Id: T0603702217
Status: Open - Case Begin Date
Status Date: 07/05/1985

Global Id: T0603702217
Status: Open - Site Assessment
Status Date: 06/16/1988

Regulatory Activities:

Global Id: T0603702217
Action Type: Other
Date: 07/05/1985
Action: Leak Reported

LUST REG 4:

Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913350434
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Excavate and Dispose
Global ID: T0603702217
W Global ID: Not reported
Staff: UNK
Local Agency: 19050
Cross Street: KESWICK
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 7/5/1985
Date Leak Record Entered: 12/31/1986

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PRECISION AUTO (Continued)

S100942689

Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 6/16/1990
Date the Case was Closed: 3/31/1994
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 823.9340381383776190574466394
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 6/16/1988
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Yes
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: BLANK RP
RP Address: C
Program: LUST
Lat/Long: 34.2093513 / -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: *SEMIANNUAL GROUNDWATER MONITORING FOR ONE YEAR

EMI:

Year: 1990
County Code: 19
Air Basin: SC
Facility ID: 55916
Air District Name: SC
SIC Code: 7532
Air District Name: SOUTH COAST AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 7
Reactive Organic Gases Tons/Yr: 7
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

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

PRECISION AUTO (Continued)

S100942689

Year: 1995
 County Code: 19
 Air Basin: SC
 Facility ID: 55916
 Air District Name: SC
 SIC Code: 7532
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 6
 Reactive Organic Gases Tons/Yr: 5
 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 Smlr Tons/Yr:0

Year: 1996
 County Code: 19
 Air Basin: SC
 Facility ID: 55916
 Air District Name: SC
 SIC Code: 7532
 Air District Name: SOUTH COAST AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 2
 Reactive Organic Gases Tons/Yr: 2
 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 Smlr Tons/Yr:0

HIST CORTESE:

Region: CORTESE
 Facility County Code: 19
 Reg By: LTNKA
 Reg Id: 913350434

13
 North
 1/2-1
 0.550 mi.
 2902 ft.

JMP PLATING, INC.
19019 PARTHENIA STREET, #107-110
NORTHRIDGE, CA 91324

ENVIROSTOR S110493958
N/A

Relative:
Higher

ENVIROSTOR:
 Facility ID: 71003671
 Status: Inactive - Needs Evaluation
 Status Date: 11/30/2010
 Site Code: 301058
 Site Type: Tiered Permit
 Site Type Detailed: Tiered Permit
 Acres: 1
 NPL: NO
 Regulatory Agencies: NONE SPECIFIED
 Lead Agency: NONE SPECIFIED

Actual:
797 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JMP PLATING, INC. (Continued)

S110493958

Program Manager: Not reported
Supervisor: Robert Senga
Division Branch: Cleanup Chatsworth
Assembly: 40
Senate: Not reported
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 0
Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAR000036855
Alias Type: EPA Identification Number
Alias Name: 110009553250
Alias Type: EPA (FRS #)
Alias Name: 301058
Alias Type: Project Code (Site Code)
Alias Name: 71003671
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 12/20/2010
Comments: Final collection letter sent certified mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase I Verification
Completed Date: 04/17/2001
Comments: Inspection report sent on 4/17/2001

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 11/18/2010
Comments: Second Collection request sent certified mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 10/02/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 10/19/2010
Comments: First collection letter sent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JMP PLATING, INC. (Continued)

S110493958

Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/17/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 10/02/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 04/30/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 04/17/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/25/2013
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

14
NNE
1/2-1
0.664 mi.
3504 ft.

CIRCUIT SERVICES
18640 PARTHENIA STREET #5
NORTHRIDGE, CA 91324

ENVIROSTOR S110493736
N/A

Relative:
Higher

ENVIROSTOR:
Facility ID: 71002784
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth

Actual:
804 ft.

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CIRCUIT SERVICES (Continued)

S110493736

Assembly: Not reported
 Senate: Not reported
 Special Program: Not reported
 Restricted Use: NO
 Site Mgmt Req: NONE SPECIFIED
 Funding: Not reported
 Latitude: 0
 Longitude: 0
 APN: NONE SPECIFIED
 Past Use: NONE SPECIFIED
 Potential COC: NONE SPECIFIED
 Confirmed COC: NONE SPECIFIED
 Potential Description: NONE SPECIFIED
 Alias Name: CAD981387939
 Alias Type: EPA Identification Number
 Alias Name: 71002784
 Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported
 Completed Sub Area Name: Not reported
 Completed Document Type: Not reported
 Completed Date: Not reported
 Comments: Not reported

Future Area Name: Not reported
 Future Sub Area Name: Not reported
 Future Document Type: Not reported
 Future Due Date: Not reported
 Schedule Area Name: Not reported
 Schedule Sub Area Name: Not reported
 Schedule Document Type: Not reported
 Schedule Due Date: Not reported
 Schedule Revised Date: Not reported

15
 NNW
 1/2-1
 0.750 mi.
 3959 ft.

PRICE CLUB #437
8810 TAMPA AVENUE
NORTHRIDGE, CA 91324

ENVIROSTOR S103675023
LUST N/A
HIST CORTESE

Relative:
Higher

ENVIROSTOR:
 Facility ID: 71003266
 Status: Refer: Other Agency
 Status Date: Not reported
 Site Code: Not reported
 Site Type: Tiered Permit
 Site Type Detailed: Tiered Permit
 Acres: Not reported
 NPL: NO
 Regulatory Agencies: NONE SPECIFIED
 Lead Agency: NONE SPECIFIED
 Program Manager: Not reported
 Supervisor: Not reported
 Division Branch: Cleanup Chatsworth
 Assembly: 45
 Senate: 27
 Special Program: Not reported

Actual:
809 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PRICE CLUB #437 (Continued)

S103675023

Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.23076
Longitude: -118.5510
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAL000060252
Alias Type: EPA Identification Number
Alias Name: 71003266
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LUST:

Region: STATE
Global Id: T0603702160
Latitude: 34.230807
Longitude: -118.55135
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/30/1996
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: YR
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 913240425
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Contact:

Global Id: T0603702160
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PRICE CLUB #437 (Continued)

S103675023

City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Global Id: T0603702160
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: T0603702160
Status: Completed - Case Closed
Status Date: 07/30/1996

Global Id: T0603702160
Status: Open - Case Begin Date
Status Date: 02/09/1989

Global Id: T0603702160
Status: Open - Site Assessment
Status Date: 05/01/1995

Global Id: T0603702160
Status: Open - Verification Monitoring
Status Date: 09/25/1995

Regulatory Activities:

Global Id: T0603702160
Action Type: Other
Date: 02/09/1989
Action: Leak Discovery

Global Id: T0603702160
Action Type: Other
Date: 06/09/1993
Action: Leak Reported

Region: STATE
Global Id: T0603702175
Latitude: 34.2299147
Longitude: -118.5537397
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 07/30/1996
Lead Agency: LOS ANGELES, CITY OF
Case Worker: EL
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 913240752
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Other Groundwater (uses other than drinking water)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PRICE CLUB #437 (Continued)

S103675023

Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

Contact:

Global Id: T0603702175
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: T0603702175
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: T0603702175
Status: Completed - Case Closed
Status Date: 07/30/1996

Global Id: T0603702175
Status: Open - Case Begin Date
Status Date: 05/09/1989

Global Id: T0603702175
Status: Open - Site Assessment
Status Date: 06/09/1993

Regulatory Activities:

Global Id: T0603702175
Action Type: Other
Date: 05/09/1989
Action: Leak Discovery

Global Id: T0603702175
Action Type: Other
Date: 06/09/1993
Action: Leak Reported

HIST CORTESE:

Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913240425

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

16
NE
1/2-1
0.935 mi.
4937 ft.

COST REDUCTIONS
18351 EDDY STREET #A
LOS ANGELES, CA 91325

ENVIROSTOR S110493756
N/A

Relative:
Higher

ENVIROSTOR:

Actual:
806 ft.

Facility ID: 71003221
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: Not reported
Senate: Not reported
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 0
Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAL000028443
Alias Type: EPA Identification Number
Alias Name: 71003221
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Count: 2 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CANOGA PARK RESEDA	S107737524 1003879493	VALLEY REGION ELEMENTARY SCHOOL #1 LOEHMANN'S PLAZA	VALERIO STREET/LUBAO AVENUE VICTORY & TAMPA BLVDS.	91306 91335	ENVIROSTOR, SCH, DEED SEMS-ARCHIVE

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	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

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	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	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	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 04/18/2016
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/13/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2016	Telephone: 703-603-8704
Date Made Active in Reports: 05/20/2016	Last EDR Contact: 04/08/2016
Number of Days to Update: 135	Next Scheduled EDR Contact: 07/18/2016
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 04/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 08/01/2016
	Data Release Frequency: Quarterly

Federal 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	Source: EPA
Date Data Arrived at EDR: 03/02/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	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	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 05/16/2016
Number of Days to Update: 13	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 05/25/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 09/12/2016
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 05/25/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 09/12/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 identifies 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 inventory of solid waste disposal facilities or landfills. These may be active or inactive 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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003

Date Data Arrived at EDR: 09/10/2003

Date Made Active in Reports: 10/07/2003

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)

Telephone: 530-542-5572

Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011

Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008

Date Data Arrived at EDR: 07/22/2008

Date Made Active in Reports: 07/31/2008

Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-4834

Last EDR Contact: 07/01/2011

Next Scheduled EDR Contact: 10/17/2011

Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004

Date Data Arrived at EDR: 09/07/2004

Date Made Active in Reports: 10/12/2004

Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)

Telephone: 213-576-6710

Last EDR Contact: 09/06/2011

Next Scheduled EDR Contact: 12/19/2011

Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003

Date Data Arrived at EDR: 05/19/2003

Date Made Active in Reports: 06/02/2003

Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)

Telephone: 805-542-4786

Last EDR Contact: 07/18/2011

Next Scheduled EDR Contact: 10/31/2011

Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004

Date Data Arrived at EDR: 10/20/2004

Date Made Active in Reports: 11/19/2004

Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)

Telephone: 510-622-2433

Last EDR Contact: 09/19/2011

Next Scheduled EDR Contact: 01/02/2012

Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 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: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

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 R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-8677
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Semi-Annually

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015	Source: EPA Region 7
Date Data Arrived at EDR: 02/12/2016	Telephone: 913-551-7003
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 112	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/19/2016	Telephone: 214-665-6597
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 105	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	Source: EPA Region 8
Date Data Arrived at EDR: 10/23/2015	Telephone: 303-312-6271
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 118	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: 02/25/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3372
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 04/27/2016	Telephone: 312-886-7439
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/14/2016	Source: SWRCB
Date Data Arrived at EDR: 03/16/2016	Telephone: 916-341-5851
Date Made Active in Reports: 05/04/2016	Last EDR Contact: 06/14/2016
Number of Days to Update: 49	Next Scheduled EDR Contact: 09/26/2016
	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	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2009	Telephone: 916-327-5092
Date Made Active in Reports: 10/01/2009	Last EDR Contact: 03/11/2016
Number of Days to Update: 21	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015	Source: EPA Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-6136
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 52	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: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-9424
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 67	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: 12/03/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/04/2016	Telephone: 214-665-7591
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 120	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 04/29/2016
Number of Days to Update: 65	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Varies

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: 01/26/2016	Source: EPA Region 8
Date Data Arrived at EDR: 02/05/2016	Telephone: 303-312-6137
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 119	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

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	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 41	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: 02/25/2016	Source: EPA Region 9
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3368
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 08/08/2016
	Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/01/2016
Number of Days to Update: 142	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 02/01/2016	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/03/2016	Telephone: 916-323-3400
Date Made Active in Reports: 03/22/2016	Last EDR Contact: 05/04/2016
Number of Days to Update: 48	Next Scheduled EDR Contact: 08/15/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfields 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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/07/2016	Telephone: 916-323-7905
Date Made Active in Reports: 05/04/2016	Last EDR Contact: 06/02/2016
Number of Days to Update: 58	Next Scheduled EDR Contact: 09/19/2016
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/23/2015	Telephone: 202-566-2777
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 03/22/2016
Number of Days to Update: 57	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 05/06/2016
Number of Days to Update: 30	Next Scheduled EDR Contact: 08/22/2016
	Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 04/07/2016
Date Data Arrived at EDR: 04/12/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 50

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: 02/18/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 88

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/18/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 88

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2016
Next Scheduled EDR Contact: 09/12/2016
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/01/2016
Next Scheduled EDR Contact: 09/12/2016
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: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: DTSC and SWRCB
Date Data Arrived at EDR: 03/08/2016	Telephone: 916-323-3400
Date Made Active in Reports: 05/04/2016	Last EDR Contact: 06/07/2016
Number of Days to Update: 57	Next Scheduled EDR Contact: 09/19/2016
	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	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 06/26/2015	Telephone: 202-366-4555
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 03/30/2016
Number of Days to Update: 68	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	Source: Office of Emergency Services
Date Data Arrived at EDR: 01/27/2016	Telephone: 916-845-8400
Date Made Active in Reports: 03/22/2016	Last EDR Contact: 04/27/2016
Number of Days to Update: 55	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	Source: State Water Quality Control Board
Date Data Arrived at EDR: 03/16/2016	Telephone: 866-480-1028
Date Made Active in Reports: 05/16/2016	Last EDR Contact: 06/14/2016
Number of Days to Update: 61	Next Scheduled EDR Contact: 09/26/2016
	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 03/16/2016	Telephone: 866-480-1028
Date Made Active in Reports: 05/16/2016	Last EDR Contact: 06/14/2016
Number of Days to Update: 61	Next Scheduled EDR Contact: 09/26/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/02/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	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	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 06/10/2016
Number of Days to Update: 97	Next Scheduled EDR Contact: 09/19/2016
	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	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/15/2016
Number of Days to Update: 62	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	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 04/15/2016
Number of Days to Update: 339	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/24/2016
Next Scheduled EDR Contact: 09/05/2016
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: 06/07/2016
Next Scheduled EDR Contact: 09/19/2016
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 05/12/2016
Number of Days to Update: 3	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	Source: EPA
Date Data Arrived at EDR: 10/15/2014	Telephone: 202-566-0500
Date Made Active in Reports: 11/17/2014	Last EDR Contact: 04/12/2016
Number of Days to Update: 33	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/06/2015	Telephone: 202-564-5088
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 04/08/2016
Number of Days to Update: 31	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	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/20/2016
Number of Days to Update: 25	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	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 05/20/2016
Number of Days to Update: 25	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	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/18/2016	Telephone: 301-415-7169
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 05/06/2016
Number of Days to Update: 28	Next Scheduled EDR Contact: 08/22/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 06/09/2016
Number of Days to Update: 76	Next Scheduled EDR Contact: 09/19/2016
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 06/10/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 09/19/2016
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 04/26/2016
Number of Days to Update: 83	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/09/2015	Telephone: 202-343-9775
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 04/08/2016
Number of Days to Update: 69	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Transportation, 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 Transportation, 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: 05/27/2016
Next Scheduled EDR Contact: 09/05/2016
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: 03/11/2016
Date Data Arrived at EDR: 03/15/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 80

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 1931 and 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: 06/02/2016
Next Scheduled EDR Contact: 09/12/2016
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/03/2016
Next Scheduled EDR Contact: 09/12/2016
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: 06/03/2016
Next Scheduled EDR Contact: 09/12/2016
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: 06/08/2016
Next Scheduled EDR Contact: 09/19/2016
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: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
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).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
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 Resources 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: 05/25/2016
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 [CALSTITES]. 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: 05/25/2016
Next Scheduled EDR Contact: 09/05/2016
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: 04/11/2016
Date Data Arrived at EDR: 04/12/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 50

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: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
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: 06/07/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/07/2016
Next Scheduled EDR Contact: 09/19/2016
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: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
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: 02/12/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 89

Source: Department 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/25/2016
Next Scheduled EDR Contact: 09/05/2016
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 04/12/2016
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 48

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 48

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/11/2016
Next Scheduled EDR Contact: 07/25/2016
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 03/21/2016
Date Data Arrived at EDR: 03/22/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 38

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
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:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/18/2016
Date Data Arrived at EDR: 04/20/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 42

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: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/05/2016
Date Data Arrived at EDR: 04/26/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 36

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: 04/07/2016
Date Data Arrived at EDR: 04/26/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 36

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: 06/02/2016
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: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

MONTEREY COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
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: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/01/2016	Source: Health Care Agency
Date Data Arrived at EDR: 05/11/2016	Telephone: 714-834-3446
Date Made Active in Reports: 06/01/2016	Last EDR Contact: 05/11/2016
Number of Days to Update: 21	Next Scheduled EDR Contact: 08/22/2016
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/07/2016	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 03/09/2016	Telephone: 530-745-2363
Date Made Active in Reports: 05/04/2016	Last EDR Contact: 06/02/2016
Number of Days to Update: 56	Next Scheduled EDR Contact: 09/19/2016
	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	Source: Department of Environmental Health
Date Data Arrived at EDR: 04/15/2016	Telephone: 951-358-5055
Date Made Active in Reports: 05/09/2016	Last EDR Contact: 03/21/2016
Number of Days to Update: 24	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: 04/13/2016	Source: Department of Environmental Health
Date Data Arrived at EDR: 04/15/2016	Telephone: 951-358-5055
Date Made Active in Reports: 06/01/2016	Last EDR Contact: 03/21/2016
Number of Days to Update: 47	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: 02/02/2016	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 04/06/2016	Telephone: 916-875-8406
Date Made Active in Reports: 06/01/2016	Last EDR Contact: 04/06/2016
Number of Days to Update: 56	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: 02/02/2016	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 04/06/2016	Telephone: 916-875-8406
Date Made Active in Reports: 06/01/2016	Last EDR Contact: 04/06/2016
Number of Days to Update: 56	Next Scheduled EDR Contact: 07/18/2016
	Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
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: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversight 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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010	Source: Department of Public Health
Date Data Arrived at EDR: 03/10/2011	Telephone: 415-252-3920
Date Made Active in Reports: 03/15/2011	Last EDR Contact: 05/06/2016
Number of Days to Update: 5	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	Source: Environmental Health Department
Date Data Arrived at EDR: 04/08/2016	Telephone: N/A
Date Made Active in Reports: 05/04/2016	Last EDR Contact: 04/04/2016
Number of Days to Update: 26	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	Source: San Luis Obispo County Public Health Department
Date Data Arrived at EDR: 02/24/2016	Telephone: 805-781-5596
Date Made Active in Reports: 04/01/2016	Last EDR Contact: 05/23/2016
Number of Days to Update: 37	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	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 10/15/2015	Telephone: 650-363-1921
Date Made Active in Reports: 11/16/2015	Last EDR Contact: 05/27/2016
Number of Days to Update: 32	Next Scheduled EDR Contact: 09/26/2016
	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	Source: San Mateo County Environmental Health Services Division
Date Data Arrived at EDR: 03/15/2016	Telephone: 650-363-1921
Date Made Active in Reports: 05/09/2016	Last EDR Contact: 06/08/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 09/26/2016
	Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
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:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/08/2016
Next Scheduled EDR Contact: 09/26/2016
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: 06/08/2016
Next Scheduled EDR Contact: 09/26/2016
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: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: Division 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:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 04/12/2016	Source: Yolo County Department of Health
Date Data Arrived at EDR: 04/19/2016	Telephone: 530-666-8646
Date Made Active in Reports: 06/01/2016	Last EDR Contact: 04/04/2016
Number of Days to Update: 43	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	Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 02/05/2016	Telephone: 530-749-7523
Date Made Active in Reports: 02/22/2016	Last EDR Contact: 04/29/2016
Number of Days to Update: 17	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	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/19/2013	Telephone: 860-424-3375
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 05/13/2016
Number of Days to Update: 45	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	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/17/2015	Telephone: N/A
Date Made Active in Reports: 08/12/2015	Last EDR Contact: 04/12/2016
Number of Days to Update: 26	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	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/03/2016	Telephone: 518-402-8651
Date Made Active in Reports: 03/22/2016	Last EDR Contact: 05/06/2016
Number of Days to Update: 48	Next Scheduled EDR Contact: 08/15/2016
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/06/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/13/2016
Next Scheduled EDR Contact: 09/26/2016
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

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

CLEVELAND CHARTER HIGH SCHOOL
8140 VANALDEN AVENUE
RESEDA, CA 91335

TARGET PROPERTY COORDINATES

Latitude (North):	34.217816 - 34° 13' 4.14"
Longitude (West):	118.547447 - 118° 32' 50.81"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	357452.8
UTM Y (Meters):	3787195.0
Elevation:	771 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630737 CANOGA PARK, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

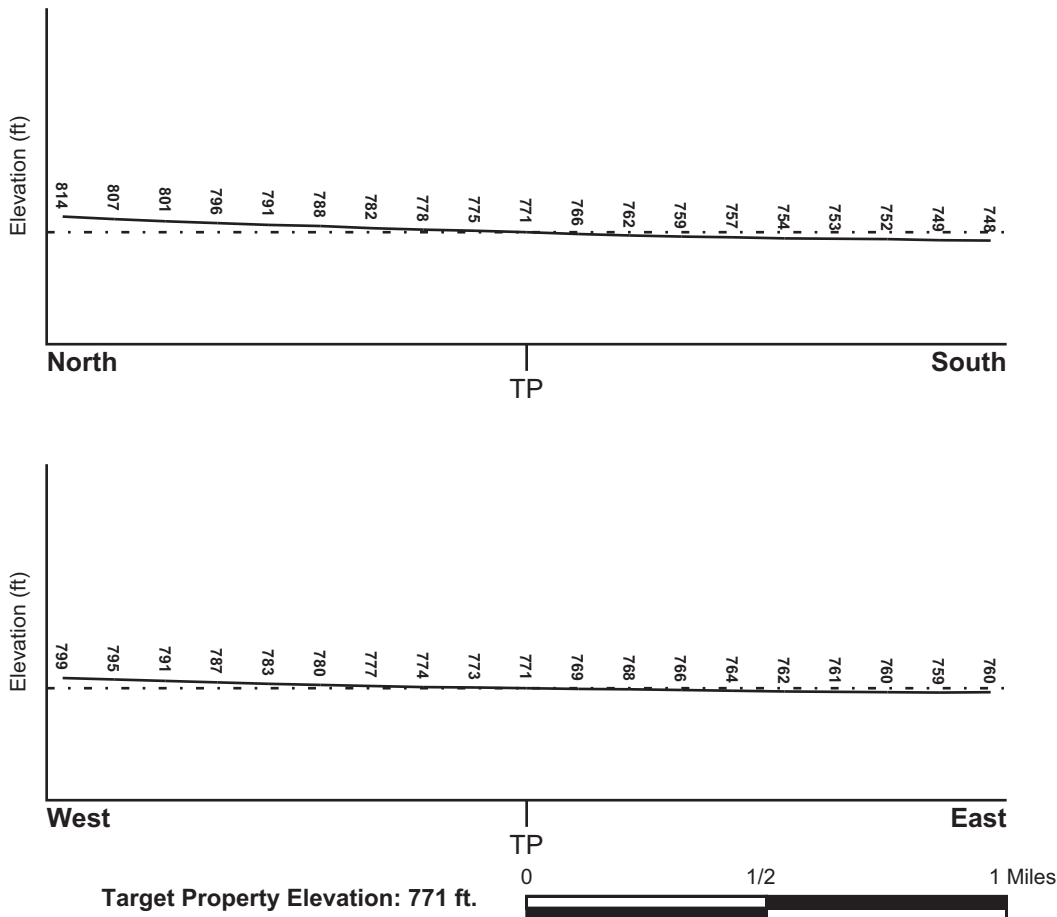
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

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

<u>Target Property County</u>	FEMA Flood <u>Electronic Data</u>
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

<u>NWI Quad at Target Property</u>	NWI Electronic <u>Data Coverage</u>
CANOGA PARK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

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

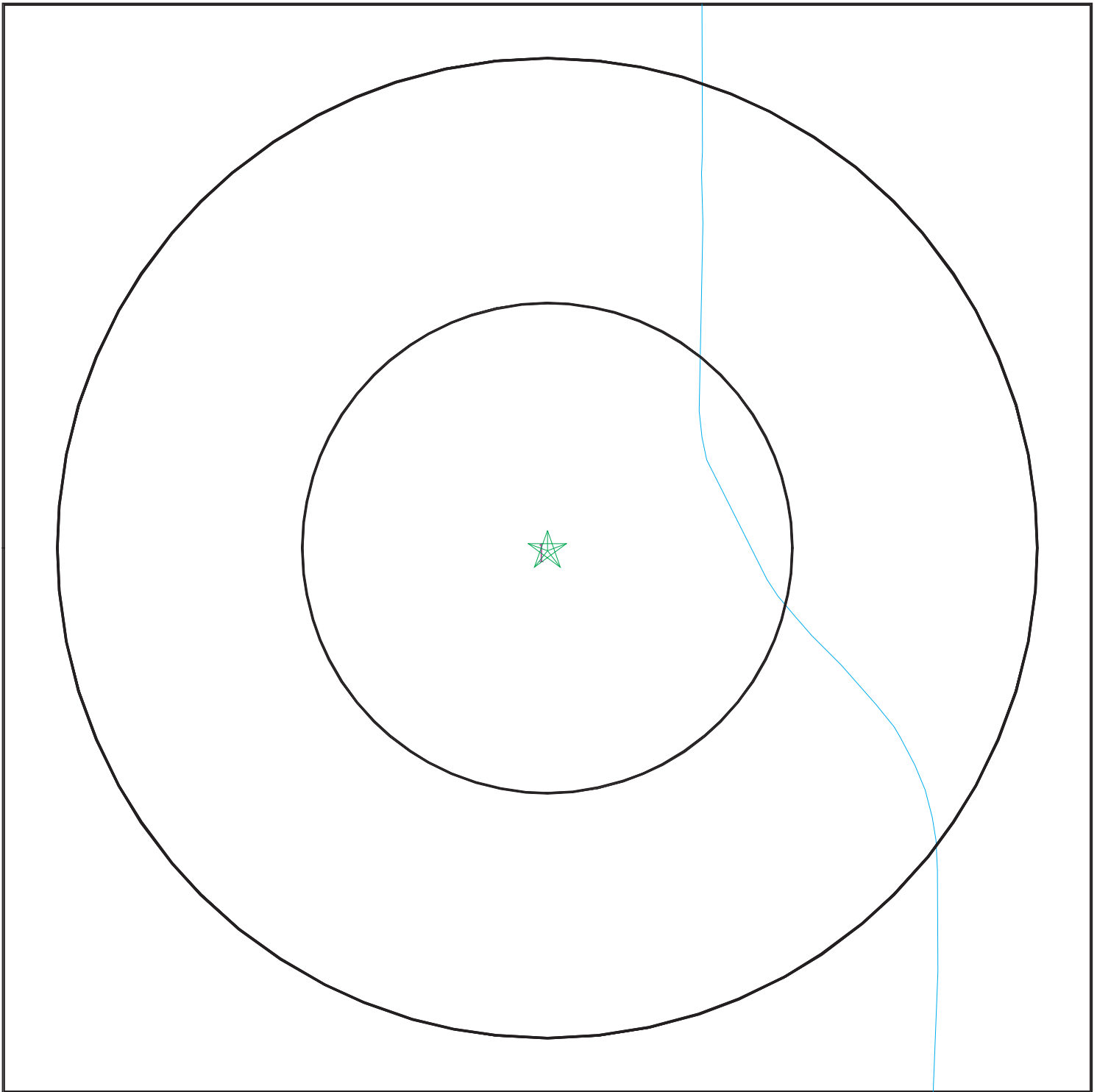
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

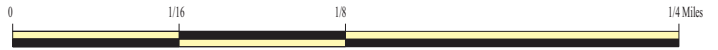
Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4648814.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Cleveland Charter High School
ADDRESS: 8140 Vanalden Avenue
Reseda CA 91335
LAT/LONG: 34.217816 / 118.547447

CLIENT: Ninyo & Moore
CONTACT: Patrick Cullip
INQUIRY #: 4648814.2s
DATE: June 15, 2016 8:15 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Mocho
 Soil Surface Texture: loam
 Hydrologic Group: Not reported
 Soil Drainage Class:
 Hydric Status: Partially hydric
 Corrosion Potential - Uncoated Steel: High
 Depth to Bedrock Min: > 0 inches
 Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	16 inches	75 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS40000142551	1/8 - 1/4 Mile NNE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

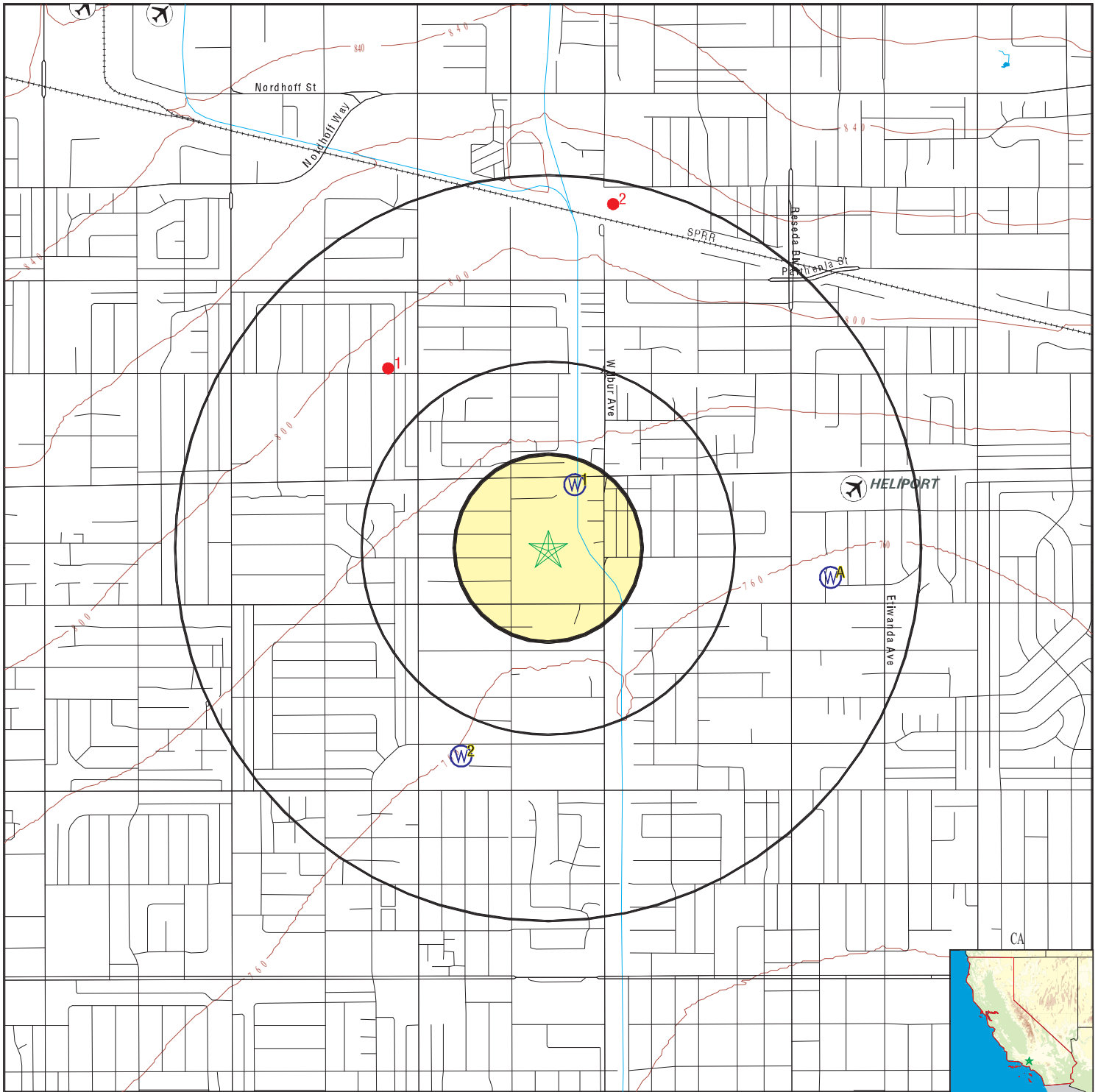
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	12318	1/2 - 1 Mile SSW
A3	2199	1/2 - 1 Mile East
A4	2198	1/2 - 1 Mile East

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

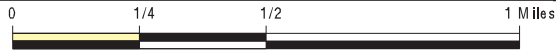
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	CAOG11000280648	1/2 - 1 Mile NW
2	CAOG11000280646	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 4648814.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Cleveland Charter High School
 ADDRESS: 8140 Vanalden Avenue
 Reseda CA 91335
 LAT/LONG: 34.217816 / 118.547447

CLIENT: Ninyo & Moore
 CONTACT: Patrick Cullip
 INQUIRY #: 4648814.2s
 DATE: June 15, 2016 8:15 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
NNE **FED USGS** **USGS40000142551**
1/8 - 1/4 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-341313118324301		
Monloc name:	002N016W27P002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070105	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	34.2202818
Longitude:	-118.546197	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	250
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

2
SSW **CA WELLS** **12318**
1/2 - 1 Mile
Lower

Water System Information:

Prime Station Code:	1500371-004	User ID:	CYA
FRDS Number:	1500371004	County:	Kern
District Number:	12	Station Type:	WELL/AMBNT
Water Type:	Well/Groundwater	Well Status:	Active Treated
Source Lat/Long:	341235.9 1183302.8	Precision:	100 Feet (one Second)
Source Name:	WELL 04 - CL2 TREATMENT		
System Number:	1500371		
System Name:	UNION PACIFIC RAILROAD COMPANY		
Organization That Operates System:	200 Marion Way Bloomington, CA 92316		
Pop Served:	175	Connections:	45
Area Served:	Not Reported		
Sample Collected:	03-MAY-13	Findings:	1.4 UG/L
Chemical:	DIBROMOCHLOROPROPANE (DBCP)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A3
East
1/2 - 1 Mile
Lower

CA WELLS 2199

Water System Information:

Prime Station Code:	02N/16W-34K02 S	User ID:	MET
FRDS Number:	1910067113	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	341300.0 1183200.0	Precision:	Undefined
Source Name:	RESEDA WELL 05 - INACTIVE		
System Number:	1910067		
System Name:	LOS ANGELES-CITY, DEPT. OF WATER & POWER		
Organization That Operates System:	P.O. BOX 51111, ROOM 1420		
	LOS ANGELES, CA 90051		
Pop Served:	3700000	Connections:	657422
Area Served:	LOS ANGELES		

A4
East
1/2 - 1 Mile
Lower

CA WELLS 2198

Water System Information:

Prime Station Code:	02N/16W-34G02 S	User ID:	MET
FRDS Number:	1910067116	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	341300.0 1183200.0	Precision:	Undefined
Source Name:	RESEDA WELL 09 - INACTIVE		
System Number:	1910067		
System Name:	LOS ANGELES-CITY, DEPT. OF WATER & POWER		
Organization That Operates System:	P.O. BOX 51111, ROOM 1420		
	LOS ANGELES, CA 90051		
Pop Served:	3700000	Connections:	657422
Area Served:	LOS ANGELES		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
NW
1/2 - 1 Mile

OIL_GAS CAOG11000280648

District nun:	2	Api number:	03705176
Blm well:	N	Redrill can:	No
Dryhole:	Y	Well status:	P
Operator name:	ARCO Oil & Gas Company		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	28
Township:	02N	Range:	16W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Mullholland	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000280648		

2
North
1/2 - 1 Mile

OIL_GAS CAOG11000280646

District nun:	2	Api number:	03705163
Blm well:	N	Redrill can:	No
Dryhole:	Y	Well status:	P
Operator name:	ARCO Oil & Gas Company		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	27
Township:	02N	Range:	16W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Northridge Core Hole	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000280646		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91335	138	24

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 E
AERIAL PHOTOGRAPHS



Cleveland Charter High School

8140 Vanalden Avenue

Reseda, CA 91335

Inquiry Number: 4648814.9

June 16, 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

06/16/16

Site Name:

Cleveland Charter High School
8140 Vanalden Avenue
Reseda, CA 91335
EDR Inquiry # 4648814.9

Client Name:

Ninyo & Moore
475 Goddard
Irvine, CA 92618
Contact: Patrick Cullip



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:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June, 10 2002	USDA
1995	1"=500'	Acquisition Date: October, 03 1995	USGS/DOQQ
1989	1"=500'	Flight Date: August, 22 1989	USDA
1983	1"=500'	Flight Date: November, 19 1983	EDR Proprietary Brewster Pacific
1981	1"=500'	Flight Date: February, 21 1981	EDR Proprietary Brewster Pacific
1979	1"=500'	Flight Date: February, 05 1979	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: April, 25 1977	EDR Proprietary Brewster Pacific
1967	1"=500'	Flight Date: August, 13 1967	USGS
1964	1"=500'	Flight Date: July, 28 1964	USGS
1952	1"=500'	Flight Date: July, 09 1952	USGS
1947	1"=500'	Flight Date: August, 15 1947	USGS
1938	1"=500'	Flight Date: May, 13 1938	USDA
1928	1"=500'	Flight Date: January, 01 1928	FAIR

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INQUIRY #: 4648814.9

YEAR: 2012

— = 500'





INQUIRY #: 4648814.9

YEAR: 2010

— = 500'





INQUIRY #: 4648814.9

YEAR: 2009

— = 500'





INQUIRY #: 4648814.9

YEAR: 2005

— = 500'





INQUIRY #: 4648814.9

YEAR: 2002

— = 500'





INQUIRY #: 4648814.9

YEAR: 1995

— = 500'



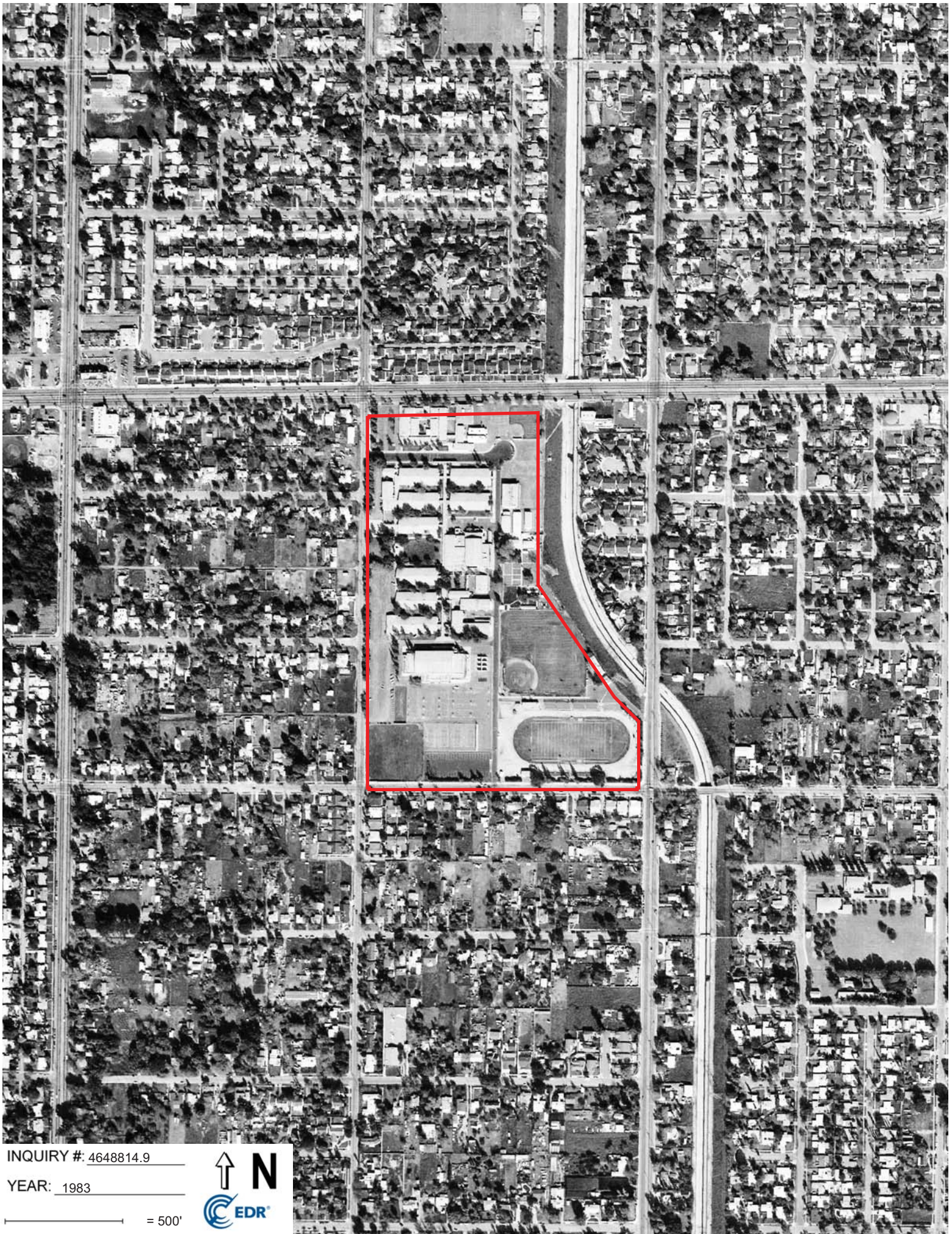


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YEAR: 1989

— = 500'





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YEAR: 1983

— = 500'



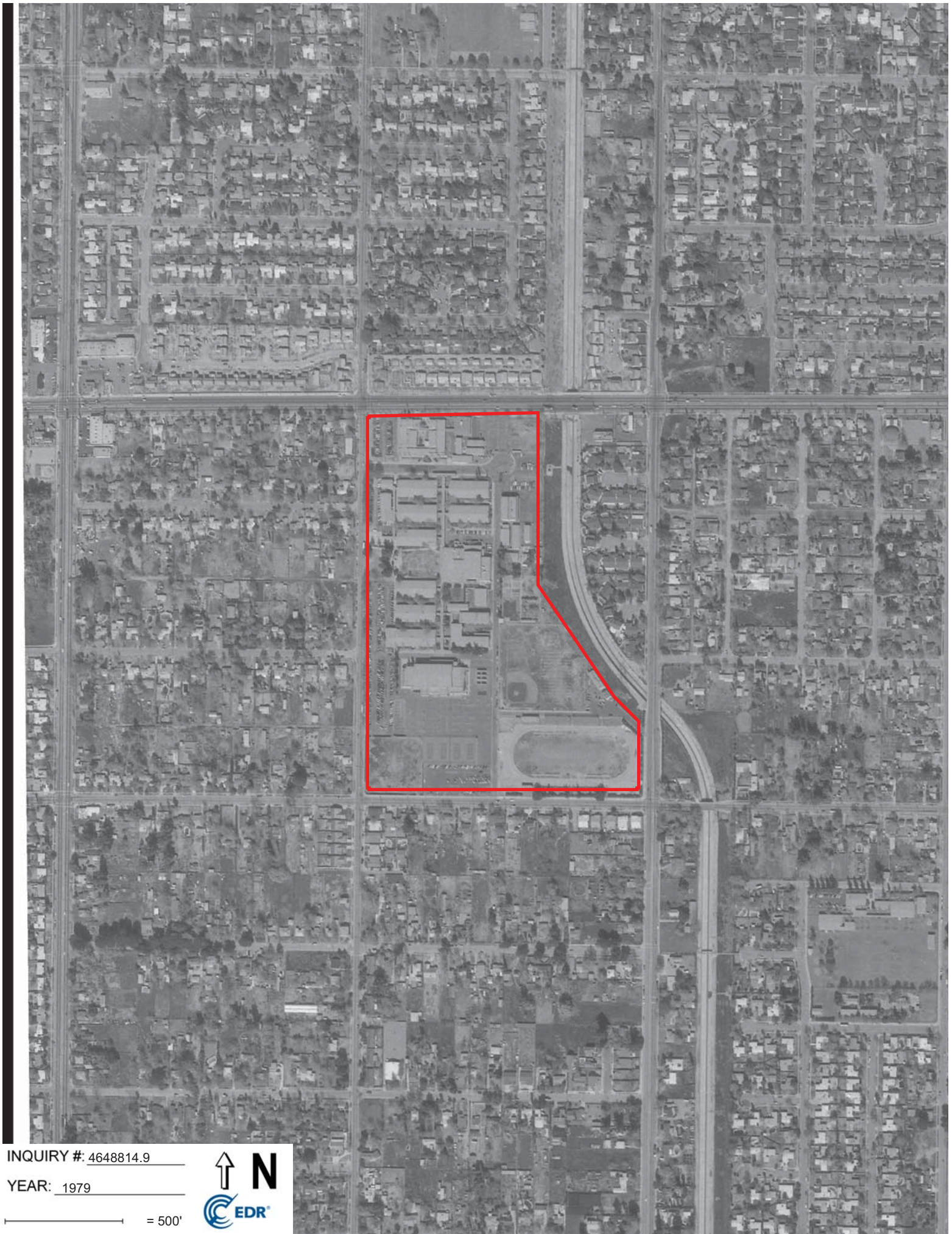


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YEAR: 1981

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YEAR: 1979

— = 500'





INQUIRY #: 4648814.9

YEAR: 1977

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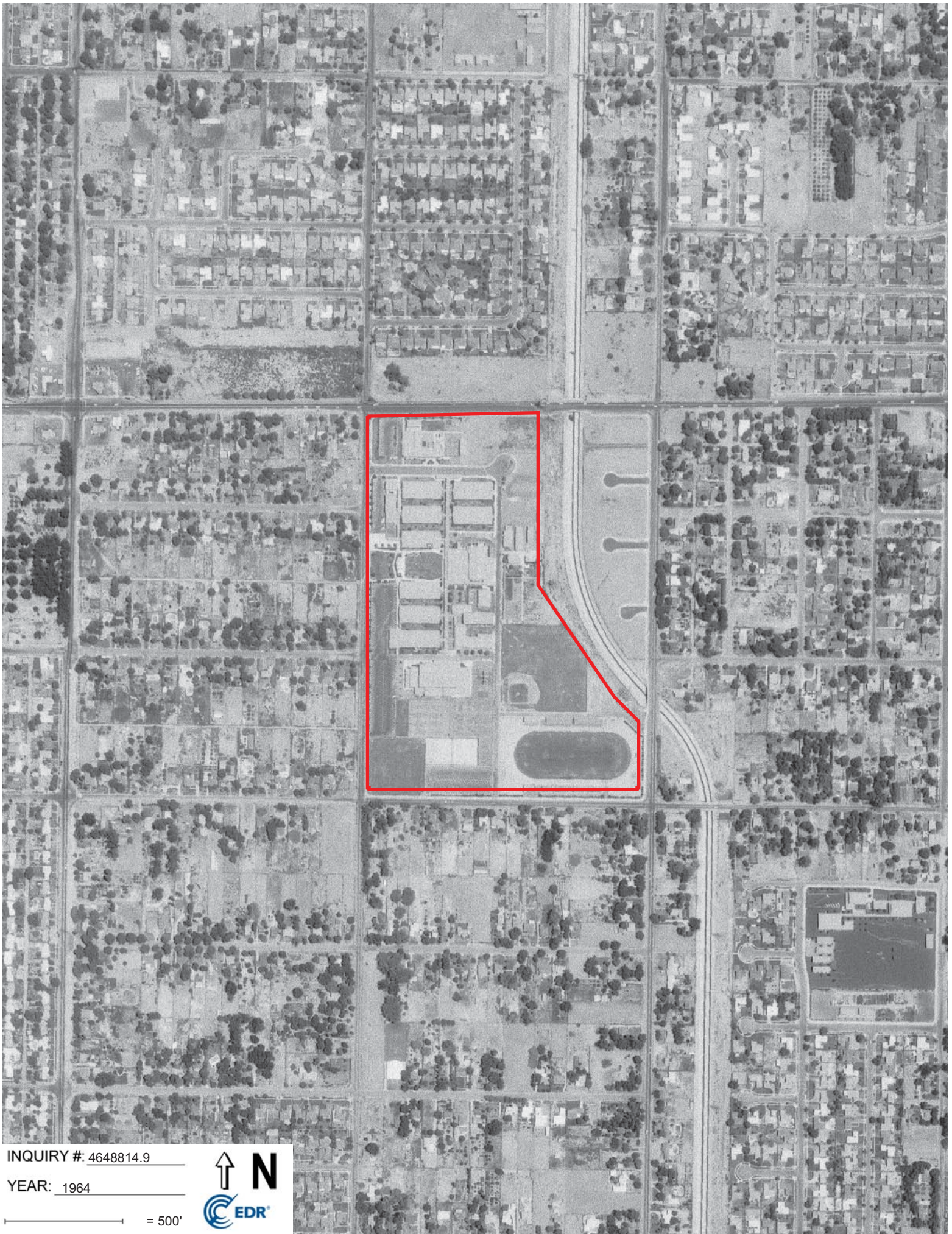


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YEAR: 1964

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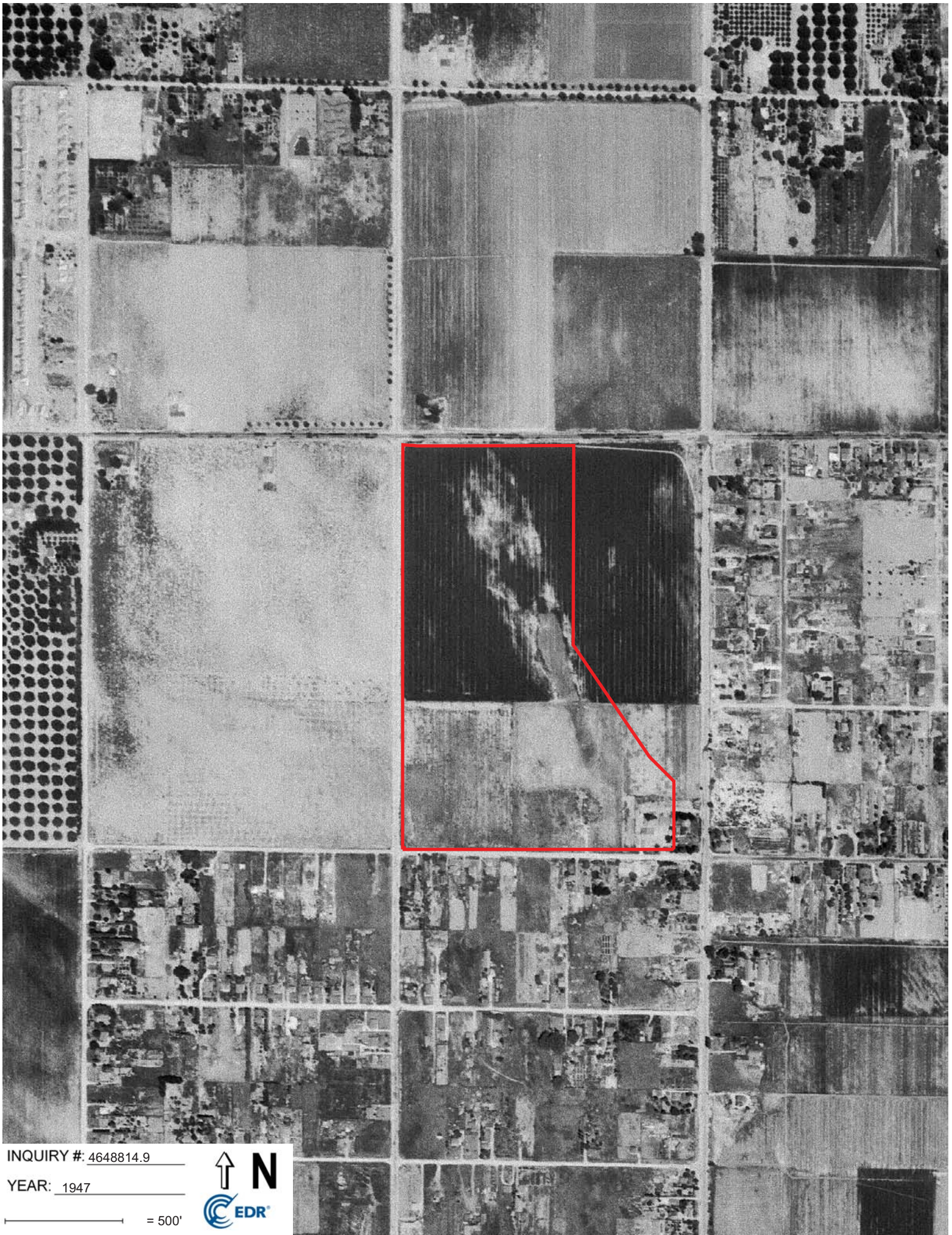


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YEAR: 1952

— = 500'



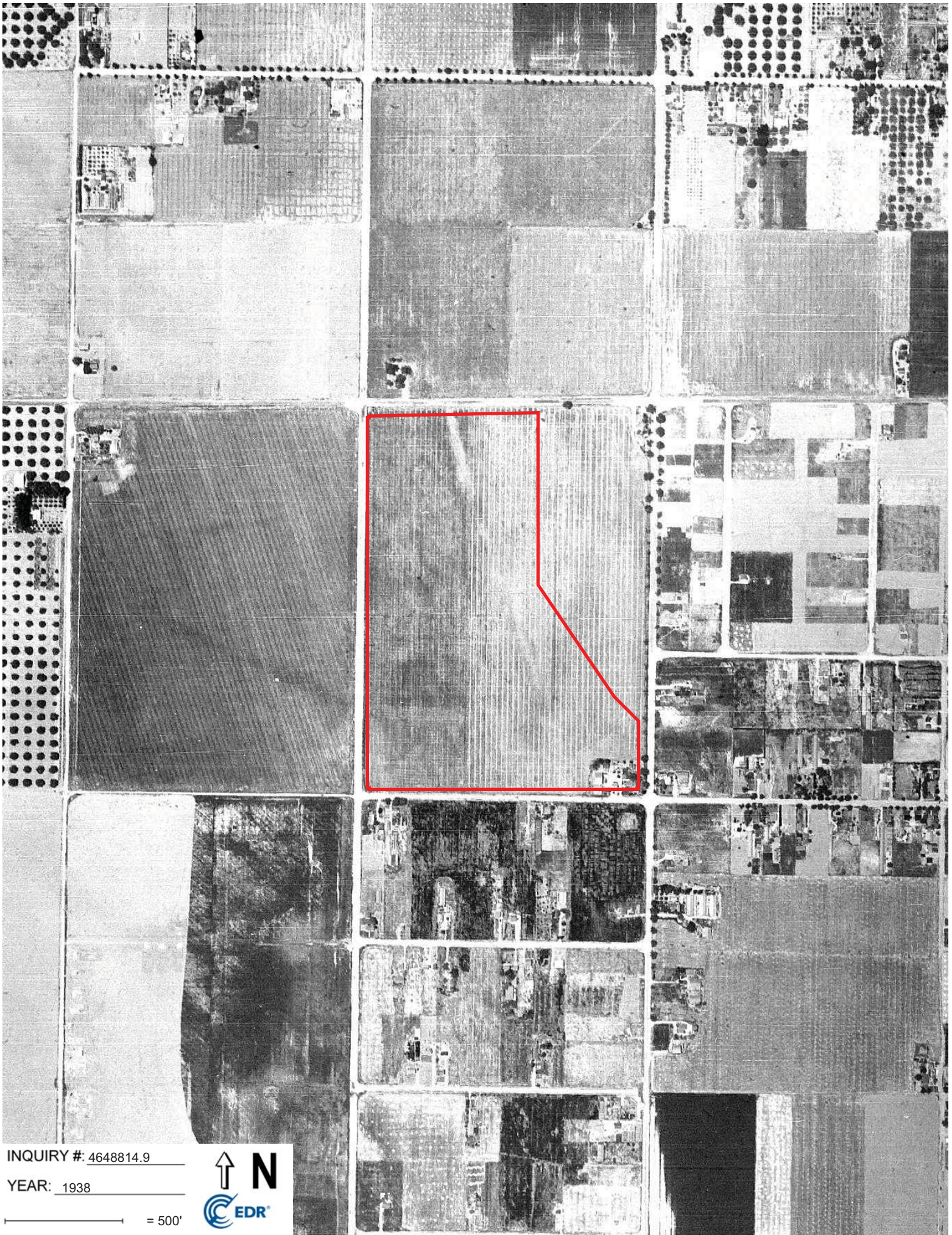


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YEAR: 1947

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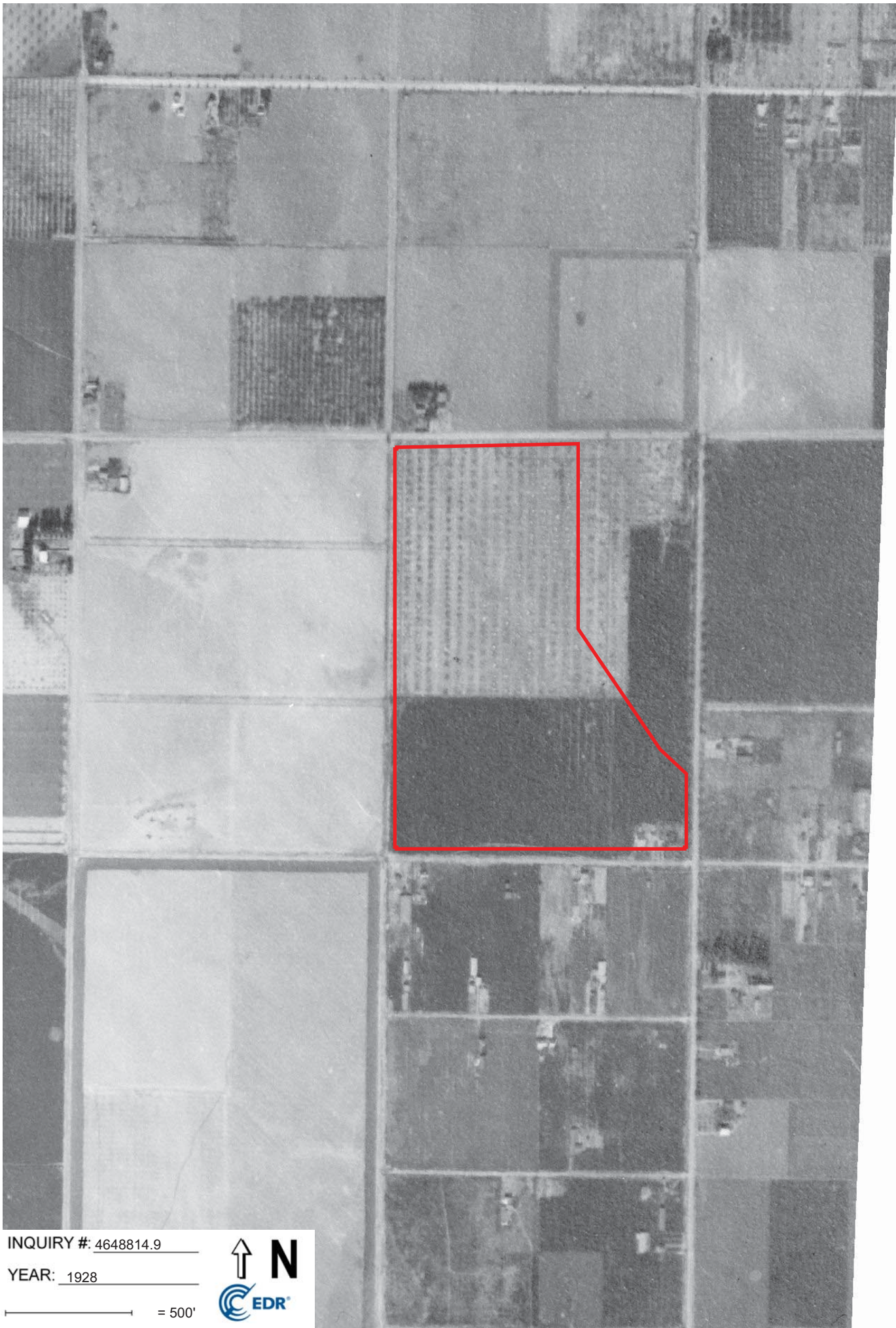


INQUIRY #: 4648814.9

YEAR: 1938

— = 500'





INQUIRY #: 4648814.9

YEAR: 1928

— = 500'



APPENDIX F
OEHS CHECKLIST

Preliminary Environmental Screening of Proposed Project at Existing School Site

Project: Cleveland Charter High School.

Selection Criteria	Yes	No	Comments
Powerlines/Electromagnetic Fields			
[CCR, Title 5, 14010(c)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from 50-133 kV powerlines/electromagnetic fields within 100 feet of the site?		X	Per LADWP. 127 kV lines are present adjacent to the east of the site.
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from 220-230 kV powerlines/electromagnetic fields within 150 feet of the site?		X	Per LADWP
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from 500-550 kV powerlines/electromagnetic fields within 350 feet of the site?		X	Per LADWP
Railroads			
[CCR, Title 5, 14010(d)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from railroads within 1,500 feet of the site?		X	Per Quadrangle Canoga Park topographic map
Traffic Noise			
[CCR, Title 5, 14010(e)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from adjacent roads or freeways that will adversely affect the educational program?		X	Per Quadrangle Canoga Park topographic map
Faults			
[CCR, Title 5, 14010(f)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from an active earthquake fault or fault trace which may be onsite?		X	Per ZIMAS
Flood or Inundation Area			
[CCR, Title 5, 14010(g)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from flooding or dam inundation?		X	Per ZIMAS
Pipelines and Above Ground Tanks			
[CCR, Title 5, 14010(h)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from nearby above-ground water or fuel storage tanks?		X	Per LADWP
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from above-ground or underground pipelines located within 1,500 feet of the site?		X	Per SCGC, high pressure natural gas lines are present beneath Roscoe Boulevard and Wilbur Avenue, adjacent to the north and east of the site, respectively. Per SFM and NPMS, an inactive oil pipeline (Crimson Pipeline L.P.) is present beneath Roscoe Boulevard, adjacent to the north of the site.
Liquefaction and Landslides			
[CCR, Title 5, 14010(i)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from liquefaction or landslides?		X	Per ZIMAS
Traffic and Pedestrian Safety			
[CCR, Title 5, 14010(l)]			

Preliminary Environmental Screening of Proposed Project at Existing School Site

Project: Cleveland Charter High School.

Selection Criteria	Yes	No	Comments
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from an adjacent major arterial street?		X	
Compatible Zoning [CCR, Title 5, 14010(m)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from the zoning surrounding the site?		X	Per ZIMAS
Light, Wind, Air Pollution [CCR, Title 5, 14010(q)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from light, wind or air pollution?		X	Per lightpollutionmap.info, windfinder.com, and SCAQMD
Easements [CCR, Title 5, 14010(r)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from easements on or adjacent to the site which may restrict access or building placement?		X	Per ZIMAS
Border Zone Property [CCR, Title 5, 14010(t)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a significant disposal of hazardous waste within 2,000 ft. of the site?		X	Per site reconnaissance and EDR
Cellular Phone Towers [LAUSD Board Resolution]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a cellular phone tower on or adjacent to the site?		X	Per MapMuse
Air Pollution [LAUSD Board Resolution]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a major transportation corridor (freeway, major rail line) within 500 feet?		X	Per Quadrangle Canoga Park topographic map
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a major stationary source of emissions within 500 feet?		X	Per SCAQMD
Is the school on the Priority List of Schools Most at Risk from Air Pollution?		X	Per District
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a high-risk facility previously identified by OEHS?		X	No previously identified high-risk facilities by OEHS
Methane Zone			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a known methane zone or oil field?		X	Per ZIMAS
Oil Wells			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from an onsite oil well?		X	Per DOGGR
Airports			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from an airport within two nautical miles of the site?		X	Per Quadrangle Canoga Park topographic map

APPENDIX G
VAPOR ENCROACHMENT SCREENING

Phase I Environmental Site Assessment (ESA) Vapor Encroachment Conditions (VEC) matrix includes a (1) Search Radius Test, (2) Chemicals of Concern (COC) Test, and (3) a Critical Distance Test [1].

(1) Search Radius Test: Are there known or suspect contaminated properties in the primary area of concern within the corresponding search radii?

Yes No If **No**, then screening for a VEC is complete and no VEC *currently* exists, go to #4. If **Yes**, then:

(2) Chemicals of Concern Test: Are COCs likely to be present within the area of concern for those known or suspect contaminated sites identified based on the Search Distance Test?

Yes No If **No**, then screening for a VEC is complete and no VEC *currently* exists, go to #4. If **Yes**, then:

(3) Critical Distance Test: A plume test to determine whether or not COCs in the contaminated plume(s) may be within the critical distance.

Yes No (3a) Is information related to the contaminated plume(s) available (i.e. isoconcentration maps, site drawings, etc.)?

(3b) If **No**, then a VEC cannot be ruled out; check **Yes** in #4 below indicating it is likely a VEC exists. If **Yes**, then:

Yes No (3c) Is the site less than 100 feet to the nearest edge of a contaminated [non-petroleum hydrocarbon] plume(s)? If **Yes**, then check **Yes** in #4 below indicating it is likely a VEC exists.

Yes No (3d) Is the site less than 30 feet to the nearest edge of a dissolved petroleum hydrocarbon plume(s)? If **Yes**, then check **Yes** in #4 below indicating it is likely a VEC exists.

If the distance from the nearest edge of a contaminated plume to the nearest existing or planned structure on the site is less than 100 feet for non-petroleum hydrocarbon COC, or less than 30 feet for dissolved petroleum hydrocarbons, then it is presumed that a VEC *currently* exists beneath the site. If the distance from the nearest edge of the contaminated plume is greater than or equal to 100 feet for non-petroleum hydrocarbons, or 30 feet for dissolved petroleum hydrocarbon chemicals of concern, then it is presumed unlikely that a VEC *currently* exists beneath the site.

(4) Is it likely that a VEC *currently* exists beneath the site?

Yes No If **No**, then the VEC screening is complete and no further investigation is recommended at this time. If **Yes**, Ninyo & Moore recommends performing additional assessment, such as a Tier 2 VEC assessment according to ASTM E 2600-10.

[1] Based on guidance presented in the ASTM E 2600-10 Standard.

Appendix F

Noise Study Technical Report

Noise Study Technical Report

Cleveland Charter High School Comprehensive Modernization Project

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



June 2017

**NOISE STUDY TECHNICAL REPORT
CLEVELAND CHARTER HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT**

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INTRODUCTION

The Los Angeles Unified School District (LAUSD) is proposing a comprehensive modernization project at Cleveland Charter High School (Cleveland HS), 8140 Vanalden Avenue, Reseda California. Comprehensive modernization projects are designed to address the critical physical needs of the buildings and grounds at the campus through building replacement, renovations, modernization, and reconfiguration. The proposed Cleveland HS project is required to undergo an environmental review pursuant to the California Environmental Quality Act (CEQA).

This study will evaluate the potential noise impacts generated from the scheduled construction activity for the proposed project. Vehicular traffic is typically the dominant noise source for these types of projects. However, the modernization project is not expected to increase the capacity of the high school; therefore, traffic volumes traveling to and from the school are expected to remain the same. With no estimated increase in operational traffic volumes, operational noise impacts are not expected from the proposed project.

Construction activity during modernization of the high school could cause noise impacts to the students and faculty in attendance and the land uses surrounding the school property. Impacts would be considered significant if noise levels exceed the Land Use Compatibility Criteria for a particular land use as established in the County of Los Angeles General Plan Noise Element, City of Los Angeles Municipal Codes, and the policy statements and thresholds provided in the LAUSD School Upgrade Program (SUP) Program Environmental Impact Report (EIR).

PROJECT DESCRIPTION

Project Location

The proposed project is located at LAUSD's Cleveland HS campus, at 8140 Vanalden Avenue, (APN 2104-004-905) in the Reseda-West Van Nuys Community Plan Area of the City of Los Angeles (Figure 1). An existing site plan is shown in Figure 2.

The project site is located approximately 25 miles northwest of downtown Los Angeles, in a suburban residential area, and approximately seven miles to the east of the Los Angeles County/Ventura County boundary. Cleveland HS is approximately 37 acres and takes up most of the entire block, bordered on the north by Roscoe Boulevard, on the east by Wilbur Avenue and Aliso Canyon Wash, on the south by Strathern Street, and on the west by Vanalden Avenue.

The project area outside of the campus is comprised primarily of single-family residences located north, south, and west of the school parcel. An existing electrical transmission corridor and Aliso Canyon Wash are both located east of the campus.

Regional transportation facilities serving the project vicinity include the San Diego Freeway (I-405), located approximately four miles east of the project site and accessed by Roscoe Boulevard; the Ronald Reagan Freeway (I-118), located four miles north of the school and accessed by Tampa Avenue; and the Ventura Freeway (I-101), located approximately three miles south of the project site and accessed by Reseda Boulevard or Tampa Avenue.

**NOISE STUDY TECHNICAL REPORT
CLEVELAND CHARTER HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT**

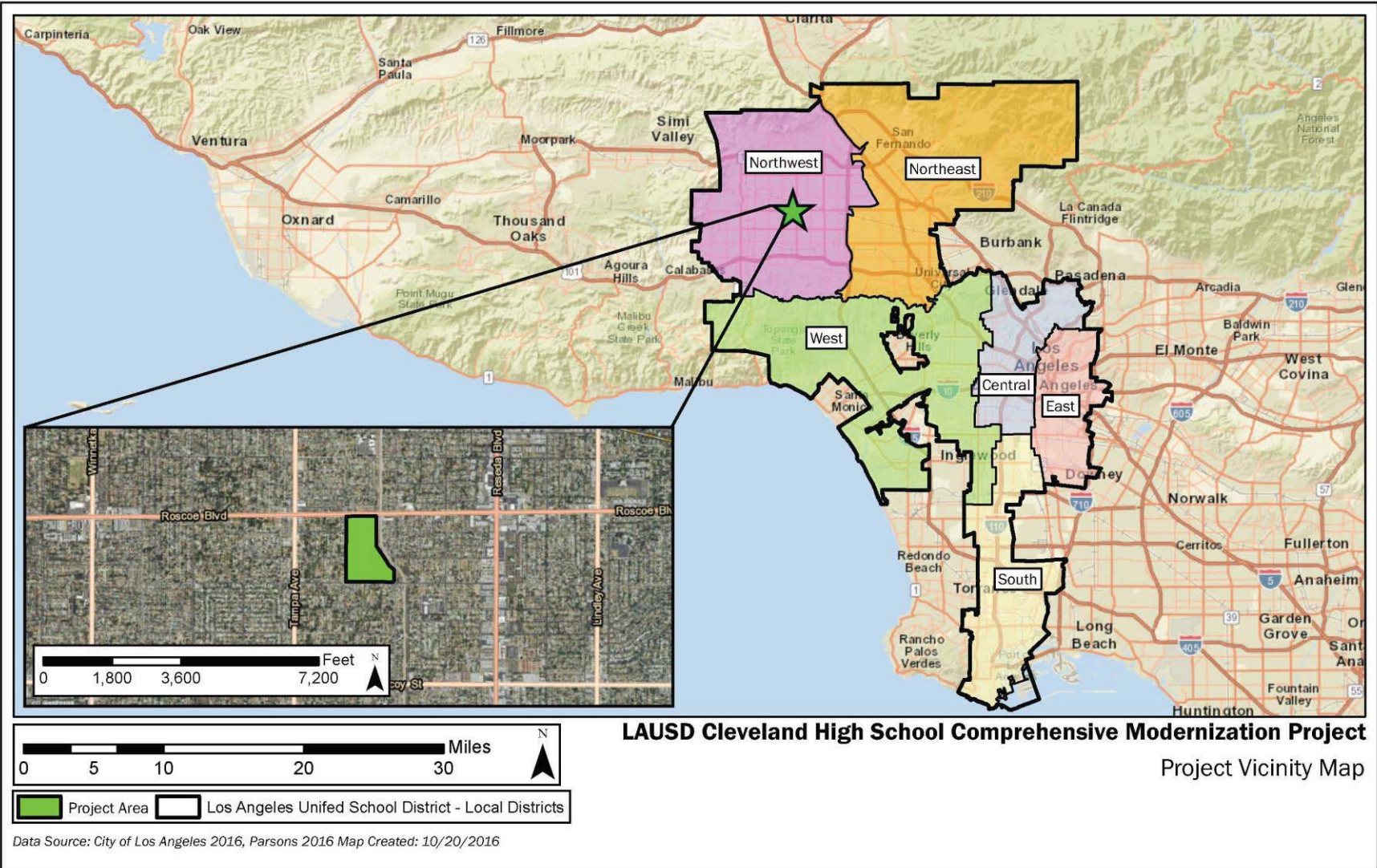


Figure 1 - Project Location Map

NOISE STUDY TECHNICAL REPORT
CLEVELAND CHARTER HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

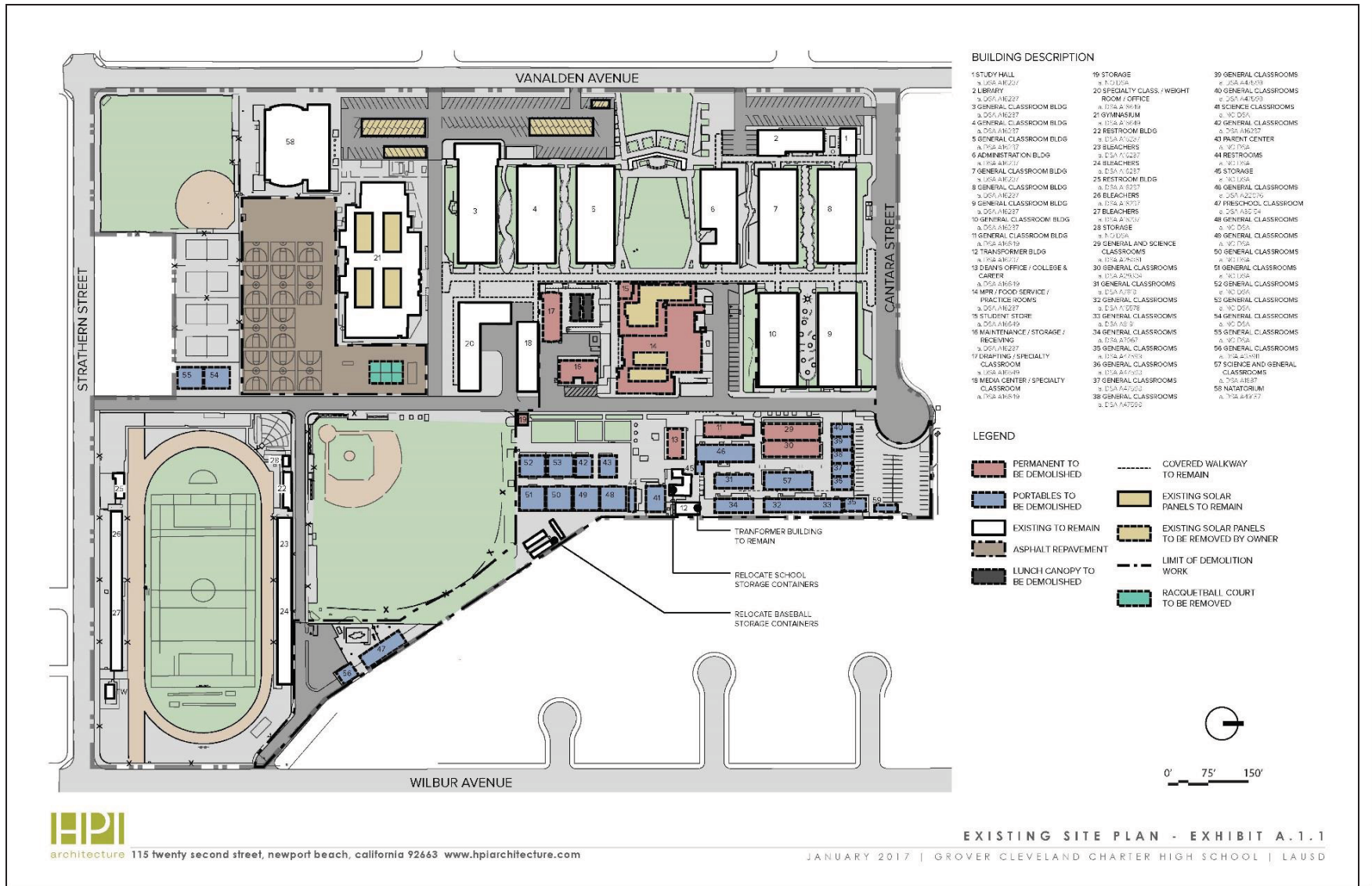


Figure 2 – Existing Site Plan

Existing School Conditions

Cleveland HS is located in a primarily residential neighborhood with some commercial development along Roscoe Boulevard. The school campus includes permanent and portable buildings, athletic fields, and landscape and hardscape areas. Cantara Street, a private street within the school, runs east-west between the northern portion of the campus and the Miller Career and Transition Center. An access route is situated north-south from Cantara Street through the campus site to Strathern Street.

The school has a planned enrollment capacity of 3,942 students in 9th through 12th grade. The 2015-2016 enrollment was 3,202, which was under the planned capacity by about 740 students. Two additional schools share the site with Cleveland HS. The Cleveland HS Early Education Center occupies a small separate area at the south end of the site and the Joaquin Miller Career and Transition Center is located just north of the access road, along Roscoe Boulevard. The swimming pool, used jointly by the school and the community, occupies the southwest corner of the site. Cleveland HS has been determined to be eligible as a historic district under the National Register and California Register criteria.

Proposed Improvements

The proposed project includes demolition, repurposing, new construction, cosmetic upgrades and site improvements to the existing campus. The proposed project includes the removal of nine permanent and 28 portable buildings, replace deteriorated utility lines, and relocate existing storage units and hardscape. The existing buildings noted for demolition do not meet the requirements of the school or the minimum LAUSD standards. Currently there are inadequate or nonexistent performing arts spaces, this includes: theater, dance, choral and music. Similarly, the existing science labs are undersized and lack the equipment necessary to teach 21st century science. Removing portable buildings would further LAUSD's goal to reduce the number of students using temporary facilities. This will also improve student safety and way finding on campus.

Depending on the physical condition and the Division of State Architect closed and certified status of the modular buildings, one of the 28 portable buildings shall be relocated and reused as the new transportation building.

The demolished school buildings would be replaced by seven new buildings; Building A (a 2-story General Classroom Building), Building B (a 3-story General and Science Classroom Building), Building C (a 1-story Food Service Building), Building D (a 1-story Performing Arts Center and Student Store), Building E (Maintenance and Operations Building), Building F (Community Day Care), and Building G (Office). The proposed project also includes site utilities infrastructure upgrades, new asphalt paving for physical education play courts and parking, landscape and hardscape areas, rerouting a pedestrian/energy service road to join Wilbur Avenue and Cantara Street (private), and converting a portion of the pedestrian/energy service road into a pedestrian spine. In addition, existing buildings to remain will require different levels of modernization, including exterior repainting, programmatic access, or complete interior remodeling. Implementation of the proposed project would add approximately 63,310 square feet of new buildings and remodel approximately 42,000 square feet of buildings at an existing campus. Operation of the proposed project would not generate new trips because the project would not increase student enrollment beyond the planned capacity.

The specific changes to the campus are listed in Table 1 and shown in Figure 3.

NOISE STUDY TECHNICAL REPORT
CLEVELAND CHARTER HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

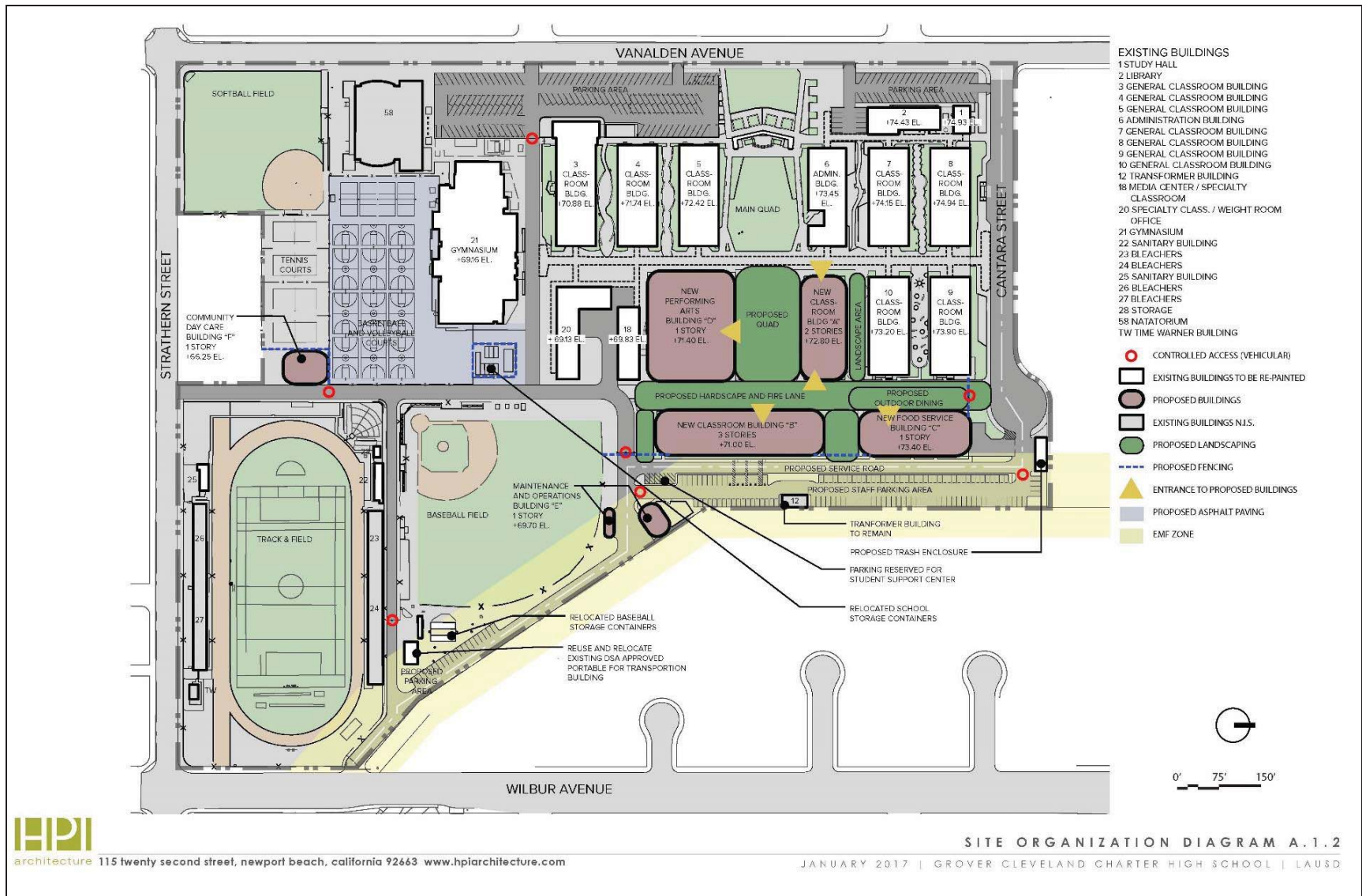


Figure 3 – Proposed Site Plan

**NOISE STUDY TECHNICAL REPORT
CLEVELAND CHARTER HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT**

Table 1 Proposed Project (Demolition, Remodel, and Construction)

Bldg. No.	Building	Demolition	Remodel/ Modernization	New Construction	Existing to Remain
1	Study Hall				1,547
2	Library				7,766
3	Arts Classrooms				16,631
4	Classrooms		12,354		584
5	Classrooms		12,052		1,365
6	Administration				11,652
7	Classrooms				12,071
8	Classrooms				12,072
9	Classrooms				12,996
10	Classrooms				12,532
11	Classrooms	2,644			
13	Dean's Office	1,704			
14	MPR-Food Service	23,848			
15	Student Store	842			
16	Utility	2,988			
17	Drafting	3,187			
18	Media Center				6,998
19	Storage	360			
20	Classrooms				11,987
21	Physical Education		17,756		21,352
22	Restrooms				1,101
25	Restrooms				779
28	Storage				360
29	Classrooms	6,166			
30	Classrooms	6,165			
31	Portable Classrooms	1,812			
32	Portable Classrooms	1,728			
33	Portable Classrooms	1,728			
34	Portable Classrooms	1,728			
35	Portable Classrooms	864			
36	Portable Classrooms	864			
37	Portable Classrooms	864			
38	Portable Classrooms	864			
39	Portable Classrooms	864			
40	Portable Classrooms	864			
41	Portable Classrooms	1,435			

**NOISE STUDY TECHNICAL REPORT
CLEVELAND CHARTER HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT**

Table 1 Proposed Project (Demolition, Remodel, and Construction)

Bldg. No.	Building	Demolition	Remodel/ Modernization	New Construction	Existing to Remain
42	Portable Classrooms	957			
43	Portable Classrooms	957			
44	Portable Toilets	480			
45	Portable Storage	80			
46	Portable Classrooms	2,891			
47	Portable Daycare/Child Development Center	2,378			
48	Portable Classrooms	1,914			
49	Portable Classrooms	1,914			
50	Portable Classrooms	1,914			
51	Portable Classrooms	1,914			
52	Portable Classrooms	1,914			
53	Portable Classrooms	1,914			
54	Portable Classrooms	1,914			
55	Portable classrooms	1,914			
56	Portable Classrooms	900			
57	Portable Classrooms	2500			
59	Transportation Portable	479			
	Building A and B Classrooms			88,429	
	Building C Food Service			25,320	
	Building D Arts Building			31,048	
	Building E Maintenance and Operations			3,506	
	Building F Child Development Center			2,472	
	Building G			989	
	Campus Total* (does not include outdoor space)	88,453	42,162	151,763	131,792

Note: All numbers are in square feet. All new square footages are approximate and subject to change during final site and architectural planning and design phases. These square footage changes would not significantly change the environmental analysis or findings in this Initial Study.

* Square footage totals may not add up exactly due to rounding and the way usable space is calculated. All numbers are based on LAUSD Cleveland Charter High School Comprehensive Modernization Project – Space Program. March 14, 2017.

Construction Schedule

Demolition of the existing buildings affected by the proposed Project is scheduled to commence during the fall/winter (fourth quarter) of 2018 and would last for approximately three to four months. After demolition and site preparation work is completed, construction of the new buildings would commence

concurrently. Construction activities would last for approximately 36 months and are anticipated to be completed by late-2021. The 36-month construction schedule will be divided into two 18-month sequential phases and will not overlap with one another.

CHARACTERISTICS OF SOUND

Sound can be described as the mechanical energy of a vibrating object transmitted by pressure waves through a liquid or gaseous medium (e.g., air) to a hearing organ, such as a human ear. Noise is defined as loud, unexpected, or annoying sound.

In the science of acoustics, the fundamental model consists of a sound (or noise) source, a receiver, and the propagation path between the two. The loudness of the noise source and the obstructions or atmospheric factors affecting the propagation path to the receiver determines the noise level and characteristics of the noise perceived by the receiver. The field of acoustics deals primarily with the propagation and control of sound.

Frequency

Continuous sound can be described by frequency (pitch) and amplitude (loudness). A low-frequency sound is perceived as low in pitch. Frequency is expressed in terms of cycles per second, or Hertz (Hz) (e.g., a frequency of 250 cycles per second is referred to as 250 Hz). High frequencies are sometimes more conveniently expressed in kilohertz (kHz), or thousands of Hertz. The audible frequency range for humans is generally between 20 Hz and 20,000 Hz.

Sound Pressure Levels and Decibels

The amplitude of pressure waves generated by a sound source determines the loudness of that source. Sound pressure amplitude is measured in micro-Pascals (μPa). One μPa is approximately one hundred billionth (0.0000000001) of normal atmospheric pressure. Sound pressure amplitudes for different kinds of noise environments can range from less than 100 to 100,000,000 μPa . Because of this huge range of values, sound is rarely expressed in terms of μPa . Instead, a logarithmic scale is used to describe sound pressure level (SPL) in terms of decibels (dB). The threshold of hearing for young people is about 0 dB, which corresponds to 20 μPa .

Addition of Decibels

Because decibels are logarithmic units, SPL cannot be added or subtracted through ordinary arithmetic. Under the decibel scale, a doubling of sound energy corresponds to a 3-dB increase. In other words, when two identical sources are each producing sound of the same loudness, the resulting sound level at a given distance would be approximately 3 dB higher than one source under the same conditions ($10\log[2]$). For example, if one automobile produces an SPL of 70 dB when it passes an observer, two cars passing simultaneously would not produce 140 dB – rather, they would combine to produce approximately 73 dB. Under the decibel scale, three sources of equal loudness together produce a sound level approximately 5 dB louder than one source ($10\log[3]$).

A-Weighted Decibels

The decibel scale alone does not adequately characterize how humans perceive noise. The dominant frequencies of a sound have a substantial effect on the human response to that sound. Although the intensity (energy per unit area) of the sound is a purely physical quantity, the loudness or human response is determined by the characteristics of the human ear.

**NOISE STUDY TECHNICAL REPORT
CLEVELAND CHARTER HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT**

Human hearing is limited in the range of audible frequencies as well as in the way it perceives the SPL in that range. In general, people are most sensitive to the frequency range of 1,000-8,000 Hz, and perceive sounds within that range better than sounds of the same amplitude in higher or lower frequencies. To approximate the response of the human ear, sound levels of individual frequency bands are weighted, depending on the human sensitivity to those frequencies. Then, an “A-weighted” sound level (expressed in units of dBA) can be computed based on this information.

The A-weighting network approximates the frequency response of average human hearing when listening to most ordinary sounds. When we make judgments regarding the relative loudness or annoyance of a given sound, these judgments generally correlate well with A-weighted sound levels. Other weighting networks have been devised to address high noise levels or other special acoustical characteristics (e.g., B-, C-, and D-scales), but these scales are rarely used in conjunction with highway traffic noise. Noise levels for traffic noise reports are typically reported in terms of A-weighted decibels or dBA. **Table 2** describes typical A-weighted noise levels for various noise sources.

Table 2. Typical A-Weighted Noise Levels

Common Outdoor Noise	Noise Level (dBA)	Common Indoor Noise
	— 110 —	Rock band (noise to some, music to others)
Jet fly-over at 1000 feet		
	— 100 —	
Gas lawn mower at 3 feet		
	— 90 —	
Diesel truck at 50 feet at 50 mph		Food blender at 3 feet
	— 80 —	Garbage disposal at 3 feet
Noisy urban area, daytime		
Gas lawn mower, 100 feet	— 70 —	Vacuum cleaner at 10 feet
Commercial area		Normal speech at 3 feet
Heavy traffic at 300 feet	— 60 —	
		Large business office
Quiet urban daytime	— 50 —	Dishwasher in neighboring room
Quiet urban nighttime	— 40 —	Theater, large conference room (background)
Quiet suburban nighttime		
	— 30 —	Library
Quiet rural nighttime		Bedroom at night
	— 20 —	
		Broadcast/recording studio
	— 10 —	
Lowest threshold of human hearing	— 0 —	Lowest threshold of human hearing

Source: Caltrans, *Technical Noise Supplement*, October 1998.

Human Response to Changes in Noise Levels

As discussed above, doubling sound energy results in a 3 dB increase in sound level. However, given a sound level change measured with precise instrumentation, the subjective human perception of a doubling of loudness will usually be different than what is measured. Under controlled conditions in an acoustical laboratory, trained, healthy human hearing is able to discern 1 dB changes in sound levels, when exposed to steady, single-frequency (“pure-tone”) signals in the mid-frequency (1,000 Hz–8,000 Hz) range. In typical noisy environments, changes in noise of 1 to 2 dB are generally not perceptible. However, it is widely accepted that people are able to begin to detect sound level increases of 3 dB in typical noisy environments. Further, a 5-dB increase is generally perceived as a distinctly noticeable increase, and a 10-dB increase is generally perceived as a doubling of loudness. Therefore, a doubling of sound energy (e.g., doubling the volume of traffic on a highway) that would result in a 3 dB increase in sound, would generally be perceived as barely detectable.

Noise Descriptors

Noise in our daily environment fluctuates over time. Some fluctuations are minor, but others are substantial. Some noise levels occur in regular patterns, but others are random. Some noise levels fluctuate rapidly, but others slowly. Some noise levels vary widely, but others are relatively constant. Various noise descriptors have been developed to describe time-varying noise levels. The following are the noise descriptors most commonly used in traffic noise analysis.

- **Equivalent Sound Level (L_{eq}):** L_{eq} represents an average of the sound energy occurring over a specified period. In effect, L_{eq} is the steady-state sound level containing the same acoustical energy as the time-varying sound that actually occurs during the same period. The one-hour, A-weighted equivalent sound level ($L_{eq}[h]$) is the energy-average of A-weighted sound levels occurring during a one-hour period, and is the basis for noise abatement criteria (NAC) used by Caltrans and FHWA.
- **Percentile-Exceeded Sound Level (L_n):** L_n represents the sound level exceeded for a given percentage (n) of a specified period (e.g., L_{10} is the sound level exceeded 10 percent of the time, and L_{90} is the sound level exceeded 90 percent of the time).
- **Maximum Sound Level (L_{max}):** L_{max} is the highest instantaneous sound level measured during a specified period.
- **Day-Night Level (L_{dn}):** L_{dn} is the energy average of A-weighted sound levels occurring over a 24-hour period, with a 10-dB penalty applied to A-weighted sound levels occurring during nighttime hours (10 p.m.-7 a.m.).
- **Community Noise Equivalent Level (CNEL):** Similar to L_{dn} , CNEL is the energy-average of the A-weighted sound levels occurring over a 24-hour period, with a 10-dB penalty applied to A-weighted sound levels occurring during the nighttime hours between (10 p.m.-7 a.m.) and a 5-dB penalty applied to the A-weighted sound levels occurring during evening hours (7 p.m.-10 p.m.).

Sound Propagation

When sound propagates over a distance, it changes in level and frequency content. The manner in which noise reduces with distance depends on the following factors.

Geometric Spreading

Sound from a localized source (i.e., a point source) propagates uniformly outward in a spherical pattern. The sound level attenuates (or decreases) at a rate of 6 decibels for each doubling of distance from this source. Highways consist of several localized noise sources on a defined path, and hence can be treated as a line source, which approximates the effect of several point sources. Noise from a line source propagates outward in a cylindrical pattern, often referred to as cylindrical spreading. Sound levels attenuate at a rate of 3 decibels for each doubling of distance from a line source.

Ground Absorption

The propagation path of noise from a highway to a receiver is usually very close to the ground. Noise attenuation from ground absorption and reflective wave canceling increases the attenuation associated with geometric spreading. Traditionally, the excess attenuation has also been expressed in terms of attenuation per doubling of distance. This approximation is usually sufficiently accurate for distances of less than 200 feet. For acoustically hard sites (i.e., sites with a reflective surface between the source and the receiver, such as a parking lot or body of water), no excess ground attenuation is assumed. For acoustically absorptive or soft sites (i.e., those sites with an absorptive ground surface between the source and the receiver – such as soft dirt, grass, or scattered bushes and trees), an excess ground-attenuation value of 1.5 decibels per doubling of distance is normally assumed. When added to the cylindrical spreading, the excess ground attenuation results in an overall drop-off rate of 4.5 decibels per doubling of distance.

Atmospheric Effects

Receivers located downwind from a source can be exposed to increased noise levels relative to calm conditions, whereas locations upwind can have reduced noise levels. Sound levels can be increased at large distances (e.g., more than 500 feet) from the highway due to atmospheric temperature inversion (i.e., increasing temperature with elevation). Other factors such as air temperature, humidity, and turbulence can also have significant effects.

Shielding by Natural or Man-Made Features

A large object or sound wall in the path between a noise source and a receiver can substantially attenuate noise levels at the receiver. The amount of attenuation provided by shielding depends on the size of the object and the frequency content of the noise. Natural terrain features (e.g., hills and dense woods) and man-made features (e.g., buildings and walls) can substantially reduce noise levels. Walls are often constructed between a source and a receiver specifically to reduce noise. A sound wall that breaks the line of sight between a source and a receiver will typically result in at least 5 dB of noise reduction. Taller sound walls provide increased noise reduction. Vegetation between the highway and receiver is rarely effective in reducing noise unless it is sufficiently dense.

REGULATORY STANDARDS

The governing regulatory framework in the proposed project area is driven by federal, state and local agencies enforcement of noise standards and specific regulations that govern roadway development.

The following thresholds of significance for determining the significance of noise impacts were derived from the environmental checklist form in Appendix G of the most recent update of the CEQA guidelines. For the purposes of this analysis, noise impacts resulting from implementation of the proposed project would be considered significant if:

- 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?
- Exposure of persons to or generation of excessive ground borne vibration or ground borne noise levels?
- A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?
- A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?
- For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?
- For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

Los Angeles CEQA Thresholds

The City of Los Angeles has published the City of Los Angeles CEQA Thresholds Guide (2006), which includes significance thresholds for construction and operational noise. The operational thresholds are applicable for land development projects that have stationary sources that are likely to be audible beyond the property line of the project site or, 75 or more dwelling units, 100,000 square feet or greater of nonresidential development, or has the potential to generate 1,000 or more average daily vehicle trips. A project would normally have a significant impact on noise levels from project operations if:

- The project causes the ambient noise level measured at the property line of affected uses to increase by 3 dBA in CNEL to or within the "normally unacceptable" or "clearly unacceptable" category, or any 5 dBA or greater noise increase (see Table 3 below).

For construction noise, the significance thresholds apply if activity occurs within 500 feet of a residential use or between the hours identified in the Noise Ordinance. The proposed project would have construction activities occurring within 500 feet of residential land uses; therefore, the significance thresholds will be applicable. A project would normally have a significant impact on noise levels from construction if:

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- Construction activities lasting more than one day would exceed existing ambient exterior noise levels by 10 dBA or more at a noise sensitive use;
- Construction activities lasting more than 10 days in a 3-month period would exceed existing ambient exterior noise levels by 5 dBA or more at a noise sensitive use; or
- Construction activities would exceed the ambient noise level by 5 dBA at a noise sensitive use between the hours of 9:00 p.m. and 7:00 a.m. Monday through Friday, before 8:00 a.m. or after 6:00 p.m. on Saturday, or at anytime on Sunday.

California State Building Code

California Government Code Section 65302 (f) mandates that the legislative body of each county and city adopt a noise element as part of their comprehensive general plan. The local noise element must recognize the land use compatibility guidelines established by the State Department of Health Services as shown in Table 3, California Land Use Compatibility Noise Guidelines. The City of Los Angeles has adopted these standards.

Table 3. Land Use Compatibility for Community Noise Environments

Land Use Category	Community Noise Exposure Level (in terms of CNEL)			
	Normally Acceptable	Conditionally Acceptable	Normally Unacceptable	Clearly Unacceptable
Residential – Low Density, Single-Family, Duplex, Mobile Homes	50 – 60	55 – 70	70 – 75	75 – 85
Residential – Multiple Family	50 – 65	60 – 70	70 – 75	70 – 85
Transient Lodging – Motel, Hotels	50 – 65	60 – 70	70 – 80	80 – 85
Schools, Libraries, Churches, Hospitals, Nursing Homes	50 – 70	60 – 70	70 – 80	80 – 85
Auditoriums, Concert Halls, Amphitheaters	NA	50 – 70	NA	65 – 85
Sports Arenas, Outdoor Spectator Sports	NA	50 – 75	NA	70 – 85
Playgrounds, Neighborhood Parks	50 – 70	NA	67.5 – 75	72.5 – 85
Golf Courses, Riding Stables, Water Recreation, Cemeteries	50 – 70	NA	70 – 80	80 – 85
Office Buildings, Business Commercial and Professional	50 – 70	67.5 – 77.5	75 – 85	NA
Industrial, Manufacturing, Utilities, Agriculture	50 – 75	70 – 80	75 – 85	NA

Source: *General Plan Guidelines, Office of Planning and Research, California, October 2003, page 250.*

Table 3. Land Use Compatibility for Community Noise Environments

Land Use Category	Community Noise Exposure Level (in terms of CNEL)			
	Normally Acceptable	Conditionally Acceptable	Normally Unacceptable	Clearly Unacceptable
<p>Notes:</p> <p>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.</p> <p>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, but with closed windows and fresh air supply systems or air conditioning will normally suffice.</p> <p>NORMALLY UNACCEPTABLE New Construction or development should 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.</p> <p>CLEARLY UNACCEPTABLE New construction or development should generally not be undertaken.</p> <p>NA: Not Applicable</p>				

The guidelines rank noise-land use compatibility in terms of “normally acceptable,” “conditionally acceptable” and “clearly unacceptable” noise levels for various land use types. Single-family homes are “normally acceptable” in exterior noise environments up to 60 CNEL and “conditionally acceptable” up to 70 CNEL. Multiple-family residential uses are “normally acceptable” in exterior noise environments up to 65 CNEL and “conditionally acceptable” up to 70 CNEL. Schools, libraries and churches are “normally acceptable” in exterior noise environments up to 70 CNEL, as are office buildings and business, commercial and professional uses.

LAUSD School Upgrade Program EIR

LAUSD has developed a set of policy statements and thresholds related to impacts for on-site school operations¹. These thresholds are designed to maintain a safe, comfortable educational environment for children attending LAUSD schools. Noise thresholds for LAUSD classrooms are:

- Maximum exterior noise level 70 dBA L₁₀ or 67 dBA L_{eq};
- Maximum interior classroom noise levels 55 dBA L₁₀ or 45 dBA L_{eq};
- Maximum permanent increase of noise levels at nearby noise sensitive land uses of 3 dBA or higher;
- Classroom acoustical performance shall be 45 dBA L_{eq} background noise level (unoccupied) or better with maximum (unoccupied) 0.6 second reverberation time.

Vibration Standards

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.

¹ LAUSD School Upgrade Program Final EIR, September 2015.

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 PPV². The Federal Transit Administration (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.

The LAUSD does not have vibration specific standards for vibration impacts for classrooms. However, the FTA has published standard vibration levels for construction equipment operations, at a distance of 25 feet. Table 4 presents the data from FTA sources that establish maximum allowable PPV values before structural damage is likely to occur.

Table 4 – FTA Construction Vibration Damage Criteria

Building Category	PPV (in/sec)
I. Reinforced-concrete, steel or timber (no plaster)	0.5
II. Engineered concrete and masonry (no plaster)	0.3
III. Non-engineered timber and masonry buildings	0.2
IV. Buildings extremely susceptible to vibration damage	0.12

Source: Federal Transit Administration (FTA), Transit Noise and Vibration Impact Assessment, May 2006.

EXISTING ENVIRONMENT

Schools can generate noise from sports events, athletic fields, playgrounds and parking lot activity. These features and activities may increase noise levels at nearby sensitive receptors, as schools are typically located in residential areas. Existing land uses in the proposed project area include single family homes, an electrical transmission corridor, a landscape nursery, the Aliso Canyon Wash, and a commercial strip mall. A site visit to the school identified that the dominant noise source within the project area are vehicles traveling on the local roadways bounding the high school. The school is bounded by Vanalden Avenue to the west, Roscoe Boulevard to the north, Strathern Street to the south, and Aliso Canyon wash to the east.

Residential land uses are located directly across the street on all four sides of the school. The closest residential receptors are located approximately 200 feet from the anticipated construction activity on the opposite side of the Aliso Canyon Wash. The first row of residences are located approximately 200 feet from the anticipated construction activity and residences on Vanalden Avenue. Residential land uses located on the opposite side of Strathern Street are located more than 500 feet away, residences on Vanalden Avenue are approximately 200 feet away and residences on Roscoe Boulevard are more than 400 feet away.

Noise measurements were not taken to identify existing noise levels within the proposed project area.

² American National Standards Institute (ANSI), "Guide to the Evaluation of Human Exposure to Vibration in Buildings," 1983.

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Presumed ambient noise levels provided in the City of Los Angeles Municipal Code Section 111.03 – Minimum Ambient Noise Level, shown were used in this evaluation and are shown in **Table 5**.

Table 5. Presumed Ambient Noise Levels (dBA)

Type	Zone	Presumed Ambient Noise Level, dBA	
		Day	Night
Residential	A1, A2, RA, RE, RS, RD, RW1, RW2, R1, R2, R3, R4, R5	50	40
Commercial	P, PB, CR, C1, C1.5, C2, C4, C5, CM60	60	55
Manufacturing	M1, MR1, MR2	60	55
Heavy Manufacturing	M2, M3	65	65

Source: Los Angeles Municipal Code, effective March 29, 1982.

CONSTRUCTION IMPACTS

The proposed project would involve demolition of nine permanent and 28 portable buildings, relocated hardscape and storage units, and the relocation of one portable building. The demolished school buildings will be replaced by seven new buildings. Demolition and construction of the buildings would generate short-term noise impacts during construction activities. Short-term noise levels associated with project construction would be higher than existing ambient noise levels, but would cease upon project completion. Noise impacts associated with construction activity are a function of the noise generated by construction equipment, location, sensitivity of nearby land uses, and the timing and duration of the noise-generating activities. Normally, these activities are carried out in stages and each stage has its own characteristics based on the mix of equipment in use. Table 6 shows the phases of construction, equipment, and noise emission levels. An estimate of L_{eq} can be calculated at various relevant distances for each stage of construction utilizing typical sound emission levels and the estimated usage factor. These estimated construction noise levels are also shown in Table 6.

Construction activities are anticipated to take up to 36 months, therefore, construction-related noise increases over 5 dBA CNEL or more over ambient levels at the residential dwellings adjacent to the project site would be significant. The proposed project area consists of a mixture of residential and commercial land uses. The presumed noise levels for residential and commercial land uses is 50 dBA and 60 dBA, respectively. These presumed noise levels are conservative estimates provided by the City, actual noise levels may be louder than 50 dBA in the residential areas as this area is a mixture of residential and commercial land uses. The nearest residence to the construction activity (construction and modernization of the school buildings) is located approximately 200 feet away. The estimated total noise level for construction and modernization at 200 feet is 76 dBA L_{eq} . The construction equipment would be operated intermittently and only during normal business hours. However, in comparing the estimated construction noise levels to the presumed residential noise levels, construction of the proposed project could cause a significant impact to the nearby residences. However, with the implementation of LAUSD Standard Conditions, construction impacts would be less than significant.

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Table 6. Predicted Construction Equipment Noise Levels

Phase 1 & 2	Schedule	Equipment	Max Sound Level at 50 Feet ¹	Usage Factor ²	Sound Level at 50 feet	Sound Level at 100 feet	Sound Level at 200 feet
Demolition/Interim Housing/Modernization (i.e., Building Interiors)	2 months	Excavators	85	0.3	80	74	68
		Loader	85	0.5	82	76	70
		Bobcat/Skip	80	0.3	75	69	63
		Jack Hammers/Air Compressor	81	0.5	78	72	66
		Overall L_{eq}:			85	79	73
Site Prep/Modernization	2 months	Excavator	85	0.3	80	74	68
		Compactor	82	0.3	77	71	65
		Loader	85	0.5	82	76	70
		Skip Loader	80	0.2	73	67	61
		Vibratory Rollers (for 95% soil compaction)	74	0.2	67	61	55
		Trencher / Excavator	85	0.3	80	74	68
		Overall L_{eq}:			86	80	74
Building Construction /Modernization	12 months	Concrete Trucks	85	0.3	80	74	68
		Crane-Mounted Auger Drill, or Crane-Suspended Downhole Vibrator	83	0.3	78	72	66
		Concrete Pump	82	0.3	77	71	65
		Crane	83	0.3	78	72	66
		Dump Trucks	88	0.5	85	79	73
		Backhoes	80	0.3	75	69	63
		Air Compressor	81	0.5	78	72	66
		Overall L_{eq}:			88	82	76
Asphalt Paving and Off-	2 months	Skip Loaders	80	0.2	73	67	61

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Table 6. Predicted Construction Equipment Noise Levels

Phase 1 & 2	Schedule	Equipment	Max Sound Level at 50 Feet ¹	Usage Factor ²	Sound Level at 50 feet	Sound Level at 100 feet	Sound Level at 200 feet
Site Street Work		Roller	74	0.3	69	63	57
		Paver	89	0.3	84	78	72
		Asphalt Trucks	88	0.3	83	77	71
		Overall L_{eq}:			87	81	75

Notes:

- 1) Max sound levels from the FHWA Construction Noise Handbook (August 2006) were utilized.
- 2) Usage factor is a percentage of time a piece of equipment is used within an 8-hour time period. It was assumed that no piece of equipment would be utilized for more than 50% of the time.

Normal school operations and classroom schedules would continue throughout construction of the proposed project. Some of the noise generating construction activities will, for several days at a time, be near enough to classroom buildings to create a potential for noise disturbance. Per LAUSD standards, the interior threshold for classroom noise levels are 45 dBA L_{eq} or below. Exterior walls, with closed single-pane windows, typically provide an average of 20 dB reduction from exterior noise levels, without extra measures. The noisiest construction activity (building construction) would potentially generate noise levels as high as 88 dBA L_{eq} at 50 feet in distance, which could potentially cause interior noise levels of 68 dBA L_{eq} inside nearby classrooms. These potential noise levels would exceed the LAUSD interior classroom noise threshold. However, this noise level is assuming the 30 percent continuous operation of all construction equipment in a single hour. With the utilization of the following LAUSD Standard Conditions, construction impacts would be less than significant to interior classroom noise.

SC-N-5: LAUSD Facilities Division or its construction contractor shall consult and coordinate with the school principal or site administrator, and other nearby noise sensitive land uses prior to construction to schedule high noise or vibration producing activities to minimize disruption. Coordination between the school, nearby land uses and the construction contractor shall continue on an as-needed basis throughout the construction phase of the project to reduce school and other noise sensitive land use disruptions.

SC-N-6: The LAUSD shall require the construction contractor to minimize blasting for all construction or demolition activities, where feasible. If demolition is necessary adjacent to residential uses or fragile structures, the LAUSD shall require the construction contractor to avoid using impact tools. Alternatives that shall be considered include mechanical methods using hydraulic crushers or deconstruction techniques.

SC-N-9 LAUSD shall prepare a noise assessment. If site-specific review of a school construction project identifies potentially significant adverse construction noise impacts, then LAUSD shall implement all feasible measures to reduce below applicable noise ordinances. Exterior construction noise levels exceed local noise standards, policies, or ordinances at noise-sensitive receptors. LAUSD shall mandate that construction bid contracts include the measures identified in the noise assessment. Specific noise reduction measures include, but are not limited to, the following:

Source Controls

- Time Constraints – prohibiting work during sensitive nighttime hours.
- Scheduling – performing noisy work during less sensitive time periods (on operating campus: delay the loudest noise generation until class instruction at the nearest classrooms has ended; residential: only between 7:00 AM and 7:00 PM).
- Equipment Restrictions – restricting the type of equipment used.
- Noise Restrictions – specifying stringent noise limits.
- Substitute Methods – using quieter methods and/or equipment.
- Exhaust Mufflers – ensuring equipment have quality mufflers installed.
- Lubrication & Maintenance – well maintained equipment is quieter.

- Reduced Power Operation – use only necessary size and power.
- Limit Equipment On-Site – only have necessary equipment on-site.
- Noise Compliance Monitoring – technician on site to ensure compliance.
- Quieter Backup Alarms – manually-adjustable or ambient sensitive types.

Path Controls

- Noise Barriers – semi-permanent or portable wooden or concrete barriers.
- Noise Curtains – flexible intervening curtain systems hung from supports.
- Enclosures – encasing localized and stationary noise sources.
- Increased Distance – perform noisy activities farther away from receptors, including operation of portable equipment, storage and maintenance of equipment.

Receptor Controls

- Window Treatments – reinforcing the building’s noise reduction ability.
- Community Participation – open dialog to involve affected residents.
- Noise Complaint Process – ability to log and respond to noise complaints. Advance notice of the start of construction shall be delivered to all noise sensitive receptors adjacent to the project area. The notice shall state specifically where and when construction activities will occur, and provide contact information for filing noise complaints with the contractor and the District. In the event of noise complaints the LAUSD shall monitor noise from the construction activity to ensure that construction noise does not exceed limits specified in the noise ordinance.
- Temporary Relocation – in extreme otherwise unmitigatable cases. Temporarily move residents or students to facilities away from the construction activity.

Operation of construction equipment causes ground vibrations which spread through the ground and diminish in strength with distance. Ground vibration from construction activities rarely reaches the levels that can damage structures, but they can achieve the audible range and be felt in buildings close to the project site. As previously discussed, the nearest sensitive receptors to the project site are 200 feet away from the construction activity. The calculated vibration levels expressed in VdB and PPV for typical construction equipment at distances of 25, 50, and 100 feet are listed in Table 7.

The construction equipment would be expected to generate intense noise that is disturbing and can result in ground vibration. Vibration levels at the nearest sensitive receptor could exceed the thresholds cited in Table 4 above. However, demolition activities would be temporary and cease upon project completion. Additionally, construction would only occur during daytime hours as permitted in Section 41.40 of the City’s Municipal code which would minimize sleep disruption and other disruptive effects at nearby sensitive uses.

Table 7. Vibration Source Levels for Construction Equipment

Equipment	PPV at 25 ft (in/sec)	PPV at 50 ft (in/sec)	PPV at 100 ft (in/sec)
Dyna Hoe with hydraulic ram (Hoe Ram)	0.089	0.031	0.011
Dump Truck (Loaded)	0.076	0.027	0.010
Pile Driver, Impact (Upper Range)	1.518	0.537	0.190
Pile Driver, Impact (Typical)	0.644	0.228	0.081
Pile Driver, Sonic (Upper Range)	0.734	0.260	0.092
Pile Driver, Sonic (Typical)	0.170	0.060	0.021
Vibratory Roller	0.210	0.074	0.026
Large Bulldozer	0.089	0.031	0.011
Crane-Mounted Auger Drill	0.089	0.031	0.011
Jackhammer	0.035	0.012	0.004
Whacker Compactor	0.004	0.001	0.0005
Small Bulldozer	0.003	0.001	0.0003

Source: Federal Transit Administration (FTA), Transit Noise and Vibration Impact Assessment, May 2006.

In addition, a number of buildings on the school grounds were found to be eligible as historic resources. Potential vibration impacts could impact these historic buildings. Construction vibration impacts would be less than significant with the application of the following LAUSD Standard Conditions.

- SC-N-7:** For projects where pile driving activities are required within 150 feet of a structure, a detailed vibration assessment shall be provided by an acoustical engineer to analyze potential impacts related to vibration to nearby structures and to determine feasible mitigation measures to eliminate potential risk of architectural damage.
- SC-N-8:** LAUSD shall meet with the construction contractor to discuss alternative methods of demolition and construction for activities within 25 feet of a historic building to reduce vibration impacts. During the preconstruction meeting, the construction contractor shall identify demolition methods not involving vibration-intensive construction equipment or activities. For example: sawing into sections that can be loaded onto trucks results in lower vibration levels than demolition by hydraulic hammers.
- Prior to construction activities, the construction contractor shall inspect and report on the current foundation and structural condition of the historic building.

- The construction contractor shall implement alternative methods identified in the preconstruction meeting during demolition, excavation, and construction for work done within 25 feet of the historic building.
- The construction contractor shall avoid use of vibratory rollers and packers adjacent to a historic building.
- During demolition the construction contractor shall not phase any ground-impacting operations near a historic building to occur at the same time as any ground impacting operation associated with demolition and construction of a new building.

During demolition and construction, if any vibration levels cause cosmetic or structural damage to a historic building the District shall issue “stop-work” orders to the construction contractor immediately to prevent further damage. Work shall not restart until the building is stabilized and/or preventive measures to relieve further damage to the building are implemented.

OPERATIONAL IMPACTS

Operation of the proposed project is not expected to increase enrollment or capacity at the school or generate growth. No new trips will be generated from this proposed improvement project. As traffic volumes are not anticipated to increase, traffic noise levels within the proposed project area will remain the same and within the “Normally Acceptable” range in the land use compatibility guidelines. Therefore, operation noise impacts will not cause a significant impact to the land uses within the proposed project area.

REFERENCES

City of Los Angeles Municipal Code

General Plan Guidelines, Office of Planning and Research, California, October 2003.

https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/handbook09.cfm

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Appendix G

Traffic Study Technical Memorandum

Traffic Study Technical Memorandum

Cleveland Charter High School Comprehensive Modernization Project

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



June 2017

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INTRODUCTION

The Los Angeles Unified School District (LAUSD) is proposing a comprehensive modernization project at Cleveland Charter High School (Cleveland HS), 8140 Vanalden Avenue, Reseda California. Comprehensive modernization projects are designed to address the critical physical needs of the buildings and grounds at the campus through building replacement, renovations, modernization, and reconfiguration. The proposed Cleveland HS project is required to undergo an environmental review pursuant to the California Environmental Quality Act (CEQA).

The project is part of the LAUSD School Upgrade Program that seeks to improve and modernize aging schools in the District. The proposed Project would not increase the existing number of students, or add capacity, and therefore would not generate new (permanent) traffic to the study area.

The State of California Department of Transportation (Caltrans), local law enforcement/transportation agencies, and LAUSD's Office of Environmental Health and Safety establish traffic safety requirements for school sites, including guidance associated with the posting of warning signs, pavement markings, crossing guards, on-street parking restrictions, pedestrian routes to school maps, stop signs, and traffic signals.

The purpose of this Technical Memo is to analyze the traffic and pedestrian circulation safety impacts associated with peak construction activities and operations related to the Project. This memorandum was prepared following the LAUSD Office of Environmental Health and Safety *Traffic and Safety Requirements for New Schools* (see Appendix A) guidance and includes the evaluation of four categories:

- Student Drop-off Areas
- Vehicle Access
- Pedestrian Routes to School
- General Signage

This analysis was conducted to ensure that foot traffic is adequately separated from vehicular traffic to minimize potential pedestrian safety risks to students, staff, and visitors at LAUSD schools. The analysis includes a discussion of the current condition of the streets, sidewalks, crosswalks, and traffic control associated with access to the school and an evaluation of the changes to the vehicular and pedestrian circulation patterns associated with the proposed Project. A description of the project regulatory framework and recommendations to improve access and safety are included.

PROJECT BACKGROUND

Project Location

The proposed project is located at LAUSD's Cleveland HS campus, at 8140 Vanalden Avenue, (APN 2104-004-905) in the Reseda-West Van Nuys Community Plan Area of the City of Los Angeles (Figure 1). An existing site plan is shown in Figure 2.

The project site is located approximately 25 miles northwest of downtown Los Angeles, in a suburban residential area, and approximately seven miles to the east of the Los Angeles County/Ventura County boundary. Cleveland HS is approximately 37 acres and takes up most of the entire block, bordered on the north by Roscoe Boulevard, on the east by Wilbur Avenue and Aliso Canyon Wash, on the south by Strathern Street, and on the west by Vanalden Avenue.

The project area outside of the campus is comprised primarily of single-family residences located north, south, and west of the school parcel. An existing electrical transmission corridor and Aliso Canyon Wash are located east of the campus. Cantara Street, a private street within the school, runs east-west through the northern portion of the site. An alleyway is situated north-south from Cantara Street through the campus site to Strathern Street.

Regional transportation facilities serving the project vicinity include the San Diego Freeway (I-405), located approximately four miles east of the project site and accessed by Roscoe Boulevard, the Ronald Reagan Freeway (I-118), located four miles north of the project site and accessed by Tampa Avenue, and the Ventura Freeway (I-101), located approximately three miles south of the project site and accessed by Reseda Boulevard or Tampa Avenue.

The proposed project includes demolition, repurposing, new construction, cosmetic upgrades and site improvements to the existing campus. The project would not increase the number of students, capacity, or vehicular trips. Construction activities are anticipated to begin in the Fall/Winter of 2018 and completed in the Fall/Winter of 2021.

ANALYSIS METHODOLOGY

The methodology for the analysis included:

- Establishing the existing baseline traffic conditions at the campus.
- Estimating construction trip generation using forecasts of construction workers and equipment provided by LAUSD.
- Providing a summary of the findings and making recommendations to improve circulation or safety, if warranted.

Congestion Management Program Locations

The Congestion Management Program (CMP) was enacted by the Los Angeles County Metropolitan Transportation Authority (Metro) to address traffic congestion issues that could impact quality of life and economic vitality¹. The intent of the program is to provide an analytical basis for transportation decisions throughout the state. An analysis is required at all CMP monitoring intersections for which a project would add 50 or more trips during any peak hour. The project would not conflict with CMP standards, since construction and operation of the proposed project would not add 50 or more trips on streets adjacent to the CMP intersection during the AM and PM peak hours, nor would it add 150 or more trips on the freeway, in either direction, during the AM and PM peak periods. As discussed above, during project construction there could be up to 50 workers on the site on an intermittent basis. Furthermore, incorporation of Standard Condition Measure SC-T-4, adopted by LAUSD², would encourage construction-related truck activity to take place during off-peak commuter periods. Based on the trip generation and location, no CMP arterial intersection or freeway mainline monitoring stations are required to be included in the analysis.

¹ https://www.metro.net/projects/congestion_mgmt_pgm/

² LAUSD School Upgrade Program Final EIR, September 2015

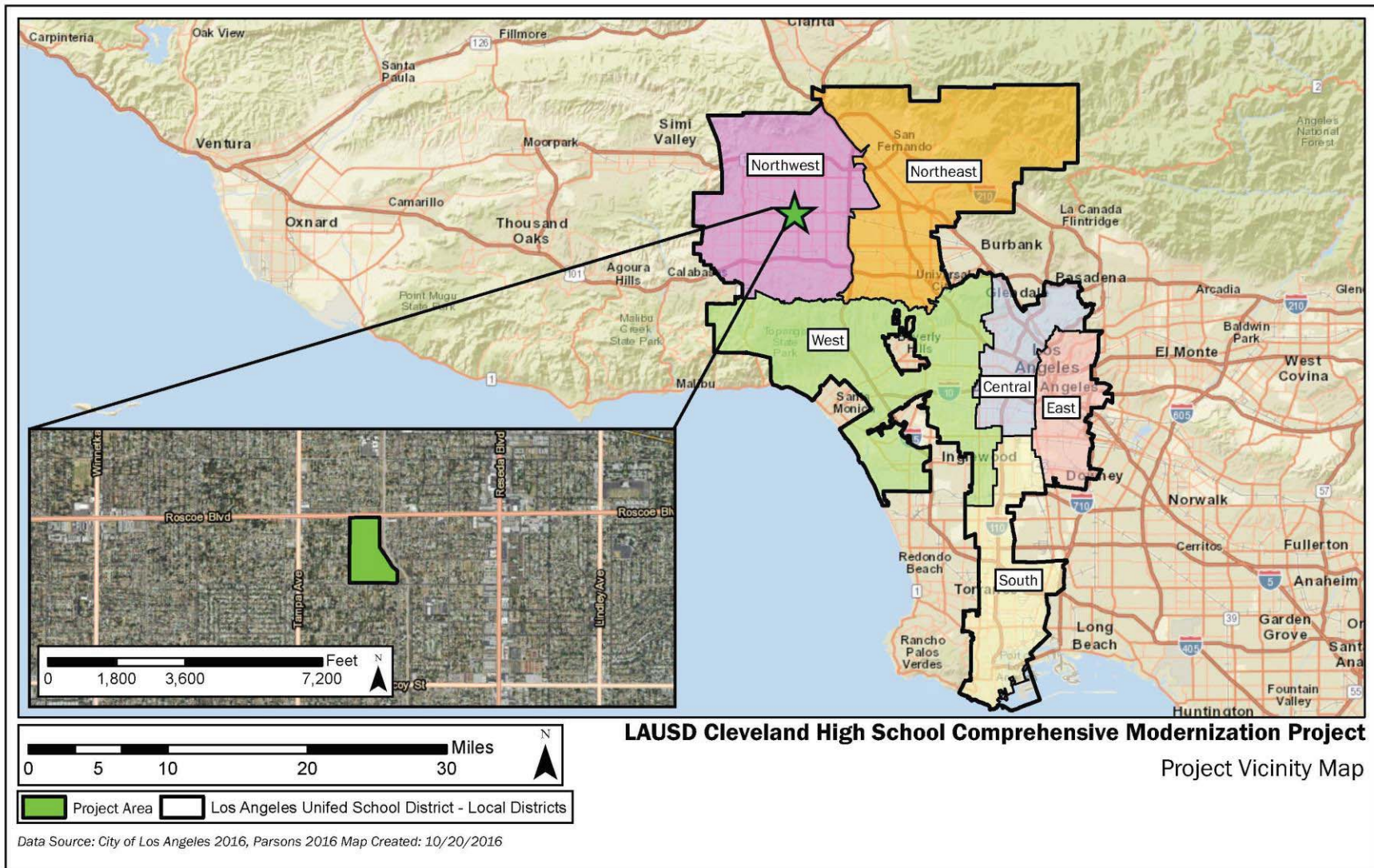
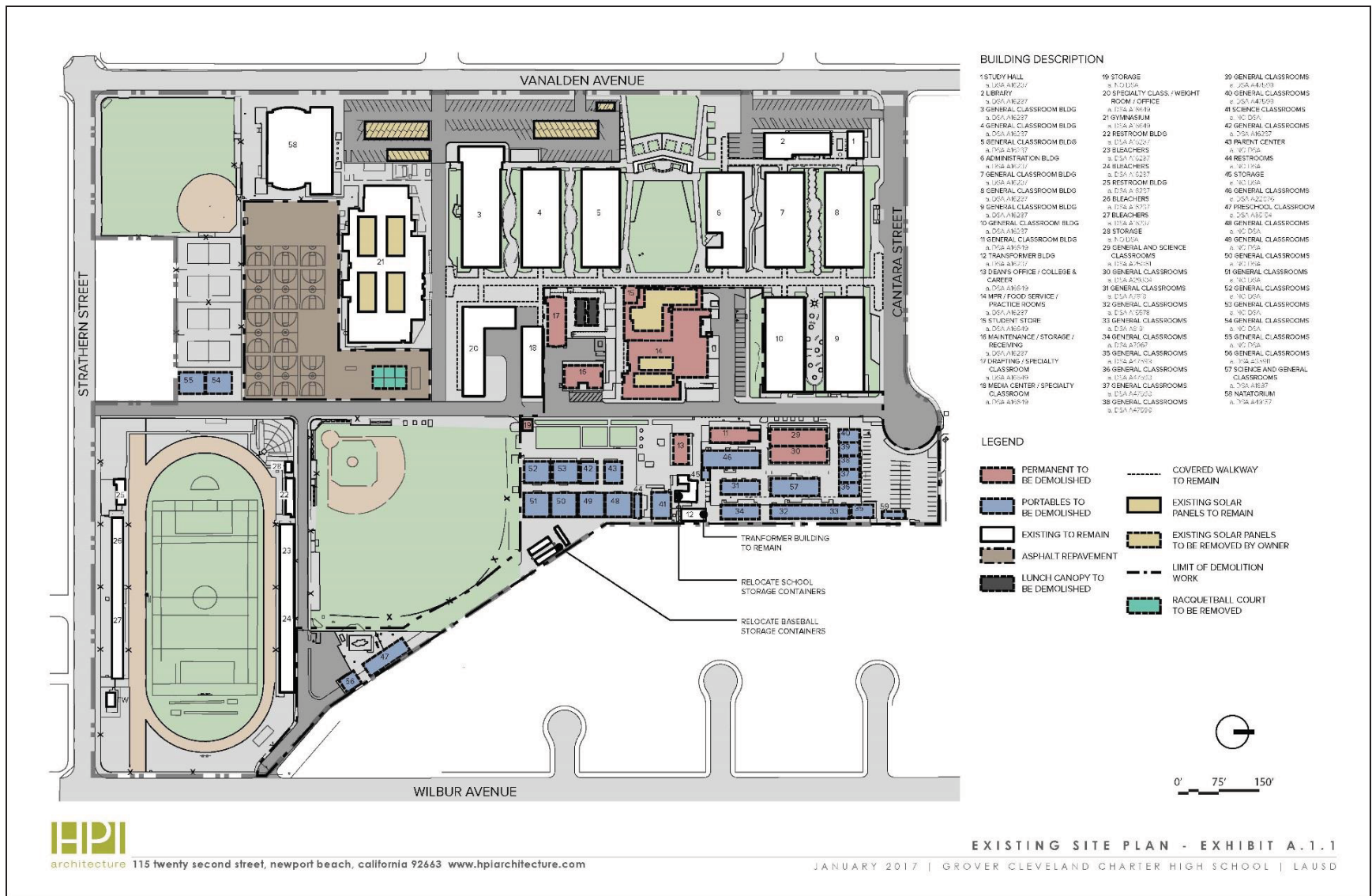


Figure 1 - Project Location Map

**TRAFFIC STUDY TECHNICAL MEMORANDUM
CLEVELAND CHARTER HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT**



BUILDING DESCRIPTION

- | | | |
|---|--|--|
| 1 STUDY HALL
a. USA A16227 | 19 STORAGE
a. NO DSA | 39 GENERAL CLASSROOMS
a. USA A41033 |
| 2 LIBRARY
a. DSA A16227 | 20 SPECIALTY CLASS / WEIGHT ROOM / OFFICE
a. USA A 9619 | 40 GENERAL CLASSROOMS
a. USA A41033 |
| 3 GENERAL CLASSROOM BLDG
a. DSA A16227 | 21 GYMNASIUM
a. USA A 9619 | 41 SCIENCE CLASSROOMS
a. NO DSA |
| 4 GENERAL CLASSROOM BLDG
a. DSA A16227 | 22 RESTROOM BLDG
a. USA A16227 | 42 GENERAL CLASSROOMS
a. USA A16227 |
| 5 GENERAL CLASSROOM BLDG
a. USA A16227 | 23 BLEACHERS
a. USA A16227 | 43 PARENT CENTER
a. NO DSA |
| 6 ADMINISTRATION BLDG
a. USA A16227 | 24 BLEACHERS
a. USA A16227 | 44 RESTROOMS
a. NO DSA |
| 7 GENERAL CLASSROOM BLDG
a. USA A16227 | 25 RESTROOM BLDG
a. USA A16227 | 45 STORAGE
a. NO DSA |
| 8 GENERAL CLASSROOM BLDG
a. DSA A16227 | 26 BLEACHERS
a. USA A16227 | 46 GENERAL CLASSROOMS
a. USA A16227 |
| 9 GENERAL CLASSROOM BLDG
a. DSA A16227 | 27 BLEACHERS
a. USA A16227 | 47 PRESCHOOL CLASSROOMS
a. USA A16227 |
| 10 GENERAL CLASSROOM BLDG
a. DSA A16227 | 28 STORAGE
a. NO DSA | 48 GENERAL CLASSROOMS
a. NO DSA |
| 11 GENERAL CLASSROOM BLDG
a. DSA A16227 | 29 GENERAL AND SCIENCE CLASSROOMS
a. USA A16227 | 49 GENERAL CLASSROOMS
a. NO DSA |
| 12 TRANSFORMER BLDG
a. USA A16227 | 30 GENERAL CLASSROOMS
a. USA A16227 | 50 GENERAL CLASSROOMS
a. NO DSA |
| 13 DEAN'S OFFICE / COLLEGE & CAREER
a. DSA A16227 | 31 GENERAL CLASSROOMS
a. USA A16227 | 51 GENERAL CLASSROOMS
a. NO DSA |
| 14 MPR / FOOD SERVICE / PRACTICE ROOMS
a. DSA A16227 | 32 GENERAL CLASSROOMS
a. USA A16227 | 52 GENERAL CLASSROOMS
a. NO DSA |
| 15 STUDENT STORE
a. DSA A16227 | 33 GENERAL CLASSROOMS
a. USA A16227 | 53 GENERAL CLASSROOMS
a. NO DSA |
| 16 MAINTENANCE / STORAGE / RECEIVING
a. DSA A16227 | 34 GENERAL CLASSROOMS
a. USA A16227 | 54 GENERAL CLASSROOMS
a. NO DSA |
| 17 DRAPING / SPECIALTY CLASSROOM
a. USA A16227 | 35 GENERAL CLASSROOMS
a. USA A16227 | 55 GENERAL CLASSROOMS
a. NO DSA |
| 18 MEDIA CENTER / SPECIALTY CLASSROOM
a. USA A16227 | 36 GENERAL CLASSROOMS
a. USA A16227 | 56 GENERAL CLASSROOMS
a. NO DSA |
| | 37 GENERAL CLASSROOMS
a. USA A16227 | 57 SCIENCE AND GENERAL CLASSROOMS
a. USA A16227 |
| | 38 GENERAL CLASSROOMS
a. USA A16227 | 58 NATATORIUM
a. USA A16227 |

LEGEND

- PERMANENT TO BE DEMOLISHED
- PORTABLES TO BE DEMOLISHED
- EXISTING TO REMAIN
- ASPHALT REPAVEMENT
- LUNCH CANOPY TO BE DEMOLISHED
- COVERED WALKWAY TO REMAIN
- EXISTING SOLAR PANELS TO REMAIN
- EXISTING SOLAR PANELS TO BE REMOVED BY OWNER
- LIMIT OF DEMOLITION WORK
- RACQUETBALL COURT TO BE REMOVED

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EXISTING SITE PLAN - EXHIBIT A.1.1
JANUARY 2017 | GROVER CLEVELAND CHARTER HIGH SCHOOL | LAUSD

Figure 2 – Existing Site Plan

Proposed Improvements

The proposed project includes demolition, repurposing, new construction, cosmetic upgrades and site improvements to the existing campus. The proposed project includes the removal of nine permanent and 28 portable buildings, the replacement of deteriorated utility lines, and the relocation of existing storage units and hardscape. The existing buildings designated for demolition do not meet the requirements of the school or the minimum LAUSD standards. Currently there are inadequate or nonexistent performing arts spaces which include: theater, dance, choral and music. Similarly, the existing science labs are undersized and lack the equipment necessary to teach 21st-century science. Removing portable buildings would further LAUSD's goal to reduce the number of students using temporary facilities. This will also improve student safety and way-finding on campus.

Depending on the physical condition and the Division of the State Architect closed and certified status of the modular buildings, one of the 28 portable buildings shall be relocated and reused as the new transportation building.

The demolished school buildings would be replaced by seven new buildings, Building A (a 2-story General Classroom Building), Building B (a 3-story General and Science Classroom Building), Building C (a 1-story Food Service Building), Building D (a 1-story Performing Arts Center and Student Store), Building E (Maintenance and Operations Building), Building F (Community Day Care), and Building G (Office). The proposed project also includes site utilities infrastructure upgrades, new asphalt paving for physical education play courts and parking, landscape and hardscape areas, rerouting a pedestrian/energy service road to join Wilbur Avenue and Cantara Street (private), and converting a portion of the pedestrian/energy service road into a pedestrian spine. In addition, existing buildings to remain will require different levels of modernization, including exterior repainting, programmatic access, or complete interior remodeling. Implementation of the proposed project would add approximately 63,310 square feet of new buildings and remodel approximately 42,000 square feet of buildings at an existing campus. Operation of the proposed project would not generate new trips because the project would not increase student enrollment beyond the planned capacity. The proposed new site plan is shown in Figure 3. The following sections describe changes related to traffic and circulation patterns of the proposed project.

Changes to Project Access Points

The school campus is located in a densely developed urban area characterized by residential and commercial land uses. The school has passenger vehicle traffic (personal vehicles), non-motorized traffic (pedestrians and bicyclists), and limited truck traffic for school deliveries on the surrounding roadways. The primary pedestrian access into the campus is located at the north edge along Vanalden Avenue, where there are multiple egress gates in addition to entry at the Administration Building. Access is also located on the north side of the campus along Cantara Street. Cantara Street provides student access to a covered walkway from a vehicular drop-off/pick-up zone. A secondary pedestrian access point is also provided at the southern edge of Strathern Avenue. Many students arriving or departing on foot utilize the crosswalks at Vanalden Avenue and Roscoe Boulevard.

The existing on-campus pedestrian circulation patterns conflict with the vehicular traffic circulation. The existing internal service road divides the campus and creates the potential for vehicle and pedestrian conflicts. At peak periods, safety conflicts occur between students traversing to corner crosswalks, parent pick-up and drop-off along Vanalden Avenue, parking lots located along Vanalden Avenue, and access to Cantara Street.

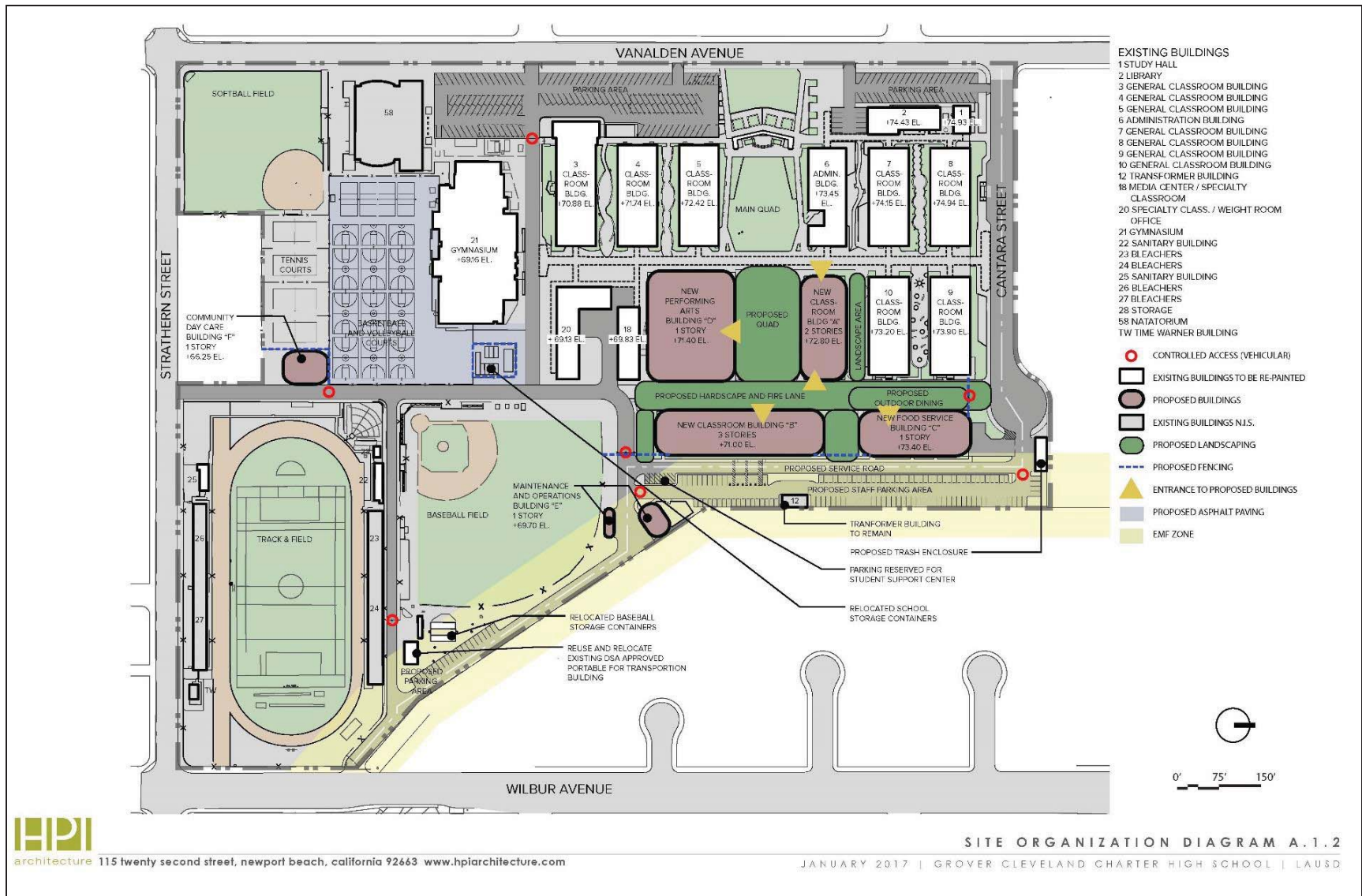


Figure 3 – Proposed Site Plan

The proposed on-campus pedestrian circulation plan does not conflict with the proposed campus service road and limited-access on-campus roadway. The project would improve vehicular and pedestrian access to the site by reconfiguring internal parking and campus circulation. The new service road would be relocated east of the new buildings and along the eastern property boundaries. Limited vehicular access would run along the existing access road near the track and baseball fields (toward Wilbur Avenue), the gymnasium (toward Strathern Street), and near Buildings 3 and 20. The new pedestrian spine will be located in the northeast part of the campus, shown in Figure 4. It will extend from existing Building 18 on the south to Cantara Street on the north. The proposed performing arts center, the new two-story classroom building, and existing Buildings 9 and 10 will be to the west. The proposed three-story classroom building and food service/multi-purpose building will be on the east. The area is approximately 650 feet in length and 40 feet in width. This corridor will also provide emergency vehicle and service access.

The project will alter internal pedestrian and vehicular circulation patterns. Pedestrian access that currently occurs along the existing service road will shift to the proposed hardscape and fire lane areas adjacent to the new buildings, proposed quad and outdoor dining area. However, no changes will occur to external project access points. The existing student drop off and ingress and egress points will remain unchanged.

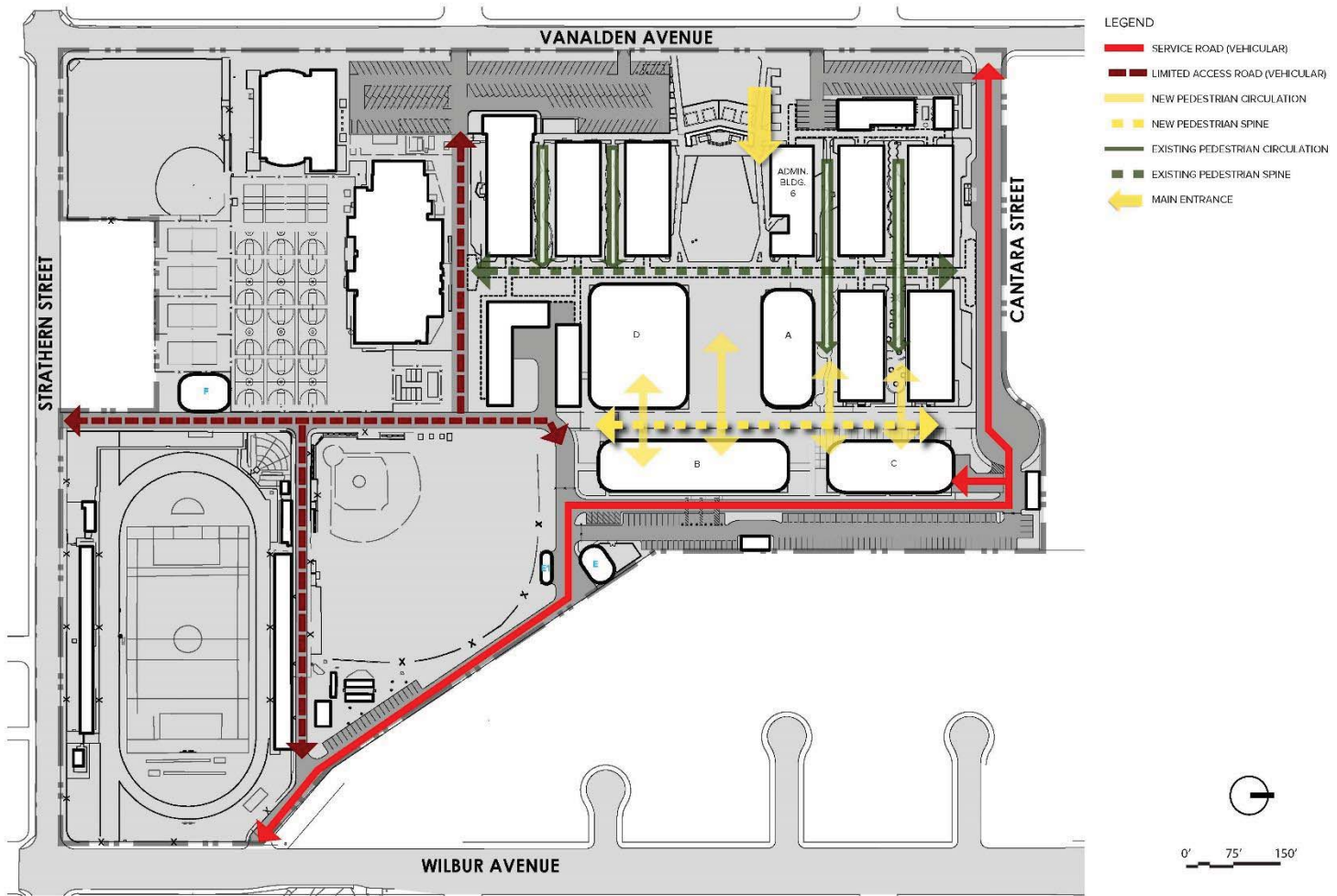
New Pedestrian Spine

The new pedestrian spine will be located in the northeast part of the campus, shown on Figure 5. It will extend from existing Building 18 on the south to Cantara Street on the north. The proposed performing arts center and the new, two-story classroom building, existing Buildings 9 and 10, will be to the west. The proposed three-story classroom building and food service/multi-purpose building will be to the east. The area is approximately 650 feet in length and 40 feet in width. This corridor will also provide emergency vehicle and service access.

The pedestrian spine will provide a strong north-south pedestrian link to the campus. The courtyards between the existing buildings will be tied to the new area with connecting walks to the north-south pedestrian spine. The south part of the pedestrian spine would engage and link to the Performing Arts Center Plaza.

New Service Road

The new service road will be relocated east of the new buildings and along the eastern property boundary. Limited vehicular access would run along the existing access road near the track and baseball fields (toward Wilbur Avenue), the gymnasium (toward Strathern Street), and near Buildings Nos. 3 and 20 (toward Vanalden Avenue).



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CAMPUS CIRCULATION DIAGRAM - EXHIBIT A.1.4
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Figure 4 – Proposed Campus Circulation Plan

Parking

Two additional parking lots are proposed as shown on Figure 4. The existing interior parking lots are planned for demolition. The existing 52 parking spaces affected by the proposed Project would be replaced with 141 new parking stalls. The parking area near the preschool east of the baseball fields currently consists of three parking stalls. With the redesigned service road and the removal of the portable structures serving the preschool, 20 new parking stalls will be provided east of the baseball field. At the northeastern corner of the campus, there are currently 49 parking stalls assigned for faculty. The proposed Project will include 121 new parking stalls assigned to school staff in this area. This parking lot will serve as staff parking during hours of school operation and as public parking during community or sporting events at the school. In addition, this parking lot will serve the new Performing Arts Building.

EXISTING CONDITIONS SUMMARY

Cleveland HS is located in a primarily residential neighborhood with some commercial development along Roscoe Boulevard. The school campus includes permanent and portable buildings, athletic fields, and landscape and hardscape areas. Cantara Street, a private street within the school, runs east-west between the northern portion of the campus and the Miller Career and Transition Center. An access route is situated north-south from Cantara Street through the campus site to Strathern Street.

The school has a planned enrollment capacity of 3,942 students in 9th through 12th grade. The 2015-2016 enrollment was 3,202, which was under the planned capacity by about 740 students. Two additional schools share the site with Cleveland HS. The Cleveland HS Early Education Center occupies a small separate area at the south end of the site and the Joaquin Miller Career and Transition Center is located just north of the access road, along Roscoe Boulevard. The swimming pool, used jointly by the school and the community, occupies the southwest corner of the site.

Cleveland HS has been determined to be eligible as a historic district under the National Register and California Register criteria.

Existing Pedestrian Access

The primary pedestrian access into the Campus is located at the north edge along Vanalden Avenue, there are multiple egress gates in addition to entry at the Administration Building. Access is also located on the north side of campus along Cantara Street. Cantara Street provides student access to a covered walkway from a vehicular drop-off/pick-up zone. A secondary pedestrian access point is provided at Strathern Avenue, the southern edge of the campus. Many students arriving or departing on foot utilize the crosswalks at Vanalden Avenue and Roscoe Boulevard (see Figure 1). There are sidewalks along both sides of Strathern Street, both sides of Wilbur Avenue, both sides of Cantara Street and along the school frontage of Vanalden Avenue. The west side of Vanalden Avenue has intermittent sidewalks with a dirt setback from the street that can be used for parking and pedestrian activity.

With so many students using these crosswalks, campus administration and faculty have expressed safety concerns due to the potential for pedestrian and vehicular conflicts. Pedestrian access that currently occurs along the existing service road would shift to the proposed hardscape and fire lane areas adjacent to the new buildings, proposed quad and outdoor dining area.

Existing Vehicular Access

The primary entrance is located off Vanalden Avenue, giving access to three parking lots within the Campus (see Figure 1). An “L-shaped” interior service road, Cantara Street, connects Vanalden Avenue and Strathern Street. Cantara Street provides access for bus (for both Cleveland Charter HS and the Joaquin Miller Career and Transition Center north of the Campus), emergency, and delivery vehicles as well as the teacher/staff parking located internal to the site. An on-site road from Wilbur Avenue provides access to the sports field and the Community Day Care, located on the eastern edge of the site along the transmission easement. The Humanities Magnet has a significant number of students who arrive and depart via bus and/or private parent-provided transportation.

Bus drop off occurs along Cantara Street. Circulation for school buses exiting the school facilities runs from Cantara Street along the existing service road toward the Wilbur Avenue exit, east of the track and baseball fields. Parent drop off occurs primarily within the neighborhood and along Vanalden Avenue and Cantara Street. Parents dropping off or picking up along Cantara Street generally exit the site via the campus service road to Strathern Street. These circulation patterns result in the following issues: (1) The existing service road splits up within the campus, creating opportunities for vehicular and pedestrian conflicts; and (2) At peak periods, safety conflicts exist between: students traversing to corner crosswalks; parent pick up and drop off along Vanalden Avenue; parking lots located along Vanalden Avenue; and access to Cantara Street.

Parking

Currently there are 256 parking stalls. Based on the number of classrooms at Cleveland Charter HS, there should be a minimum of 305 parking stalls, making the current parking supply insufficient. This determination is based on LAUSD’s parking standards for high schools of 2.5 spaces per classroom. Additionally, several parking stalls are located within the campus interior, which creates vehicular and pedestrian conflicts.

Student Drop-off/Pick-Up Areas

The existing parent-designated student drop-off/pick-up area occurs at the front edge of the school on Vanalden Avenue. This creates traffic congestion and conflict issues with staff parking lots located along Vanalden Avenue. The bus drop-off/pick-up area is located on Cantara Street. Additionally, bus drop off and pick up for the Joaquin Miller Career and Transition Center occurs along this street.

Observed Vehicle Queues

On Thursday, November 10, 2016, morning drop off was observed from 6:45 to 8:00 am and afternoon pick up was observed from 2:30 to 3:30 pm. In both the morning drop off and afternoon pick up, periods of vehicle queues were observed along Vanalden Avenue adjacent to Cleveland Charter HS. When no street parking was available, drivers were noted to momentarily double-park and allow the student to enter or exit the vehicle. Depending on the amount of time used in this process, a queue would often form behind the obstructing vehicle and the students exiting or entering those vehicles. The maximum observed queue was approximately 15 to 20 vehicles in both directions along Vanalden Avenue.

In addition to blocking traffic, the double-parking created a rushed atmosphere in which students hurried to and from the vehicles. In several instances, students were observed crossing the roadway at unexpected locations, entering traffic from within the vehicle queues and creating an unsafe condition.

Vanalden Avenue is a low-volume neighborhood street; almost all traffic observed near the school during the arrival and dismissal periods was associated with the school. In this case, most drivers seemed to be aware of the potential for pedestrians, were prepared for expected queues, and generally operated appropriately.

Existing Vehicle and Pedestrian Observation Summary

The following summarizes the general traffic and travel characteristics observed on November 10, 2016:

- The two primary modes to and from the school were walking and being driven/dropped off and picked up. Some students drove themselves and had other students as passengers.
- Considerable traffic related to the dropping off and picking up of students can be expected 30 minutes prior to and following the beginning and ending of the school day, respectively.
- Passenger loading signage is located along the Vanalden Avenue school frontage from Lanark Street to Cantara Street. Pick-up and drop-off activities occur on all four streets surrounding the campus, with the majority of the dropping off and picking up taking place along Vanalden Avenue.
- The majority of students walking to and from school were observed at the intersection of Roscoe Boulevard and Vanalden Avenue, and crossing Cantara Street to the school entrance.
- Buses were observed dropping off students along Vanalden Avenue and Cantara Street in the morning. During the afternoon, buses were picking up students along Cantara Street and leaving the school using the service road to Wilbur Street.
- Queue lengths were long but it appeared that most drivers understood that a significant number of students and pedestrians would be present.
- No school zone signage or markings were observed.
- Pedestrian and vehicle conflict is prominent at the intersection of Vanalden Avenue and Cantara Street during the dropping off and picking up periods.

Street System Summary

Characteristics of the existing street system in the project area are described in the following sections.

Existing Roadways

- Roscoe Boulevard is an east-west roadway located north of the campus and is designated as Boulevard II (Major Highway). It has three lanes in each direction in the project vicinity and the posted speed limit is 40 mph. Sidewalks are present on both sides of Roscoe Boulevard.
- Vanalden Avenue is a north-south roadway located west of the campus and is designated as a Collector Street. It has one lane in each direction in the Project vicinity and the posted speed limit is 30 mph. The primary entrance is located off Vanalden Avenue, which provides access to three parking lots within the campus. Parent drop off occurs primarily within the neighborhood and along Vanalden Avenue and Cantara Street. Paved sidewalks are on the east side of Vanalden Avenue; the west side has intermittent sidewalks with a dirt setback that can be used for parking and pedestrian activity.

- Strathern Street is an east-west roadway located south of the campus and is designated as a Collector Street in this area. It has one lane in each direction in the project vicinity and no posted speed limit was observed. 15-minute parking during school days is posted on the north side of Strathern. Paved sidewalks are present on both sides of Strathern Street.
- Cantara Street is an interior service road within the school and runs east-west on the northern portion of the campus. It has one lane in each direction. Cantara Street connects Vanalden Avenue and Strathern Street. Cantara Street provides access for bus (for both Cleveland HS and the Joaquin Miller Career and Transition Center north of the campus), emergency, and delivery vehicles, as well as teacher and staff parking located internal to the site. Bus drop off occurs along Cantara Street. Circulation for school buses exiting the school facilities runs from Cantara Street along the existing service road toward the Wilbur Avenue exit, east of the track and baseball fields. Parents dropping off or picking up along Cantara Street generally exit the site via the campus service road to Strathern Street. Paved sidewalks are located on both sides of Cantara Street
- Wilbur Avenue is a north-south roadway located east of the campus and is designated as Avenue II. It has two lanes in each direction in the project vicinity and the posted speed limit is 40 mph. Wilbur Avenue provides access to the sports field and the Community Day Care, and is located on the eastern edge of the site along the transmission easement. The Humanities Magnet has a significant number of students who arrive and depart via bus and/or private parent-provided transportation. Paved sidewalks are present on both sides of Wilbur Avenue.

Intersection Controls

- **Roscoe Boulevard at Vanalden Avenue** is controlled by traffic signals and has yellow basic school crosswalks (solid lines marking both edges of the crosswalk).
- **Vanalden Avenue at Cantara Street (east)** is controlled by a stop sign at Cantara. No crosswalks are present.
- **Vanalden Avenue at Cantara Street west** is controlled by 3-way stop signs for the northbound and southbound traffic on Vanalden and westbound traffic on Cantara. A yellow basic school crosswalk is on the Vanalden northbound approach.
- **Vanalden Avenue at Lanark Street** is controlled by 3-way stop signs for the northbound and southbound traffic on Vanalden Avenue and westbound traffic on Lanark Street. A yellow basic school crosswalk is on the Vanalden southbound approach.
- **Vanalden Avenue at Strathern Street** is controlled by 4-way stop signs and has yellow basic school crosswalks on three of the four crossings, but not on the northbound approach.
- **Wilbur Avenue at Strathern Street** is controlled by traffic signals and has yellow basic school crosswalks on three sides and has a yellow school crosswalk (horizontal stripes) on the west approach along Strathern Street.

Traffic Counts

Vehicle, pedestrian, and bicycle counts (see Appendix B for raw count data) were conducted on Wednesday, November 16, 2016 from 6:30 AM to 8:30 AM and 2:30 PM to 4:30 PM at ten key locations (see Figure 5) on the campus:

1. Roscoe Boulevard at Vanalden Avenue

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2. Vanalden Avenue at Cantara Street east
3. Cantara Street at Driveway 1
4. Vanalden Avenue at Cantara Street west
5. Vanalden Avenue at Driveway 2
6. Vanalden Avenue at Lanark Street
7. Vanalden Avenue at Strathern Street
8. Strathern Street at Service Road
9. Wilbur Avenue at Driveway 4
10. Wilbur Avenue at Strathern Street

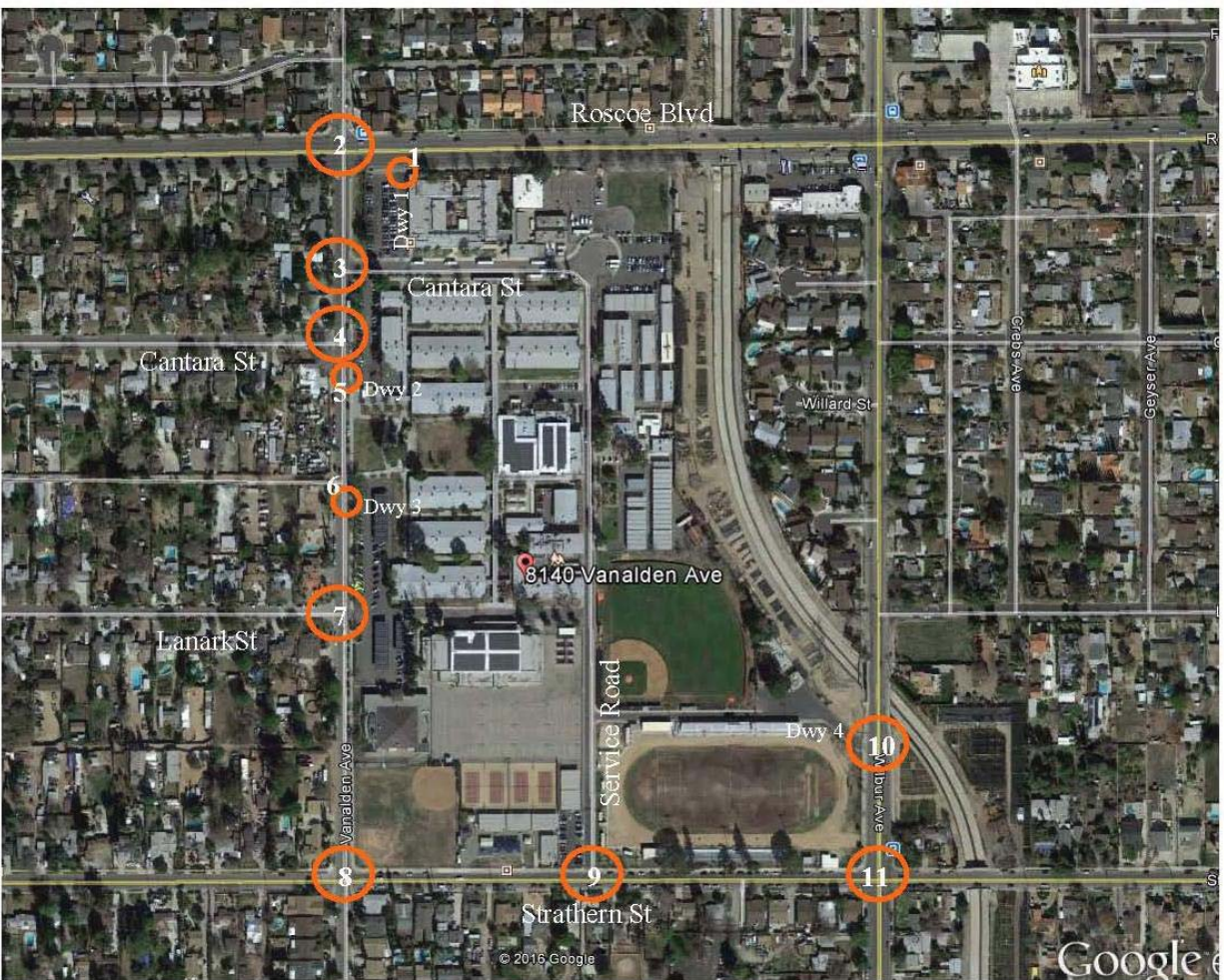


Figure 5 – Traffic Count Locations

The average AM peak for vehicles, bicycles and pedestrians ranged from 7:00-7:30 AM with one exception at Cantara and Driveway 1 with a peak of 6:45 AM. The PM peak was generally between 2:45 and 3:00 PM with two exceptions of 3:15 PM (Wilbur Avenue at Driveway 4 and Wilbur Avenue at

Strathern Street). In addition, pick-up and drop-off counts (see Appendix B) were conducted on Cantara Street, Vanalden Avenue and Strathern Street between 6:30 and 8:15 AM and between 2:30 and 4:15 PM.

The drop offs peaked at both 7:15 and 7:45 AM and the pick ups peaked at 3:15 PM.

CONSTRUCTION IMPACTS

This section documents project-generated traffic impacts during the peak construction phase on the surrounding transportation system and at the study intersections. The additional traffic generated by the construction activities would be temporary, and would last through the phases of the conservatively estimated 3-year construction period. The proposed project would not increase the existing number of planned enrollment, nor would it add additional uses, and therefore it would not generate new (permanent) traffic to the study area.

Workers' Commute

Construction of the proposed project would include on-site demolition, excavation, stockpiling, and grading activities. In addition, trucks would intermittently deliver materials to the site. According to LAUSD's Best Management Practices, LAUSD shall require its contractors to submit a construction worksite traffic control plan to the LADOT for review prior to construction. The plan will show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties. LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. As required by LAUSD, applicable transportation-related safety measures shall be implemented during construction.

Approximately 40-50 workers are expected at the construction site each day and are expected to work between 7:00 AM and 4:00 PM five days per week. Haul routes will be determined by the design-build team and will be reviewed and approved by LAUSD and LADOT prior to the operation commencement.

In addition, these construction workers would be commuting from within the region and are already using the proximal roadways. The surrounding roadways would be able to support this increase in traffic from construction workers and truck activity. Potential project-related construction impacts would be mitigated by compliance with LAUSD Standard Conditions and incorporation of project design features, such as limiting construction-related trucks to off-peak commute periods.

LAUSD Standard Condition SC-T-2 requires compliance with the LAUSD School Design Guide³ during the project design phase and addresses the following regulations related to traffic: parking space requirements, general parking guidelines, vehicular access and pedestrian safety, and parking structure security. SC-T-4 would also be implemented prior to construction to further reduce potential construction-related traffic impacts:

SC-T-2: School Design Guide. Vehicular access and parking shall comply with Section 2.3, Vehicular Access and Parking of the School Design Guide, January 2014. The Design Guide contains the following regulations related to traffic:

- Parking requirements

³ LAUSD School Design Guide, July 2015

**TRAFFIC STUDY TECHNICAL MEMORANDUM
CLEVELAND CHARTER HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT**

- General parking guidelines
- Vehicular Access and Pedestrian Safety
- Parking Structure Security

SC-T-4: LAUSD shall require its contractors to submit a construction worksite traffic control plan to the Los Angeles Department of Transportation (LADOT) for review prior to construction. The plan will show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties. LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. As required by the California Department of Transportation (Caltrans), applicable transportation-related safety measures shall be implemented during construction.

The comprehensive modernization includes building demolition, new construction, remodeling, modernizations, upgrades, and reconfiguration. It is anticipated that the project would be built in two phases spanning approximately 36 months, from the 4th quarter of 2018 to the 4th quarter of 2021, and would generate construction-related trips from the work crew, haul trips, and equipment and materials delivery. According to Section 41.40 of the Los Angeles Municipal Code, construction or repair work is allowed between 7:00 AM and 9:00 PM, Monday through Friday, and between 9:00 AM and 6:00 PM on Saturdays.

Throughout construction, the size of the work crew at the school each day would vary depending on the construction phase and the different construction activities taking place. The highest number of worker trips would occur during the overlapping building construction and architectural coating activities in phase 1, with an anticipated maximum of 50 worker trips per day.⁴ Compared to the traffic generated by the school with 3,942 students (estimated at 6,741 ADT) (see Table 1), 50 worker trips per day is negligible.

Table 1 Existing Campus Trip Generation

Trip Generation Rates									
Land Use	ITE Code	Unit	Trip Generation Rates¹						
			Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
High School	530	Students	1.71	0.29	0.14	0.43	0.06	0.07	0.13
Trip Generation									
Land Use	Number of Students	Daily	Trip Generation						
			AM Peak Hour			PM Peak Hour			
			In	Out	Total	In	Out	Total	
High School	3,942	6,741	788	552	1,695	237	244	454	
Total	3,942	6,741	788	552	1,695	237	244	454	

¹ Trip generation rates for peak hour of adjacent streets, per the ITE Trip Generation Manual 9th Edition.

⁴ Worker trips based on California Emissions Estimator Model (CalEEMod), version 2016.3.1.

Additionally, on most days the number of workers would be less. Based on the anticipated construction schedule, construction workers are expected to arrive at the school between 6:00 AM and 7:00 AM (before peak morning commute hours). Construction workers are not all likely to arrive at the construction site within the same hour, nor would they all leave the site at the same time. Importantly, construction worker trips and construction haul trips would not occur at the same time because workers would arrive before 7:00 AM and hauling cannot start until 7:00 AM. Typical construction hours end after 4:00 PM, after student dismissal times.

Parking for workers is anticipated to be provided in the staging area during all phases of construction. Construction workers would not be allowed to park on local streets and therefore would not affect street parking. Construction worker traffic would not significantly impact nearby roadways.

Construction Haul Trips

Construction would include hauling of asphalt demolition debris, building demolition debris, relocatable buildings, equipment, and materials. The highest number of haul trips per day would occur during site preparation in Phase 1 and Phase 2. Site Prep/Modernization activities in each phase would export approximately 2,147 cubic yards of asphalt and concrete debris, for a total of 184 truckloads.⁵ Demolition of existing buildings would generate another 145 truckloads of building debris in each phase, for a total of about 329 haul truck trips per phase. The anticipated three-month schedule for demolition and site preparation would require an average of about 5 truckloads of export per day, for a total of 5 trucks inbound and 5 trucks outbound from the construction site per day.⁶

Compared to the traffic generated by the school with 3,942 students (estimated at 6,741 ADT⁷), 55 trips (50 worker round-trips per day and average of 5 truck round-trips per day) would be negligible. Additionally, truck trips would be spread out throughout the workday and would occur during non-peak traffic periods in accordance with LAUSD Standard Condition of Approval SC-T-4.

Temporary delays in traffic may occur due to oversized vehicles traveling at lower speeds on streets. Such delays would be occasional and of short duration. The temporary traffic delays would only occur during a relatively short period of two months during Phase 1 and two months during Phase 2. During the 12-month building construction period, there would be traffic from an estimated 12 delivery trucks per day. Given the small number of trips per day and the duration of the construction phases, these temporary delays are considered less than significant.

To minimize potential conflicts between construction activity and street traffic, a truck haul program would be submitted to the City for review and approval. Construction equipment, materials traffic, and haul trucks would be restricted to truck routes approved by the City of Los Angeles Department of Building and Safety. These do not include neighborhood streets.

Construction vehicles would cause only temporary and intermittent increases in traffic on area roadways, and would not contribute to a significant increase in traffic volumes. Construction traffic would be less than significant.

⁵ 14 cubic yards per truckload.

⁶ Three months equates to 65 working days.

⁷ 2001-10 Traffic Volume Book. <http://ladot.lacity.org/what-we-do/traffic-volume-counts/current-count-data>.

OPERATION IMPACTS

As stated earlier, the proposed project would not increase the planned enrollment of the school, therefore, no new trip generation would occur. No operation impacts are anticipated.

PEDESTRIAN ACCESS AND VEHICLE CIRCULATION IMPACTS

Pedestrian access to the school during the construction phase would be minimally altered and any temporary changes to pedestrian access during construction would be completed as outlined in a worksite traffic control plan for the proposed project (per SC-T-4). The new parking lots and campus entrances/exits would be designed per the requirements of LAUSD and the LADOT. Construction vehicles accessing the campus would avoid drop off and deliveries during the start and end of the school day. Further construction-related access and traffic specifics would be coordinated with the campus administrators, LAUSD's Transportation Branch, and Office of Environmental Health and Safety and will be detailed in the worksite traffic control plan which is described in SC-T-4.

- SC-T-4** LAUSD shall require its contractors to submit a construction worksite traffic control plan to the LADOT for review prior to construction. The plan will show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. As required by Caltrans, applicable transportation-related safety measures shall be implemented during construction.

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.

RECOMMENDATIONS

The following recommendations are provided for consideration as project design features:

- Additional crosswalk markings and signage are recommended at Cantara Street.
- Additional school zone striping and signage should be installed along Vanalden Avenue and Strathern Street.
- As part of the project design features, appropriate sight distance provisions should be made at the parking lot access driveways.
- Pedestrian crossing control should be installed at the Cantara Street and Vanalden Avenue intersection.
- Uncontrolled crossings should be identified clearly with well-painted pavement markings, warning signs, or other enhanced treatments such as Rectangular Rapid Flash Beacons or raised crosswalks that alert drivers to the crossing location.

PERSONS CONSULTED

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APPENDIX A

**Los Angeles Unified School District
Office of Environmental Health and Safety
Traffic and Pedestrian Safety Requirements for New Schools**

**Los Angeles Unified School District
Office of Environmental Health and Safety
Traffic and Pedestrian Safety Requirements for New Schools**

The purpose of this document is to identify performance requirements for the selection and design of school sites to minimize potential pedestrian safety risks to students, staff, and visitors at LAUSD schools. Exceptions to these requirements can be made, if supported by traffic/safety evaluations and approved by OEHS.

Site Selection Considerations

- a) In selection of proposed school sites, consideration should be made to the proposed site's ability to accommodate onsite bus and passenger loading, if needed.
- b) Proposed school sites should have multiple points of egress to facilitate offsite evacuation in the event of an emergency.

Bus and Passenger Loading Areas

- a) The passenger loading area (student drop-off and pick-up areas) shall be located so as to not impede traffic flow. When feasible, the passenger loading area shall be located off "major streets." A major street is defined as Major or Secondary by the City and characterized with a 90-foot or greater right-of-way.
 - 1. When the placement of a passenger loading area along a "major street" is unavoidable, an interior onsite loading area is required.
 - 2. When the placement of a passenger loading area is on a "non-major street," a minimum 8-foot wide curb cut is required for the loading of passengers. A curb cut may not be required if the total width of the street is greater than 44 feet (curb-to-curb) and un-restricted street parking is already available at the designated loading area.
- b) A minimum of an 8-foot wide sidewalk should be provided along all designated loading areas.
- c) School access driveways and passenger loading areas shall be separated by a minimum distance of 60 feet to minimize passenger loading activities that may impede the flow of traffic and circulation into and out of school access driveways.
- d) Bus loading areas shall not overlap with passenger loading areas.
- e) When feasible, bus loading areas shall not be located along the main school entrance in order to minimize the potential for buses to impede passenger loading activities.
- f) All passenger loading areas shall be clearly marked and signed.
- g) If surface parking is provided, parking stalls shall not be located in a manner such that vehicles cannot back into bus or passenger loading areas. Island fencing or curbs may be used to separate parking areas from loading/unloading areas.
- h) Buses shall not pass through parking areas to enter or exit the school site unless a barrier is provided that prevents vehicles from backing directly into the bus loading areas.

Vehicle Access

- a) "Right Turn Only" controls are required if turning movements have the potential to create safety hazards or traffic congestion.
- b) School site access ways shall be located and designed in concert with passenger loading areas and the dominant existing traffic flow in the area to promote safe and orderly turning movements and pedestrian crossings.
- c) Vehicle access, including driveways, and service roads to the school site shall, where feasible, be aligned with opposing streets to form four way intersections with sufficient traffic controls.
- d) Delivery and service areas shall be located to provide vehicular access that does not jeopardize the safety of students and staff:

**Los Angeles Unified School District
Office of Environmental Health and Safety
Traffic and Pedestrian Safety Requirements for New Schools**

1. Delivery vehicles shall have direct access from the street to the delivery area without crossing over playground or field areas or interfering with bus or passenger loading areas.
2. Trash pickup is fenced or otherwise isolated and away from foot traffic areas.

Pedestrian Routes to School

- a) "Safe Routes to School" maps shall be prepared and distributed by the LAUSD or appropriate City entity to parents and students prior to opening of new schools.
- b) The traffic and pedestrian safety studies shall identify the need for sidewalks, crosswalks, bike paths, crossing guards, pedestrian and traffic signals, stop signs, warning signs, and other pedestrian access measures to ensure separation between pedestrians and vehicles along potential pedestrian routes and to ensure a safe pedestrian route is provided to the site. Problematic pedestrian routes such as those intersecting railroads or drainage canals not on school property shall be identified to the controlling agency or entity and appropriate mitigation measures shall be requested.

APPENDIX B

Existing Traffic Counts

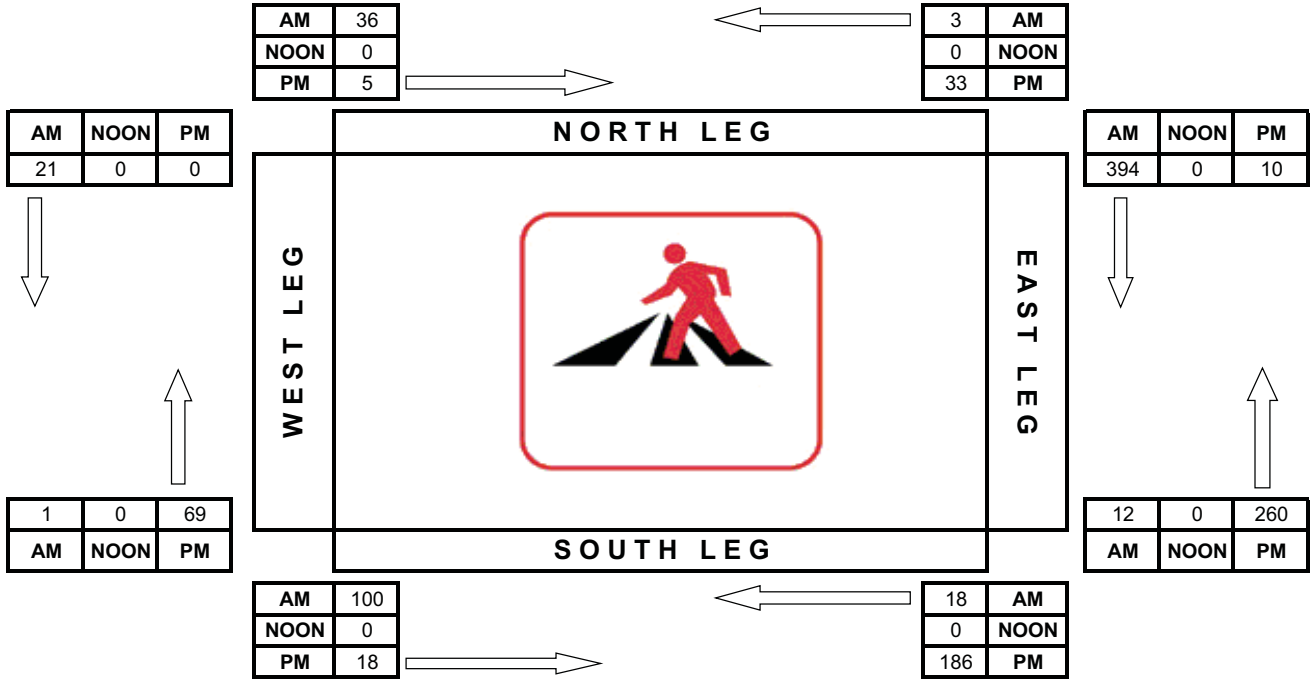
PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Pedestrian Count Peak Hour

PROJECT#: 16-5754-001
 N/S Street: Vanalden Ave
 E/W Street: Roscoe Blvd
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30



PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Bicycle Count Peak Hour

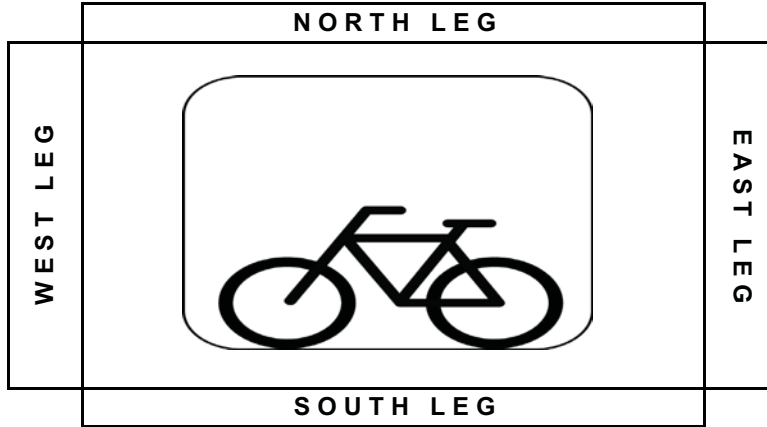
PROJECT#: 16-5754-001
 N/S Street: Vanalden Ave
 E/W Street: Roscoe Blvd
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30

AM	0	0	0
NOON	0	0	0
PM	0	1	0

AM	NOON	PM
0	0	0
2	0	4
1	0	3



AM	NOON	PM
1	0	0
1	0	2
1	0	0

AM	0	0	0
NOON	0	0	0
PM	0	0	4

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5754-001
 N/S Street: Vanalden Ave
 E/W Street: Roscoe Blvd
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

A M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
6:30 AM	1	0	3	0	0	5	0	0
6:45 AM	0	2	2	2	1	20	1	2
7:00 AM	0	0	3	1	2	26	1	1
7:15 AM	8	1	14	1	0	70	0	3
7:30 AM	17	2	46	5	6	130	0	7
7:45 AM	11	0	37	11	4	168	0	10
8:00 AM	1	1	5	1	5	14	0	0
8:15 AM	0	1	0	0	3	2	0	0
TOTALS	38	7	110	21	21	435	2	23

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:30 AM	0	0	0	0	0	0	0	1	0	0	1	0
6:45 AM	0	0	0	0	0	0	0	1	0	0	1	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	1	0	0	0
7:30 AM	0	0	0	0	0	0	0	1	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	1	0	1	1	0
8:00 AM	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
TOTALS	0	0	0	0	0	0	0	4	1	1	3	1

P M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
2:30 PM	3	2	0	0	3	2	0	0
2:45 PM	0	0	0	1	3	0	0	0
3:00 PM	2	20	3	110	171	4	43	0
3:15 PM	0	11	3	61	71	3	22	0
3:30 PM	3	1	10	7	15	1	2	0
3:45 PM	0	1	2	8	3	2	2	0
4:00 PM	0	2	4	6	12	1	0	1
4:15 PM	0	0	3	1	3	4	0	0
TOTALS	8	37	25	194	281	17	69	1

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	1	0	0	0	0	0	0	0
3:00 PM	0	0	3	0	1	0	0	0	2	0	0	0
3:15 PM	0	0	1	0	0	0	0	2	0	0	1	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	2	1	0	1	0
4:00 PM	1	1	0	0	0	0	1	2	0	0	0	0
4:15 PM	0	1	0	0	0	0	0	0	0	0	0	0
TOTALS	1	2	4	0	2	0	1	6	3	0	2	0

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-001

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

NS/EW Streets:	AM												TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	
6:30 AM	10	0	23	25	0	6	0	209	16	24	218	13	544
6:45 AM	31	2	47	13	5	6	5	216	37	51	273	9	695
7:00 AM	19	2	59	32	4	5	3	229	34	27	254	15	683
7:15 AM	40	2	58	22	8	10	8	276	68	37	330	26	885
7:30 AM	40	7	44	41	34	18	12	354	81	24	347	38	1040
7:45 AM	62	8	55	38	33	21	3	354	63	24	356	47	1064
8:00 AM	11	5	24	23	4	12	5	308	14	14	290	11	721
8:15 AM	10	2	21	15	3	7	3	301	12	12	305	14	705
TOTAL VOLUMES :	NL 223	NT 28	NR 331	SL 209	ST 91	SR 85	EL 39	ET 2247	ER 325	WL 213	WT 2373	WR 173	TOTAL 6337
APPROACH %'s :	38.32%	4.81%	56.87%	54.29%	23.64%	22.08%	1.49%	86.06%	12.45%	7.72%	86.01%	6.27%	
PEAK HR START TIME :	7:15 AM												TOTAL
PEAK HR VOL :	153	22	181	124	79	61	28	1292	226	99	1323	122	3710
PEAK HR FACTOR :	0.712			0.710			0.865			0.904			0.872

UTURNS			
NB	SB	EB	WB
		0	0
		0	0
		0	0
		0	0
		1	0
		0	0
		0	0
		0	1

NB	SB	EB	WB
0	0	1	1

CONTROL : Signalized

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-001

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

NS/EW Streets:	PM												TOTAL
	Vanalden Ave NORTHBOUND			Vanalden Ave SOUTHBOUND			Roscoe Blvd EASTBOUND			Roscoe Blvd WESTBOUND			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	
2:30 PM	11	5	18	26	9	10	2	278	15	16	279	11	680
2:45 PM	16	6	20	14	3	8	8	278	23	19	281	27	703
3:00 PM	30	5	41	11	5	14	14	238	28	22	247	28	683
3:15 PM	78	9	71	32	4	15	8	311	35	22	283	26	894
3:30 PM	33	9	39	11	3	9	6	303	12	26	286	13	750
3:45 PM	14	7	25	23	1	5	4	312	18	18	318	22	767
4:00 PM	16	3	18	20	2	6	6	257	13	11	296	19	667
4:15 PM	29	4	31	11	1	6	9	287	15	23	325	13	754
TOTAL VOLUMES :	227	48	263	148	28	73	57	2264	159	157	2315	159	5898
APPROACH %'s :	42.19%	8.92%	48.88%	59.44%	11.24%	29.32%	2.30%	91.29%	6.41%	5.97%	87.99%	6.04%	
PEAK HR START TIME :	300 PM												TOTAL
PEAK HR VOL :	155	30	176	77	13	43	32	1164	93	88	1134	89	3094
PEAK HR FACTOR :	0.571			0.652			0.910			0.916			0.865

UTURNS			
NB	SB	EB	WB
		0	0
		0	1
		0	0
		0	0
		0	0
		1	0
		0	0
		0	0

NB	SB	EB	WB
0	0	1	1

CONTROL : Signalized

ITM Peak Hour Summary

Prepared by:

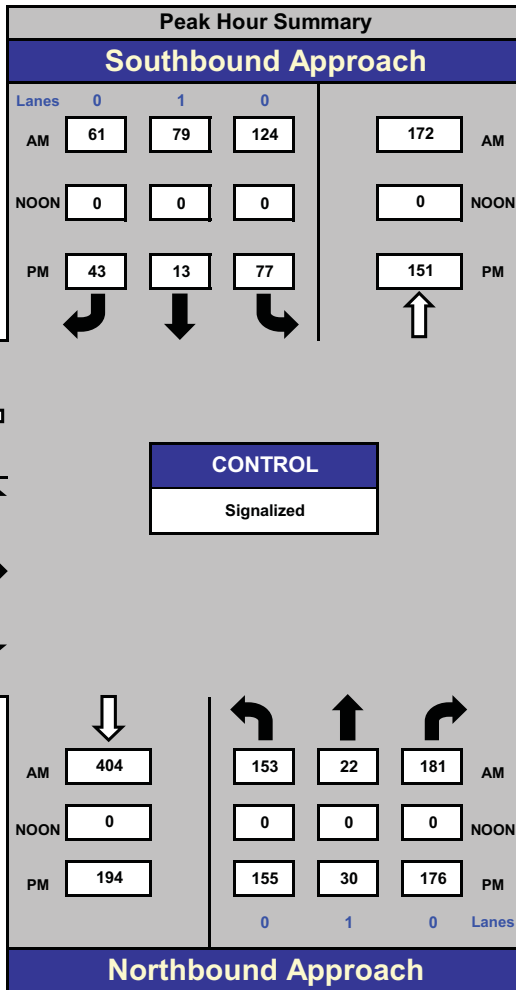


National Data & Surveying Services

Vanalden Ave and Roscoe Blvd, Reseda

Date: 11/16/2016
Day: Wednesday

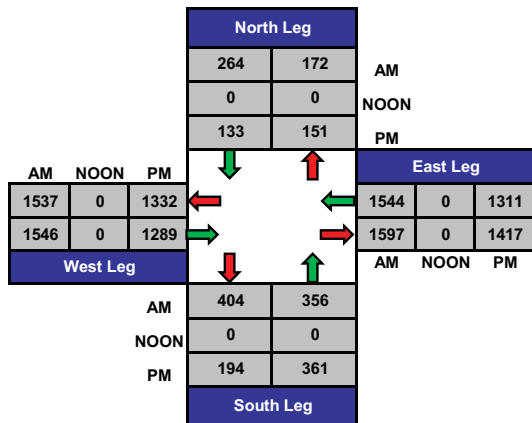
Project #: 16-5754-001
City: Reseda



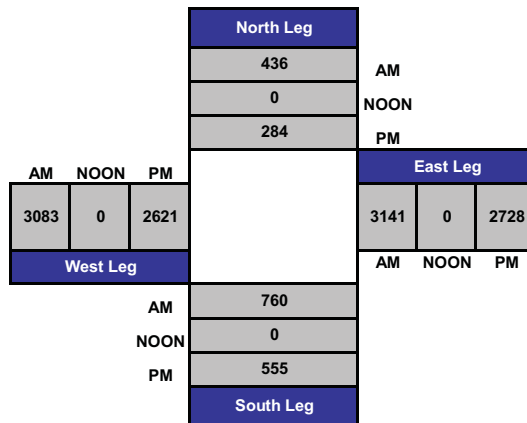
AM Peak Hour	715 AM
NOON Peak Hour	
PM Peak Hour	300 PM

Count Periods	Start	End
AM	6:30 AM	8:30 AM
NOON	NONE	NONE
PM	2:30 PM	4:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-001

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

AM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Roscoe Blvd			Roscoe Blvd			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	
6:30 AM	10	0	20	25	0	4	0	207	16	24	215	11	532
6:45 AM	31	2	47	13	5	6	4	213	37	51	268	9	686
7:00 AM	19	2	57	29	4	5	2	223	33	26	250	15	665
7:15 AM	40	2	57	22	8	10	8	273	66	37	326	25	874
7:30 AM	39	7	44	41	31	18	12	352	80	16	345	37	1022
7:45 AM	61	7	53	38	33	20	3	351	62	19	353	46	1046
8:00 AM	11	5	22	23	3	12	5	306	13	12	287	11	710
8:15 AM	8	2	13	14	3	7	3	296	9	10	302	14	681
TOTAL VOLUMES :	NL 219	NT 27	NR 313	SL 205	ST 87	SR 82	EL 37	ET 2221	ER 316	WL 195	WT 2346	WR 168	TOTAL 6216
APPROACH %'s :	39.18%	4.83%	55.99%	54.81%	23.26%	21.93%	1.44%	86.29%	12.28%	7.20%	86.60%	6.20%	
PEAK HR START TIME :	7:15 AM												TOTAL
PEAK HR VOL :	151	21	176	124	75	60	28	1282	221	84	1311	119	3652
PEAK HR FACTOR :	0.719			0.712			0.862			0.906			0.873

UTURNS			
NB	SB	EB	WB
		0	0
		0	0
		0	0
		0	0
		1	0
		0	0
		0	0
		0	1

NB	SB	EB	WB
0	0	1	1

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-001

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

PM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Roscoe Blvd			Roscoe Blvd			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 1	ET 3	ER 0	WL 1	WT 3	WR 0	
2:30 PM	10	5	17	25	9	9	2	275	13	14	278	10	667
2:45 PM	16	6	20	13	3	8	7	274	23	18	278	27	693
3:00 PM	27	4	28	11	5	14	14	236	28	21	245	27	660
3:15 PM	78	9	70	32	4	15	8	306	34	22	281	25	884
3:30 PM	33	9	37	9	3	9	6	293	12	25	284	13	733
3:45 PM	13	7	24	23	1	5	4	308	18	18	313	22	756
4:00 PM	15	3	18	20	2	6	6	256	13	11	295	19	664
4:15 PM	28	4	29	11	1	6	9	282	15	23	324	13	745
TOTAL VOLUMES :	NL 220	NT 47	NR 243	SL 144	ST 28	SR 72	EL 56	ET 2230	ER 156	WL 152	WT 2298	WR 156	TOTAL 5802
APPROACH %'s :	43.14%	9.22%	47.65%	59.02%	11.48%	29.51%	2.29%	91.32%	6.39%	5.83%	88.18%	5.99%	
PEAK HR START TIME :	300 PM												TOTAL
PEAK HR VOL :	151	29	159	75	13	43	32	1143	92	86	1123	87	3033
PEAK HR FACTOR :	0.540		0.642			0.910			0.918			0.858	

UTURNS			
NB	SB	EB	WB
		0	0
		0	1
		0	0
		0	0
		0	0
		1	0
		0	0
		0	0

NB	SB	EB	WB
0	0	1	1

CONTROL : Signalized

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-001

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

AM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Roscoe Blvd			Roscoe Blvd			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:30 AM	0	0	3	0	0	2	0	2	0	0	3	2	12
6:45 AM	0	0	0	0	0	0	1	3	0	0	5	0	9
7:00 AM	0	0	2	3	0	0	1	6	1	1	4	0	18
7:15 AM	0	0	1	0	0	0	0	3	2	0	4	1	11
7:30 AM	1	0	0	0	3	0	0	2	1	8	2	1	18
7:45 AM	1	1	2	0	0	1	0	3	1	5	3	1	18
8:00 AM	0	0	2	0	1	0	0	2	1	2	3	0	11
8:15 AM	2	0	8	1	0	0	0	5	3	2	3	0	24
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	4	1	18	4	4	3	2	26	9	18	27	5	121
	17.39%	4.35%	78.26%	36.36%	36.36%	27.27%	5.41%	70.27%	24.32%	36.00%	54.00%	10.00%	
PEAK HR START TIME :	7:15 AM												TOTAL
PEAK HR VOL :	2	1	5	0	4	1	0	10	5	15	12	3	58
PEAK HR FACTOR :	0.500			0.417			0.750			0.682			0.873

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-001

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

PM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Roscoe Blvd			Roscoe Blvd			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
	0	1	0	0	1	0	1	3	0	1	3	0	
2:30 PM	1	0	1	1	0	1	0	3	2	2	1	1	13
2:45 PM	0	0	0	1	0	0	1	4	0	1	3	0	10
3:00 PM	3	1	13	0	0	0	0	2	0	1	2	1	23
3:15 PM	0	0	1	0	0	0	0	5	1	0	2	1	10
3:30 PM	0	0	2	2	0	0	0	10	0	1	2	0	17
3:45 PM	1	0	1	0	0	0	0	4	0	0	5	0	11
4:00 PM	1	0	0	0	0	0	0	1	0	0	1	0	3
4:15 PM	1	0	2	0	0	0	0	5	0	0	1	0	9
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	25.00%	3.57%	71.43%	80.00%	0.00%	20.00%	2.63%	89.47%	7.89%	20.00%	68.00%	12.00%	96
PEAK HR START TIME :	300 PM												TOTAL
PEAK HR VOL :	4	1	17	2	0	0	0	21	1	2	11	2	61
PEAK HR FACTOR :	0.324			0.250			0.550			0.750			0.858

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : Signalized

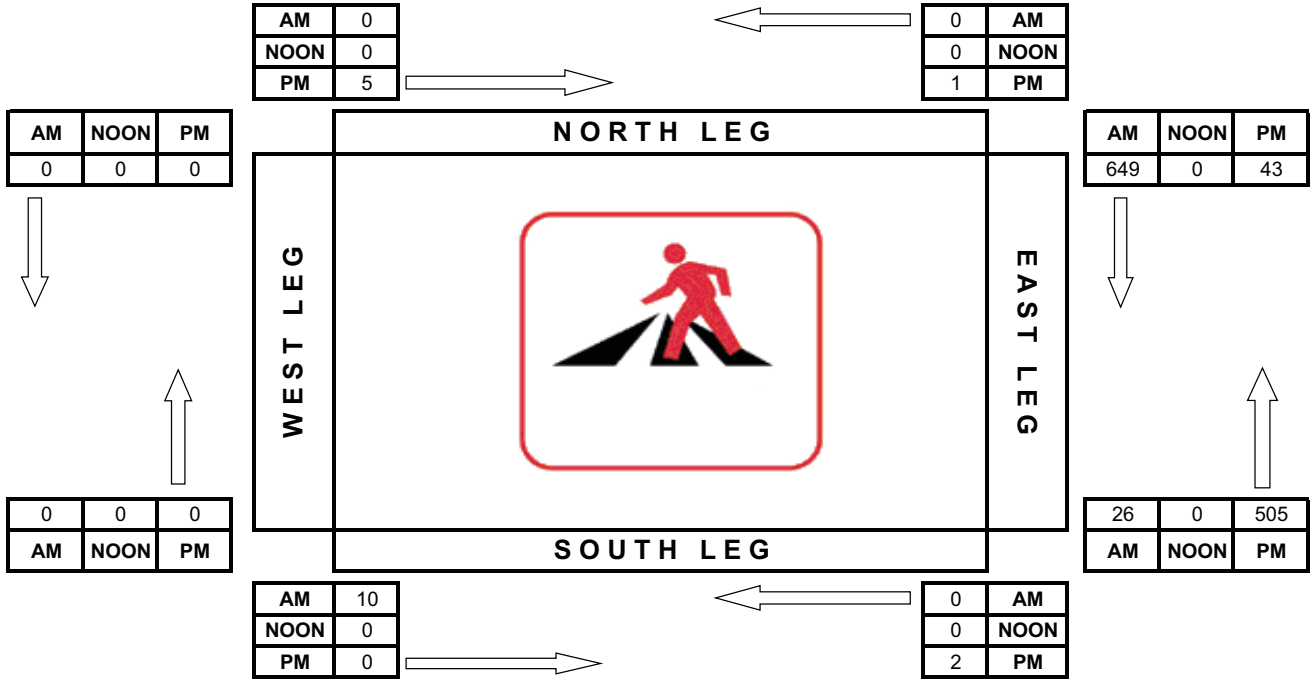
PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Pedestrian Count Peak Hour

PROJECT#: 16-5754-002
 N/S Street: Vanalden Ave
 E/W Street: Cantara St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30



PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Bicycle Count Peak Hour

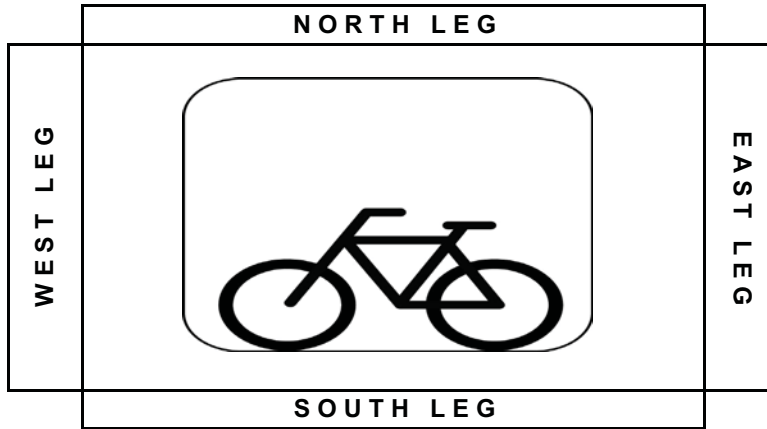
PROJECT#: 16-5754-002
 N/S Street: Vanalden Ave
 E/W Street: Cantara St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30

AM	0	2	3
NOON	0	0	0
PM	0	2	0

AM	NOON	PM
0	0	0
0	0	0
0	0	0



AM	NOON	PM
0	0	4
0	0	0
0	0	4

AM	0	0	1
NOON	0	0	0
PM	0	1	0

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5754-002
 N/S Street: Vanalden Ave
 E/W Street: Cantara St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

A M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
6:30 AM	2	1	1	0	1	7	0	0
6:45 AM	0	0	3	0	1	28	0	0
7:00 AM	0	0	2	0	4	31	0	0
7:15 AM	0	0	0	0	6	101	0	0
7:30 AM	0	0	1	0	3	240	0	0
7:45 AM	0	0	7	0	13	277	0	0
8:00 AM	0	0	0	0	0	22	0	0
8:15 AM	0	0	0	0	5	7	0	0
TOTALS	2	1	14	0	33	713	0	0

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	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
7:30 AM	0	0	1	2	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	1	2	0	0	0	0	0	0	0
8:00 AM	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
TOTALS	0	0	1	3	2	0	0	0	0	0	0	0

P M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
2:30 PM	0	2	0	0	3	2	0	0
2:45 PM	0	0	0	1	6	6	0	0
3:00 PM	0	1	0	1	279	6	0	0
3:15 PM	0	0	0	1	168	7	0	0
3:30 PM	4	0	0	0	37	16	0	0
3:45 PM	1	0	0	0	21	14	0	0
4:00 PM	0	0	0	0	26	15	0	0
4:15 PM	0	0	0	0	14	11	0	0
TOTALS	5	3	0	3	554	77	0	0

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	1	0	0	0	0	0	0	0	0
3:00 PM	0	1	0	0	1	0	0	0	0	4	0	4
3:15 PM	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
3:45 PM	0	0	0	0	1	0	0	0	0	0	0	0
4:00 PM	0	2	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	1	0	0	0	0	0	0	0	0	0	0
TOTALS	0	4	0	1	2	0	0	0	0	4	0	4

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-002

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

NS/EW Streets:	AM												TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
6:30 AM	0	25	6	14	24	0	0	0	0	2	0	10	81
6:45 AM	1	36	7	39	51	0	0	0	0	7	0	44	185
7:00 AM	0	44	14	32	35	0	0	0	0	4	0	32	161
7:15 AM	0	74	7	46	65	0	0	0	0	2	0	28	222
7:30 AM	1	69	25	56	82	0	0	0	0	2	0	28	263
7:45 AM	0	85	4	45	77	0	0	0	0	5	0	34	250
8:00 AM	0	25	1	10	23	0	0	0	0	2	0	13	74
8:15 AM	0	15	2	12	18	0	0	0	0	2	0	18	67
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	0.45%	84.58%	14.97%	40.38%	59.62%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	11.16%	0.00%	88.84%	1303
PEAK HR START TIME :	7:00 AM												TOTAL
PEAK HR VOL :	1	272	50	179	259	0	0	0	0	13	0	122	896
PEAK HR FACTOR :	0.850			0.793			0.000			0.865			0.852

UTURNS			
NB	SB	EB	WB
0			
1			
0			
0			
1			
0			
0			
0			
2	0	0	0

CONTROL : 1-Way Stop (WB)

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-002

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

PM

NS/EW Streets:	Vanalden Ave		Vanalden Ave			Cantara St			Cantara St			TOTAL	
	NORTHBOUND		SOUTHBOUND			EASTBOUND			WESTBOUND				
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
	0	1	0	0	1	0	0	0	0	0	1	0	
2:30 PM	1	17	5	11	28	0	0	0	0	3	0	15	
2:45 PM	0	21	10	11	32	0	0	0	0	6	0	21	
3:00 PM	0	35	2	8	49	0	0	0	0	10	0	54	
3:15 PM	0	115	1	8	53	0	0	0	0	1	0	33	
3:30 PM	0	53	1	9	32	0	0	0	0	10	0	24	
3:45 PM	0	28	1	3	33	0	0	0	0	4	0	18	
4:00 PM	0	22	3	3	24	0	0	0	0	6	0	14	
4:15 PM	0	35	5	2	36	0	0	0	0	7	0	29	
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	1	326	28	55	287	0	0	0	0	47	0	208	952
	0.28%	91.83%	7.89%	16.08%	83.92%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	18.43%	0.00%	81.57%	
PEAK HR START TIME :	245 PM												TOTAL
PEAK HR VOL :	0	224	14	36	166	0	0	0	0	27	0	132	599
PEAK HR FACTOR :	0.513		0.828			0.000			0.621			0.710	

UTURNS			
NB	SB	EB	WB
1	0		
0	0		
0	1		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		

NB	SB	EB	WB
1	1	0	0

CONTROL : 1-Way Stop (WB)

ITM Peak Hour Summary

Prepared by:

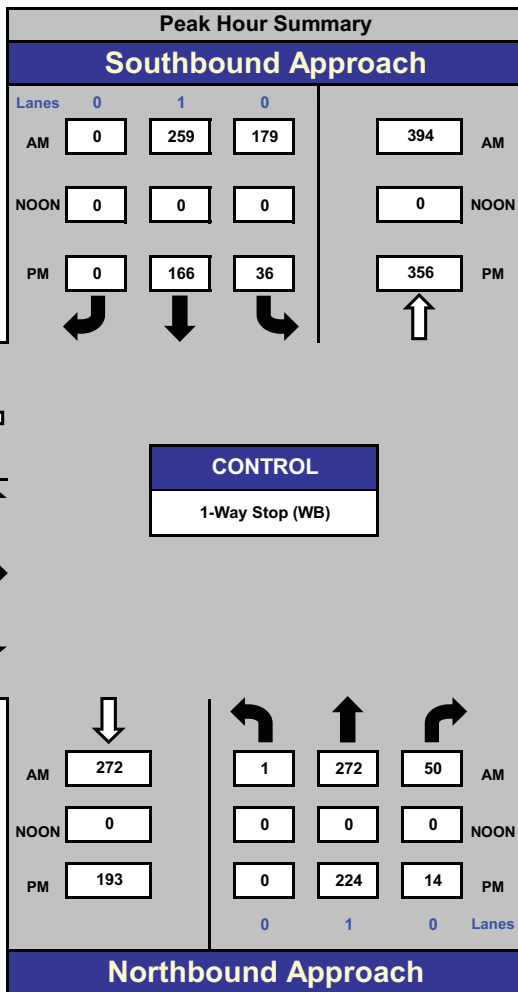


National Data & Surveying Services

Vanalden Ave and Cantara St, Reseda

Date: 11/16/2016
Day: Wednesday

Project #: 16-5754-002
City: Reseda

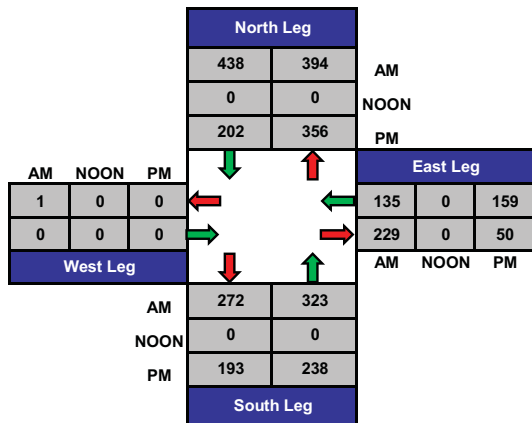


AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	245 PM

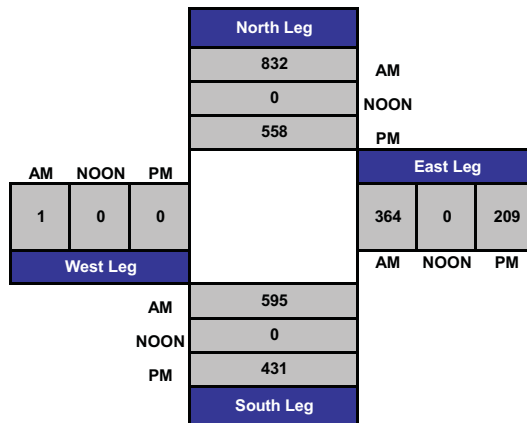


Count Periods	Start	End
AM	6:30 AM	8:30 AM
NOON	NONE	NONE
PM	2:30 PM	4:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-002

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

AM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Cantara St			Cantara St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:30 AM	0	22	6	14	24	0	0	0	0	2	0	10	78
6:45 AM	1	36	7	39	51	0	0	0	0	7	0	44	185
7:00 AM	0	42	14	31	34	0	0	0	0	4	0	32	157
7:15 AM	0	73	7	44	65	0	0	0	0	2	0	28	219
7:30 AM	1	68	16	45	82	0	0	0	0	2	0	28	242
7:45 AM	0	85	2	38	77	0	0	0	0	4	0	30	236
8:00 AM	0	24	1	6	23	0	0	0	0	2	0	11	67
8:15 AM	0	13	0	8	17	0	0	0	0	1	0	10	49
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	0.48%	86.84%	12.68%	37.63%	62.37%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	11.06%	0.00%	88.94%	1233
PEAK HR START TIME :	7:00 AM												TOTAL
PEAK HR VOL :	1	268	39	158	258	0	0	0	0	12	0	118	854
PEAK HR FACTOR :	0.885			0.819			0.000			0.903			0.882

UTURNS			
NB	SB	EB	WB
0			
1			
0			
0			
1			
0			
0			
0			
0			
2	0	0	0

CONTROL : 1-Way Stop (WB)

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-002

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

PM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Cantara St			Cantara St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
2:30 PM	1	17	5	8	27	0	0	0	0	3	0	15	76
2:45 PM	0	21	9	10	32	0	0	0	0	6	0	21	99
3:00 PM	0	35	2	7	49	0	0	0	0	7	0	37	137
3:15 PM	0	115	1	7	53	0	0	0	0	1	0	32	209
3:30 PM	0	52	1	8	32	0	0	0	0	10	0	23	126
3:45 PM	0	27	0	3	33	0	0	0	0	4	0	17	84
4:00 PM	0	21	3	3	24	0	0	0	0	6	0	14	71
4:15 PM	0	32	4	2	36	0	0	0	0	7	0	29	110
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	1	320	25	48	286	0	0	0	0	44	0	188	912
	0.29%	92.49%	7.23%	14.37%	85.63%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	18.97%	0.00%	81.03%	
PEAK HR START TIME :	245 PM												TOTAL
PEAK HR VOL :	0	223	13	32	166	0	0	0	0	24	0	113	571
PEAK HR FACTOR :	0.509												0.683

UTURNS			
NB	SB	EB	WB
1	0		
0	0		
0	1		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
1	1	0	0

CONTROL : 1-Way Stop (WB)

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-002

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

AM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Cantara St			Cantara St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:30 AM	0	3	0	0	0	0	0	0	0	0	0	0	3
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	2	0	1	1	0	0	0	0	0	0	0	4
7:15 AM	0	1	0	2	0	0	0	0	0	0	0	0	3
7:30 AM	0	1	9	11	0	0	0	0	0	0	0	0	21
7:45 AM	0	0	2	7	0	0	0	0	0	1	0	0	14
8:00 AM	0	1	0	4	0	0	0	0	0	0	0	2	7
8:15 AM	0	2	2	4	1	0	0	0	0	1	0	8	18
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	0	10	13	29	2	0	0	0	0	2	0	14	70
	0.00%	43.48%	56.52%	93.55%	6.45%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	12.50%	0.00%	87.50%	
PEAK HR START TIME :	7:00 AM												TOTAL
PEAK HR VOL :	0	4	11	21	1	0	0	0	0	1	0	4	42
PEAK HR FACTOR :	0.375			0.500			0.000			0.250			0.882

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : 1-Way Stop (WB)

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-002

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

PM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Cantara St			Cantara St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
2:30 PM	0	0	0	3	1	0	0	0	0	0	0	0	4
2:45 PM	0	0	1	1	0	0	0	0	0	0	0	0	2
3:00 PM	0	0	0	1	0	0	0	0	0	3	0	17	21
3:15 PM	0	0	0	1	0	0	0	0	0	0	0	1	2
3:30 PM	0	1	0	1	0	0	0	0	0	0	0	1	3
3:45 PM	0	1	1	0	0	0	0	0	0	0	0	1	3
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	3	1	0	0	0	0	0	0	0	0	0	4
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	0	6	3	7	1	0	0	0	0	3	0	20	40
	0.00%	66.67%	33.33%	87.50%	12.50%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	13.04%	0.00%	86.96%	
PEAK HR START TIME :	245 PM												TOTAL
PEAK HR VOL :	0	1	1	4	0	0	0	0	0	3	0	19	28
PEAK HR FACTOR :	0.500			1.000			0.000			0.275			0.683

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : 1-Way Stop (WB)

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-003

Day: Wednesday

City: Reseda

Date: 11/16/2016

NS/EW Streets:	AM												TOTAL
	Dwy 1 NORTHBOUND			Dwy 1 SOUTHBOUND			Cantara St EASTBOUND			Cantara St WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
6:30 AM	7	0	1	0	0	0	4	15	0	0	8	0	35
6:45 AM	16	0	2	0	0	0	1	44	0	0	31	1	95
7:00 AM	7	0	2	0	0	0	9	37	0	0	31	0	86
7:15 AM	4	0	3	0	0	1	15	40	1	0	23	0	87
7:30 AM	6	0	4	0	0	4	14	63	0	0	22	1	114
7:45 AM	3	0	1	0	0	7	17	33	1	0	27	3	92
8:00 AM	7	0	0	1	0	6	6	5	0	0	3	0	28
8:15 AM	5	0	0	0	0	4	4	9	0	0	9	0	31
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	80.88%	0.00%	19.12%	4.35%	0.00%	95.65%	22.01%	77.36%	0.63%	0.00%	96.86%	3.14%	568
PEAK HR START TIME :	645 AM												TOTAL
PEAK HR VOL :	33	0	11	0	0	5	39	184	1	0	107	2	382
PEAK HR FACTOR :	0.611			0.313			0.727			0.852			0.838

UTURNS			
NB	SB	EB	WB
		1	
		0	
		0	
		0	
		0	
		0	
		0	
		0	
		0	

NB	SB	EB	WB
0	0	1	0

CONTROL : No Control

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-003

Day: Wednesday

City: Reseda

Date: 11/16/2016

PM

NS/EW Streets:	Dwy 1		Dwy 1			Cantara St			Cantara St			TOTAL	
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
2:30 PM	4	0	0	0	0	0	0	16	0	0	14	0	34
2:45 PM	6	0	0	0	0	0	0	21	0	1	22	0	50
3:00 PM	5	0	0	0	0	0	0	8	0	0	57	0	70
3:15 PM	11	0	0	0	0	0	0	8	0	0	23	0	42
3:30 PM	12	0	0	0	0	8	5	5	0	0	13	0	43
3:45 PM	5	0	0	0	0	5	1	3	0	0	11	0	25
4:00 PM	9	0	0	0	0	1	1	5	0	0	11	0	27
4:15 PM	14	0	1	0	0	6	0	7	0	0	16	0	44
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	66	0	1	0	0	20	7	73	0	1	167	0	335
	98.51%	0.00%	1.49%	0.00%	0.00%	100.00%	8.75%	91.25%	0.00%	0.60%	99.40%	0.00%	
PEAK HR START TIME :	245 PM												TOTAL
PEAK HR VOL :	34	0	0	0	0	8	5	42	0	1	115	0	205
PEAK HR FACTOR :	0.708			0.250			0.560			0.509			0.732

CONTROL : No Control

UTURNS			
NB	SB	EB	WB
		0	0
		0	1
		0	0
		0	0
		1	0
		0	0
		0	0
		0	0

NB	SB	EB	WB
0	0	1	1

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-003

Day: Wednesday

City: Reseda

Date: 11/16/2016

NOON

NS/EW Streets:	Dwy 1		Dwy 1			Cantara St			Cantara St			TOTAL	
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	0	1	0	0	1	0	0	1	0	0	1	0	
TOTAL VOLUMES :	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	0 AM												TOTAL
PEAK HR VOL :	0	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

UTURNS			
NB	SB	EB	WB
0	0	0	0

CONTROL : No Control

ITM Peak Hour Summary

Prepared by:



National Data & Surveying Services

Dwy 1 and Cantara St, Reseda

Date: 11/16/2016

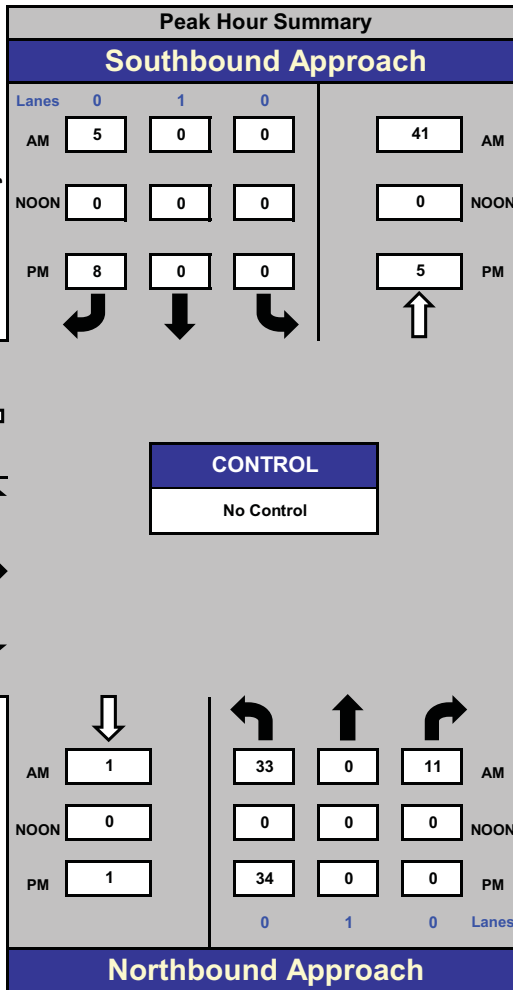
Day: Wednesday

Project #: 16-5754-003

City: Reseda



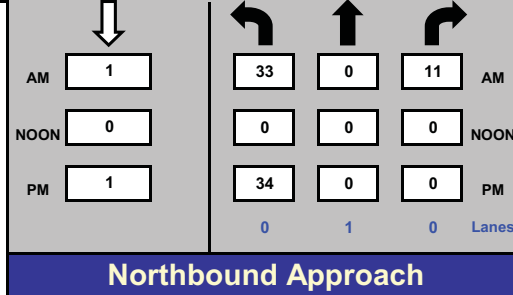
Cantara St



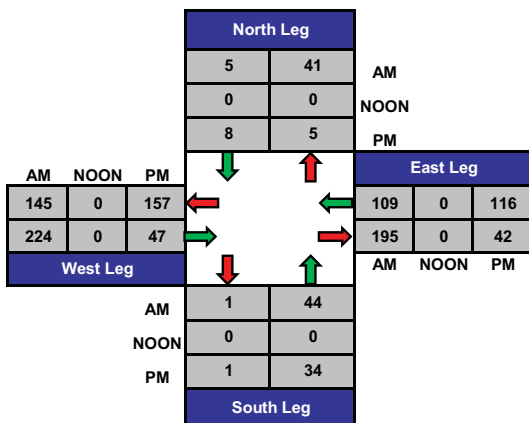
AM Peak Hour	645 AM
NOON Peak Hour	
PM Peak Hour	245 PM



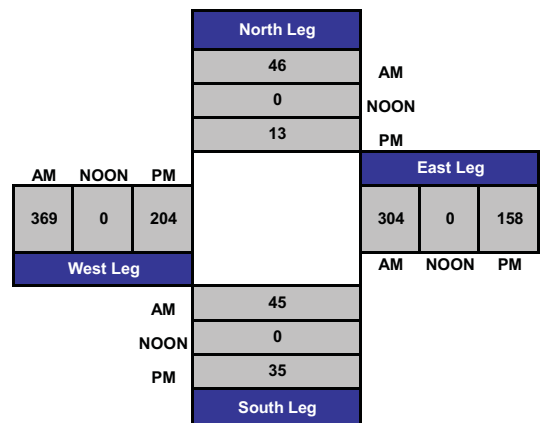
Count Periods	Start	End
AM	6:30 AM	8:30 AM
NOON	NONE	NONE
PM	2:30 PM	4:30 PM



Total Ins & Outs



Total Volume Per Leg



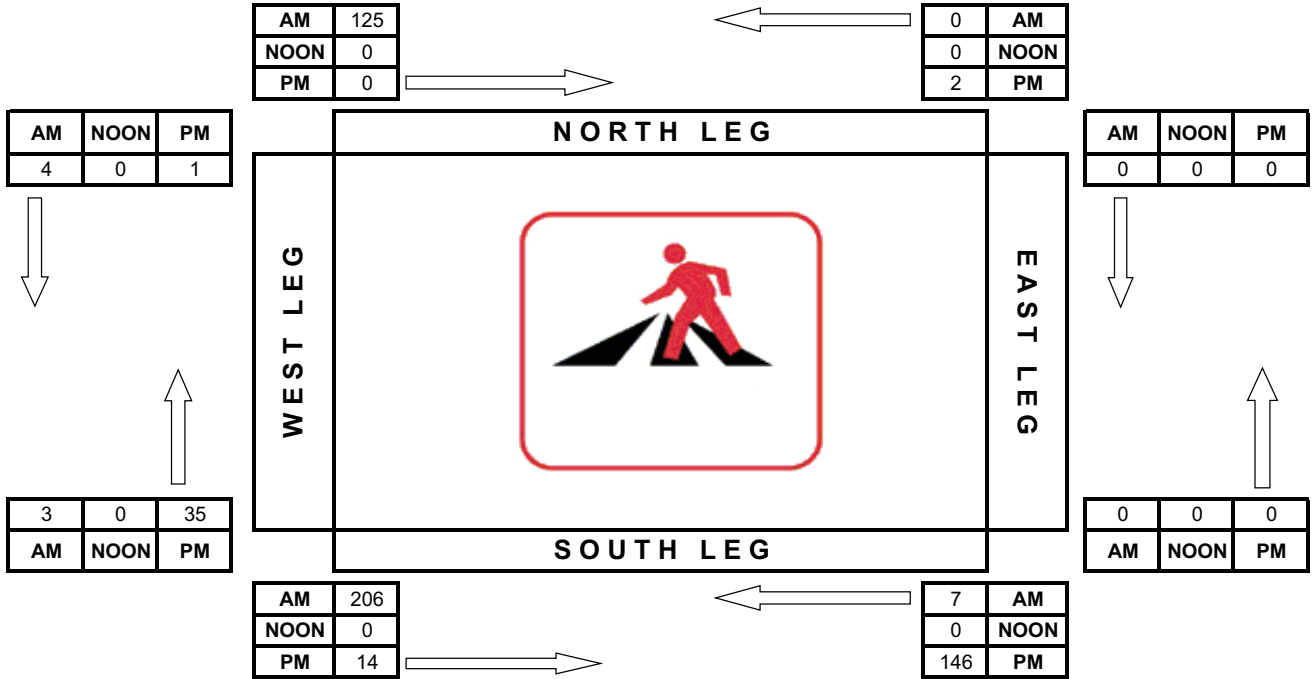
PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Pedestrian Count Peak Hour

PROJECT#: 16-5754-004
 N/S Street: Vanalden Ave
 E/W Street: Cantara St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30



PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Bicycle Count Peak Hour

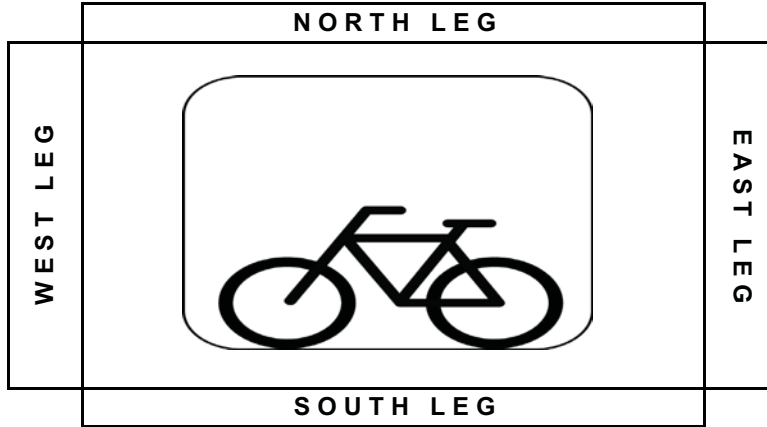
PROJECT#: 16-5754-004
 N/S Street: Vanalden Ave
 E/W Street: Cantara St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30

AM	0	0	0
NOON	0	0	0
PM	0	6	0

AM	NOON	PM
0	0	0
0	0	0
0	0	0



AM	NOON	PM
0	0	0
0	0	0
0	0	0

AM	1	1	0
NOON	0	0	0
PM	0	0	0

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-004

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

NS/EW Streets:	AM												TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:30 AM	2	25	0	0	25	1	7	0	5	0	0	0	65
6:45 AM	4	40	0	0	53	8	7	0	14	0	0	0	126
7:00 AM	6	48	0	0	30	7	10	0	12	0	0	0	113
7:15 AM	8	67	0	0	42	23	15	0	16	0	0	0	171
7:30 AM	11	57	0	0	51	33	36	0	32	0	0	0	220
7:45 AM	7	57	0	0	48	46	34	0	32	0	0	0	224
8:00 AM	4	23	0	0	21	2	3	0	5	0	0	0	58
8:15 AM	4	14	0	0	12	5	2	0	2	0	0	0	39
TOTAL VOLUMES :	46	331	0	0	282	125	114	0	118	0	0	0	1016
APPROACH %'s :	12.20%	87.80%	0.00%	0.00%	69.29%	30.71%	49.14%	0.00%	50.86%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	7:00 AM												TOTAL
PEAK HR VOL :	32	229	0	0	171	109	95	0	92	0	0	0	728
PEAK HR FACTOR :	0.870			0.745			0.688			0.000			0.813

UTURNS			
NB	SB	EB	WB
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1	0	0	0
1	0	0	0
2	0	0	0

CONTROL : 3-Way Stop (NB/SB/EB)

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-004

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

NS/EW Streets:	PM												TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
2:30 PM	1	19	0	0	25	6	5	0	3	0	0	0	59
2:45 PM	6	27	0	1	24	12	3	0	9	0	0	0	82
3:00 PM	10	25	0	0	35	13	14	0	6	0	0	0	103
3:15 PM	7	79	0	0	43	17	30	0	19	0	0	0	195
3:30 PM	4	48	0	0	39	3	7	0	4	0	0	0	105
3:45 PM	6	28	0	0	32	3	1	0	4	0	0	0	74
4:00 PM	7	24	0	0	32	1	0	0	5	0	0	0	69
4:15 PM	1	34	0	0	35	9	6	0	3	0	0	0	88
TOTAL VOLUMES :	42	284	0	1	265	64	66	0	53	0	0	0	775
APPROACH %'s :	12.88%	87.12%	0.00%	0.30%	80.30%	19.39%	55.46%	0.00%	44.54%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	245 PM												TOTAL
PEAK HR VOL :	27	179	0	1	141	45	54	0	38	0	0	0	485
PEAK HR FACTOR :	0.599			0.779			0.469			0.000			0.622

UTURNS			
NB	SB	EB	WB
0	0		
0	1		
1	0		
1	0		
1	0		
2	0		
1	0		
0	0		
0	0		

NB	SB	EB	WB
6	1	0	0

CONTROL : 3-Way Stop (NB/SB/EB)

ITM Peak Hour Summary

Prepared by:

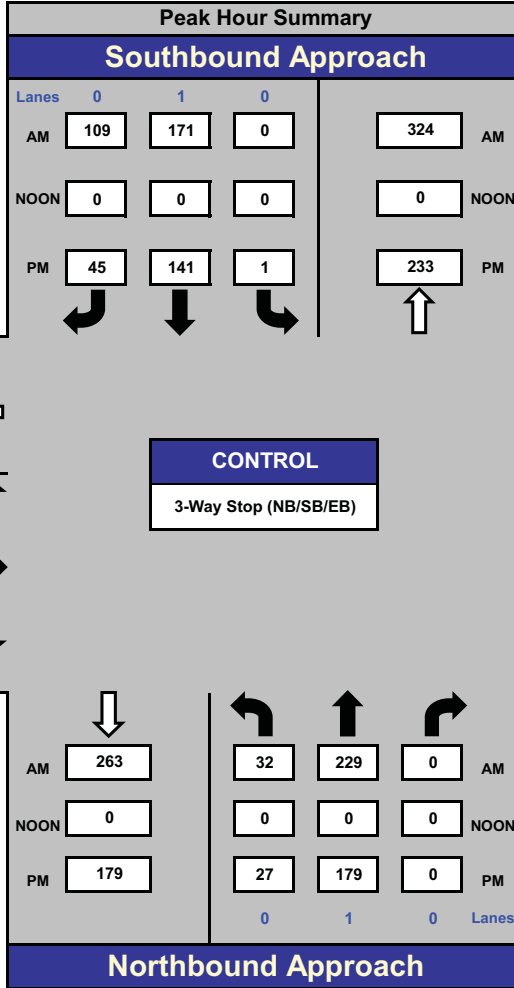


National Data & Surveying Services

Vanalden Ave and Cantara St, Reseda

Date: 11/16/2016
Day: Wednesday

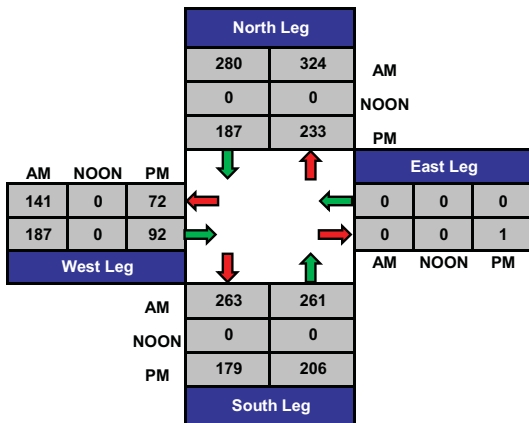
Project #: 16-5754-004
City: Reseda



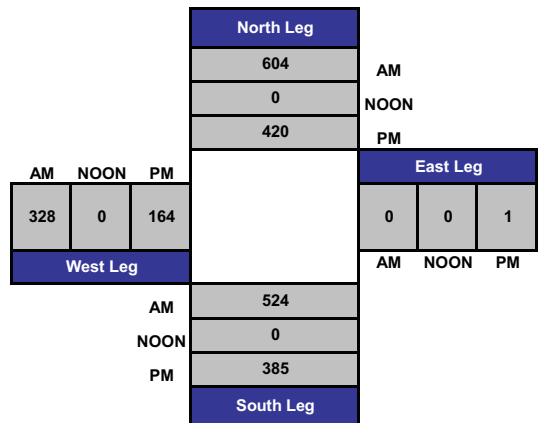
AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	245 PM

Count Periods	Start	End
AM	6:30 AM	8:30 AM
NOON	NONE	NONE
PM	2:30 PM	4:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-004

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

AM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Cantara St			Cantara St			TOTAL	
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND				
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR		
	0	1	0	0	1	0	0	1	0	0	0	0		
6:30 AM	1	22	0	0	25	1	7	0	5	0	0	0	61	
6:45 AM	4	40	0	0	53	8	7	0	14	0	0	0	126	
7:00 AM	6	46	0	0	30	6	10	0	12	0	0	0	110	
7:15 AM	8	65	0	0	42	23	15	0	16	0	0	0	169	
7:30 AM	11	51	0	0	51	33	33	0	32	0	0	0	211	
7:45 AM	7	54	0	0	47	46	34	0	32	0	0	0	220	
8:00 AM	4	22	0	0	21	2	2	0	5	0	0	0	56	
8:15 AM	4	10	0	0	10	5	2	0	2	0	0	0	33	
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL	
APPROACH %'s :	45	310	0	0	279	124	110	0	118	0	0	0	986	
	12.68%	87.32%	0.00%	0.00%	69.23%	30.77%	48.25%	0.00%	51.75%	#DIV/0!	#DIV/0!	#DIV/0!		
PEAK HR START TIME :	7:00 AM													TOTAL
PEAK HR VOL :	32	216	0	0	170	108	92	0	92	0	0	0	710	
PEAK HR FACTOR :	0.849		0.747			0.697			0.000			0.807		

UTURNS			
NB	SB	EB	WB
0			
0			
0			
0			
0			
0			
1			
1			
NB	SB	EB	WB
2	0	0	0

CONTROL : 3-Way Stop (NB/SB/EB)

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-004

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

PM

NS/EW Streets:	Vanalden Ave		Vanalden Ave			Cantara St			Cantara St			TOTAL	
	NORTHBOUND		SOUTHBOUND			EASTBOUND			WESTBOUND				
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
2:30 PM	1	19	0	0	25	6	5	0	3	0	0	0	59
2:45 PM	6	27	0	1	24	12	2	0	9	0	0	0	81
3:00 PM	10	25	0	0	32	13	14	0	6	0	0	0	100
3:15 PM	7	79	0	0	43	17	30	0	19	0	0	0	195
3:30 PM	4	47	0	0	39	3	7	0	4	0	0	0	104
3:45 PM	6	27	0	0	32	3	0	0	4	0	0	0	72
4:00 PM	7	22	0	0	32	1	0	0	5	0	0	0	67
4:15 PM	1	32	0	0	35	9	5	0	3	0	0	0	85
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	42	278	0	1	262	64	63	0	53	0	0	0	763
	13.13%	86.88%	0.00%	0.31%	80.12%	19.57%	54.31%	0.00%	45.69%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	245 PM												TOTAL
PEAK HR VOL :	27	178	0	1	138	45	53	0	38	0	0	0	480
PEAK HR FACTOR :	0.596			0.767			0.464			0.000			0.615

UTURNS			
NB	SB	EB	WB
0	0		
0	1		
1	0		
1	0		
1	0		
2	0		
1	0		
0	0		
0	0		
NB	SB	EB	WB
6	1	0	0

CONTROL : 3-Way Stop (NB/SB/EB)

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-004

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

AM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Cantara St			Cantara St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:30 AM	1	3	0	0	0	0	0	0	0	0	0	0	4
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	2	0	0	0	1	0	0	0	0	0	0	3
7:15 AM	0	2	0	0	0	0	0	0	0	0	0	0	2
7:30 AM	0	6	0	0	0	0	3	0	0	0	0	0	9
7:45 AM	0	3	0	0	1	0	0	0	0	0	0	0	4
8:00 AM	0	1	0	0	0	0	1	0	0	0	0	0	2
8:15 AM	0	4	0	0	2	0	0	0	0	0	0	0	6
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	4.55%	95.45%	0.00%	0.00%	75.00%	25.00%	100.00%	0.00%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	30
PEAK HR START TIME :	7:00 AM												TOTAL
PEAK HR VOL :	0	13	0	0	1	1	3	0	0	0	0	0	18
PEAK HR FACTOR :	0.542			0.500			0.250			0.000			0.807

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : 3-Way Stop (NB/SB/EB)

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-004

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

PM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Cantara St			Cantara St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
2:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	1	0	0	0	0	0	1
3:00 PM	0	0	0	0	3	0	0	0	0	0	0	0	3
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
3:45 PM	0	1	0	0	0	0	1	0	0	0	0	0	2
4:00 PM	0	2	0	0	0	0	0	0	0	0	0	0	2
4:15 PM	0	2	0	0	0	0	1	0	0	0	0	0	3
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	0	6	0	0	3	0	3	0	0	0	0	0	12
	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	100.00%	0.00%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	245 PM												TOTAL
PEAK HR VOL :	0	1	0	0	3	0	1	0	0	0	0	0	5
PEAK HR FACTOR :	0.250		0.250			0.250			0.000			0.615	

UTURNS

NB	SB	EB	WB
----	----	----	----

NB	SB	EB	WB
0	0	0	0

CONTROL : 3-Way Stop (NB/SB/EB)

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-005

Day: Wednesday

City: Reseda

Date: 11/16/2016

AM

NS/EW Streets:	Vanalden Ave		Vanalden Ave			Dwy 2			Dwy 2			TOTAL	
	NORTHBOUND		SOUTHBOUND			EASTBOUND			WESTBOUND				
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
6:30 AM	1	27	1	13	17	0	0	0	0	0	0	0	59
6:45 AM	0	43	4	22	43	0	0	0	0	0	0	0	112
7:00 AM	0	54	3	11	31	0	0	0	0	0	0	0	99
7:15 AM	0	77	3	14	45	0	0	0	0	0	0	0	139
7:30 AM	0	70	4	15	66	0	0	0	0	0	0	0	155
7:45 AM	0	61	1	6	73	0	0	0	0	0	0	0	141
8:00 AM	2	27	1	6	22	0	0	0	0	0	0	0	58
8:15 AM	0	17	1	5	10	0	0	0	0	0	0	1	34
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	0.76%	94.71%	4.53%	23.06%	76.94%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	0.00%	100.00%	797
PEAK HR START TIME :	7:00 AM												TOTAL
PEAK HR VOL :	0	262	11	46	215	0	0	0	0	0	0	0	534
PEAK HR FACTOR :	0.853		0.806			0.000			0.000			0.861	

UTURNS			
NB	SB	EB	WB
1	0		
0	1		
0	0		
0	0		
0	0		
2	0		
0	0		
3	1	0	0

CONTROL : No Control

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-005

Day: Wednesday

City: Reseda

Date: 11/16/2016

PM

NS/EW Streets:	Vanalden Ave		Vanalden Ave			Dwy 2			Dwy 2			TOTAL	
	NORTHBOUND		SOUTHBOUND			EASTBOUND			WESTBOUND				
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
2:30 PM	1	19	0	6	24	0	0	0	0	0	0	0	50
2:45 PM	0	34	1	4	29	0	0	0	0	0	0	0	68
3:00 PM	0	38	1	0	45	0	0	0	0	0	0	0	84
3:15 PM	0	83	2	8	53	0	0	0	0	0	0	0	146
3:30 PM	0	52	7	5	41	0	0	0	0	0	0	0	105
3:45 PM	0	34	2	1	36	0	0	0	0	0	0	1	74
4:00 PM	0	31	1	4	34	0	0	0	0	0	0	0	70
4:15 PM	0	34	6	8	29	0	0	0	0	0	0	0	77
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	1	325	20	36	291	0	0	0	0	0	0	1	674
	0.29%	93.93%	5.78%	11.01%	88.99%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	0.00%	100.00%	
PEAK HR START TIME :	300 PM												TOTAL
PEAK HR VOL :	0	207	12	14	175	0	0	0	0	0	0	1	409
PEAK HR FACTOR :	0.644		0.775			0.000			0.250			0.700	

UTURNS			
NB	SB	EB	WB
1	0		
0	1		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
0	0		
1	1	0	0

CONTROL : No Control

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-005

Day: Wednesday

City: Reseda

Date: 11/16/2016

NOON

NS/EW Streets:	Vanalden Ave	Vanalden Ave	Dwy 2	Dwy 2
	NORTHBOUND	SOUTHBOUND	EASTBOUND	WESTBOUND

LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	0	1	0	0	1	0	0	0	0	0	0	0	

UTURNS

NB	SB	EB	WB
0	0	0	0

TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	0	0	0	0	0	0	0	0	0	0	0	0	0
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	TOTAL
	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0

NB	SB	EB	WB
0	0	0	0

PEAK HR START TIME :	0 AM												TOTAL
PEAK HR VOL :	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
PEAK HR FACTOR :	0.000												0.000
	0.000												0.000

CONTROL : No Control

ITM Peak Hour Summary

Prepared by:

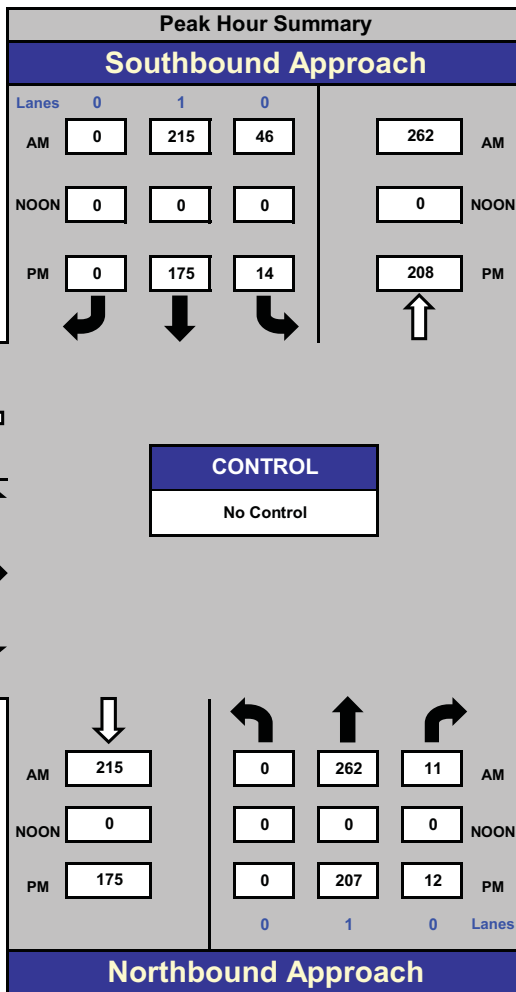


National Data & Surveying Services

Vanalden Ave and Dwy 2, Reseda

Date: 11/16/2016
Day: Wednesday

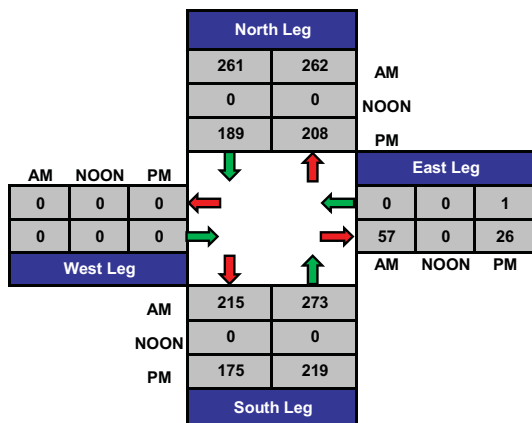
Project #: 16-5754-005
City: Reseda



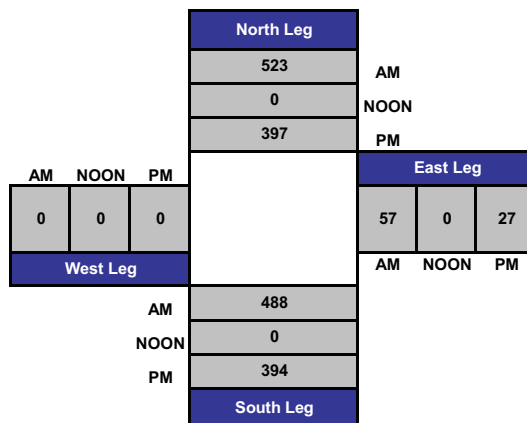
AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	300 PM

Count Periods	Start	End
AM	6:30 AM	8:30 AM
NOON	NONE	NONE
PM	2:30 PM	4:30 PM

Total Ins & Outs



Total Volume Per Leg



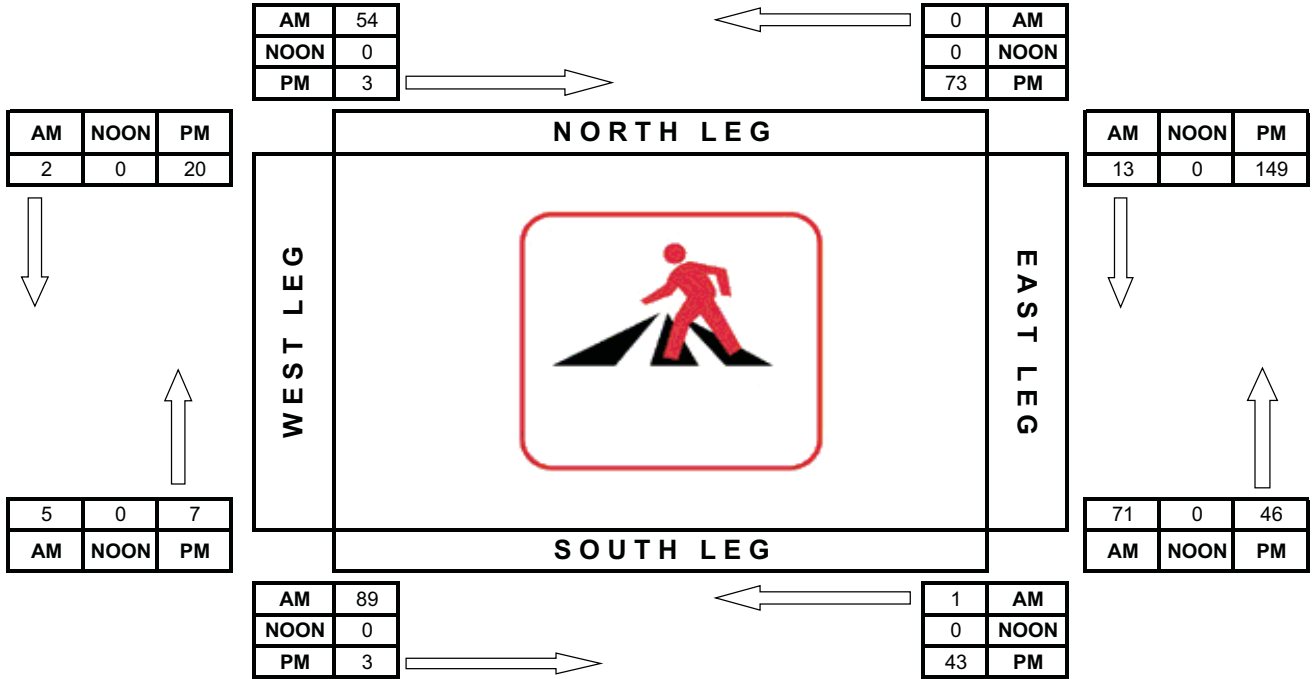
PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Pedestrian Count Peak Hour

PROJECT#: 16-5754-006
 N/S Street: Vanalden Ave
 E/W Street: Lanark St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30



PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Bicycle Count Peak Hour

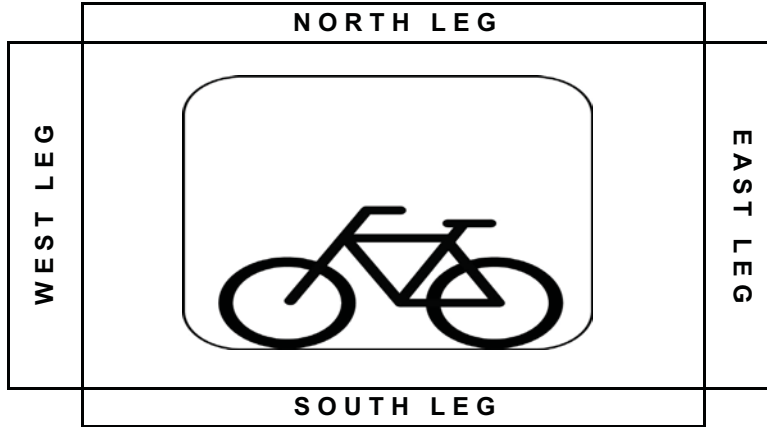
PROJECT#: 16-5754-006
 N/S Street: Vanalden Ave
 E/W Street: Lanark St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30

AM	0	0	0
NOON	0	0	0
PM	2	6	0

AM	NOON	PM
0	0	0
0	0	0
0	0	0



AM	NOON	PM
1	0	0
0	0	0
0	0	4

AM	0	7	1
NOON	0	0	0
PM	0	0	0

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5754-006
 N/S Street: Vanalden Ave
 E/W Street: Lanark St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

A M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
6:30 AM	0	0	0	0	6	0	0	0
6:45 AM	2	0	0	0	10	0	0	0
7:00 AM	4	0	3	0	4	2	0	0
7:15 AM	11	0	12	0	11	1	2	0
7:30 AM	21	0	35	0	40	0	3	1
7:45 AM	18	0	39	1	16	10	0	1
8:00 AM	2	0	0	0	5	0	0	0
8:15 AM	0	0	0	0	4	0	0	0
TOTALS	58	0	89	1	96	13	5	2

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	1	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	1	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	5	1	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	1	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
TOTALS	0	8	1	0	0	0	0	0	0	0	0	1

P M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
2:30 PM	0	0	0	0	4	0	0	0
2:45 PM	1	0	0	0	3	5	0	0
3:00 PM	1	28	1	22	7	71	2	8
3:15 PM	2	36	0	12	20	64	0	11
3:30 PM	0	8	2	8	7	12	4	1
3:45 PM	0	1	0	1	12	2	1	0
4:00 PM	0	2	0	0	7	7	0	0
4:15 PM	0	0	0	1	1	7	0	0
TOTALS	4	75	3	44	61	168	7	20

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
2:30 PM	0	0	1	0	0	0	0	0	0	0	0	0
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	5	2	0	0	0	1	0	0
3:15 PM	0	0	0	0	1	0	0	0	0	2	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	1	0	0
4:00 PM	0	2	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	2	0	0	0	0	0	0	0	0	0	0
TOTALS	0	4	1	0	6	2	0	0	0	4	0	0

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-006

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

NS/EW Streets:	AM												TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
6:30 AM	1	19	8	4	11	2	8	1	1	5	0	4	64
6:45 AM	2	35	24	15	27	3	7	10	2	19	6	13	163
7:00 AM	3	44	14	4	25	5	7	11	4	18	2	8	145
7:15 AM	9	69	10	4	43	4	18	9	18	13	0	0	197
7:30 AM	13	69	8	2	55	15	27	10	29	3	0	1	232
7:45 AM	20	48	4	5	72	21	24	10	35	0	2	0	241
8:00 AM	1	24	3	2	18	1	6	5	3	1	1	0	65
8:15 AM	1	7	2	2	9	1	6	0	3	1	0	0	32
TOTAL VOLUMES :	NL 50	NT 315	NR 73	SL 38	ST 260	SR 52	EL 103	ET 56	ER 95	WL 60	WT 11	WR 26	TOTAL 1139
APPROACH %'s :	11.42%	71.92%	16.67%	10.86%	74.29%	14.86%	40.55%	22.05%	37.40%	61.86%	11.34%	26.80%	
PEAK HR START TIME :	700 AM												TOTAL
PEAK HR VOL :	45	230	36	15	195	45	76	40	86	34	4	9	815
PEAK HR FACTOR :	0.864			0.651			0.732			0.420			0.845

UTURNS			
NB	SB	EB	WB
0	1		
0	0		
1	0		
0	0		
0	0		
0	1		
0	0		
0	0		
1	2	0	0

CONTROL : 3-Way Stop (NB/SB/EB)

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-006

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

NS/EW Streets:	PM												TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
2:30 PM	3	19	1	1	15	2	2	0	4	3	3	2	55
2:45 PM	0	23	5	7	9	3	6	2	3	4	4	4	70
3:00 PM	12	28	1	3	30	13	12	1	7	5	6	2	120
3:15 PM	11	45	5	2	43	24	22	5	16	8	7	6	194
3:30 PM	8	34	8	9	30	4	11	4	3	11	4	7	133
3:45 PM	1	31	1	7	25	2	3	3	3	10	2	8	96
4:00 PM	0	22	4	7	24	6	3	6	3	3	5	6	89
4:15 PM	2	27	5	11	12	4	7	2	1	6	1	7	85
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	12.50%	77.36%	10.14%	16.04%	64.16%	19.80%	51.16%	17.83%	31.01%	40.32%	25.81%	33.87%	842
PEAK HR START TIME :	300 PM												TOTAL
PEAK HR VOL :	32	138	15	21	128	43	48	13	29	34	19	23	543
PEAK HR FACTOR :	0.758			0.696			0.523			0.864			0.700

UTURNS			
NB	SB	EB	WB
0	0		
0	1		
2	2		
0	0		
1	0		
0	0		
0	0		
0	0		
NB	SB	EB	WB
3	3	0	0

CONTROL : 3-Way Stop (NB/SB/EB)

ITM Peak Hour Summary

Prepared by:



National Data & Surveying Services

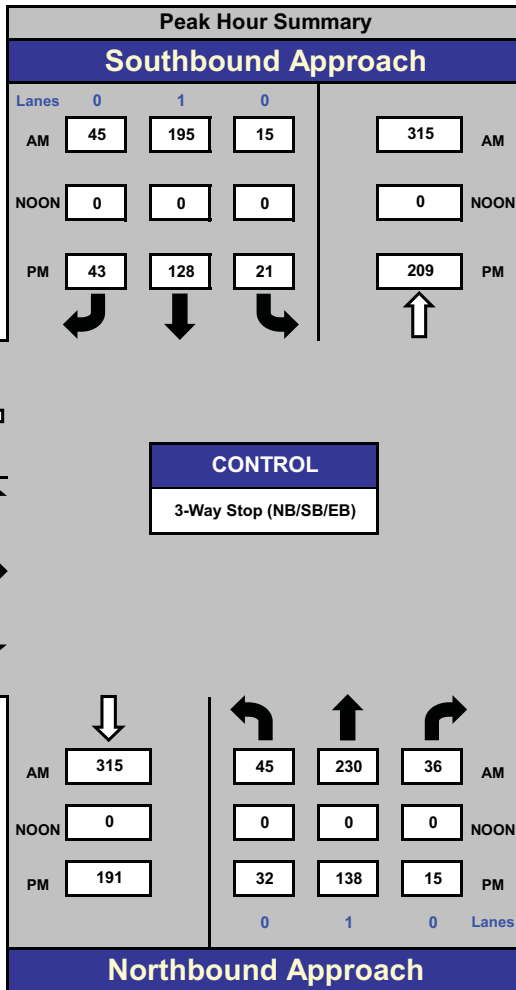
Vanalden Ave and Lanark St., Reseda

Date: 11/16/2016

Day: Wednesday

Project #: 16-5754-006

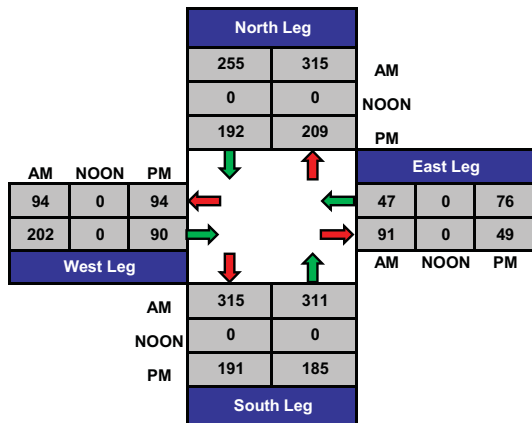
City: Reseda



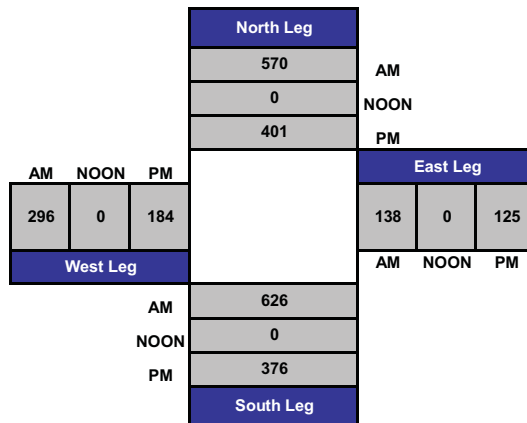
AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	300 PM

Count Periods	Start	End
AM	6:30 AM	8:30 AM
NOON	NONE	NONE
PM	2:30 PM	4:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-006

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

AM

NS/EW Streets:	Vanalden Ave		Vanalden Ave			Lanark St			Lanark St			TOTAL	
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	
6:30 AM	1	17	8	4	11	2	7	1	1	5	0	4	61
6:45 AM	2	34	24	15	27	3	7	10	2	19	6	13	162
7:00 AM	3	43	14	4	25	5	7	11	4	18	2	8	144
7:15 AM	9	69	10	4	43	4	16	9	18	13	0	0	195
7:30 AM	13	62	8	2	55	15	26	10	29	3	0	1	224
7:45 AM	20	47	4	5	71	21	24	10	35	0	2	0	239
8:00 AM	1	20	3	2	18	1	5	5	3	1	1	0	60
8:15 AM	1	5	2	2	7	1	5	0	3	1	0	0	27
TOTAL VOLUMES :	NL 50	NT 297	NR 73	SL 38	ST 257	SR 52	EL 97	ET 56	ER 95	WL 60	WT 11	WR 26	TOTAL 1112
APPROACH %'s :	11.90%	70.71%	17.38%	10.95%	74.06%	14.99%	39.11%	22.58%	38.31%	61.86%	11.34%	26.80%	
PEAK HR START TIME :	700 AM												TOTAL
PEAK HR VOL :	45	221	36	15	194	45	73	40	86	34	4	9	802
PEAK HR FACTOR :	0.858			0.655			0.721			0.420			0.839

UTURNS			
NB	SB	EB	WB
0	1		
0	0		
1	0		
0	0		
0	0		
0	1		
0	0		
0	0		
1	0		
0	0		

CONTROL : 3-Way Stop (NB/SB/EB)

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-006

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

PM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Lanark St			Lanark St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
2:30 PM	3	19	1	1	14	2	2	0	4	3	3	2	54
2:45 PM	0	23	5	7	9	3	6	2	3	4	4	4	70
3:00 PM	12	28	1	3	28	13	12	1	7	5	6	2	118
3:15 PM	11	45	5	2	43	24	22	5	16	8	7	6	194
3:30 PM	8	33	8	9	30	4	11	4	3	11	4	7	132
3:45 PM	1	30	1	7	25	2	3	3	3	10	2	8	95
4:00 PM	0	20	4	7	24	6	3	6	3	3	5	6	87
4:15 PM	2	26	5	11	12	4	6	2	1	6	1	7	83
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	12.71%	76.98%	10.31%	16.21%	63.79%	20.00%	50.78%	17.97%	31.25%	40.32%	25.81%	33.87%	833
PEAK HR START TIME :	300 PM												TOTAL
PEAK HR VOL :	32	136	15	21	126	43	48	13	29	34	19	23	539
PEAK HR FACTOR :	0.750			0.688			0.523			0.864			0.695

UTURNS			
NB	SB	EB	WB
0	0		
0	1		
2	2		
0	0		
1	0		
0	0		
0	0		
0	0		
0	0		
3	3	0	0

CONTROL : 3-Way Stop (NB/SB/EB)

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-006

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

AM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Lanark St			Lanark St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:30 AM	0	2	0	0	0	0	1	0	0	0	0	0	3
6:45 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	2	0	0	0	0	0	2
7:30 AM	0	7	0	0	0	0	1	0	0	0	0	0	8
7:45 AM	0	1	0	0	1	0	0	0	0	0	0	0	2
8:00 AM	0	4	0	0	0	0	1	0	0	0	0	0	5
8:15 AM	0	2	0	0	2	0	1	0	0	0	0	0	5
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	0	18	0	0	3	0	6	0	0	0	0	0	27
	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	100.00%	0.00%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	7:00 AM												TOTAL
PEAK HR VOL :	0	9	0	0	1	0	3	0	0	0	0	0	13
PEAK HR FACTOR :	0.321		0.250			0.375			0.000			0.839	

UTURNS			
NB	SB	EB	WB
0	0	0	0

NB	SB	EB	WB
0	0	0	0

CONTROL : 3-Way Stop (NB/SB/EB)

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-006

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

PM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Lanark St			Lanark St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
2:30 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	2	0	0	0	0	0	0	0	2
3:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
3:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:00 PM	0	2	0	0	0	0	0	0	0	0	0	0	2
4:15 PM	0	1	0	0	0	0	1	0	0	0	0	0	2
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	0	5	0	0	3	0	1	0	0	0	0	0	9
	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	100.00%	0.00%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	300 PM												TOTAL
PEAK HR VOL :	0	2	0	0	2	0	0	0	0	0	0	0	4
PEAK HR FACTOR :	0.500			0.250			0.000			0.000			0.695

UTURNS

NB	SB	EB	WB
----	----	----	----

NB	SB	EB	WB
0	0	0	0

CONTROL : 3-Way Stop (NB/SB/EB)

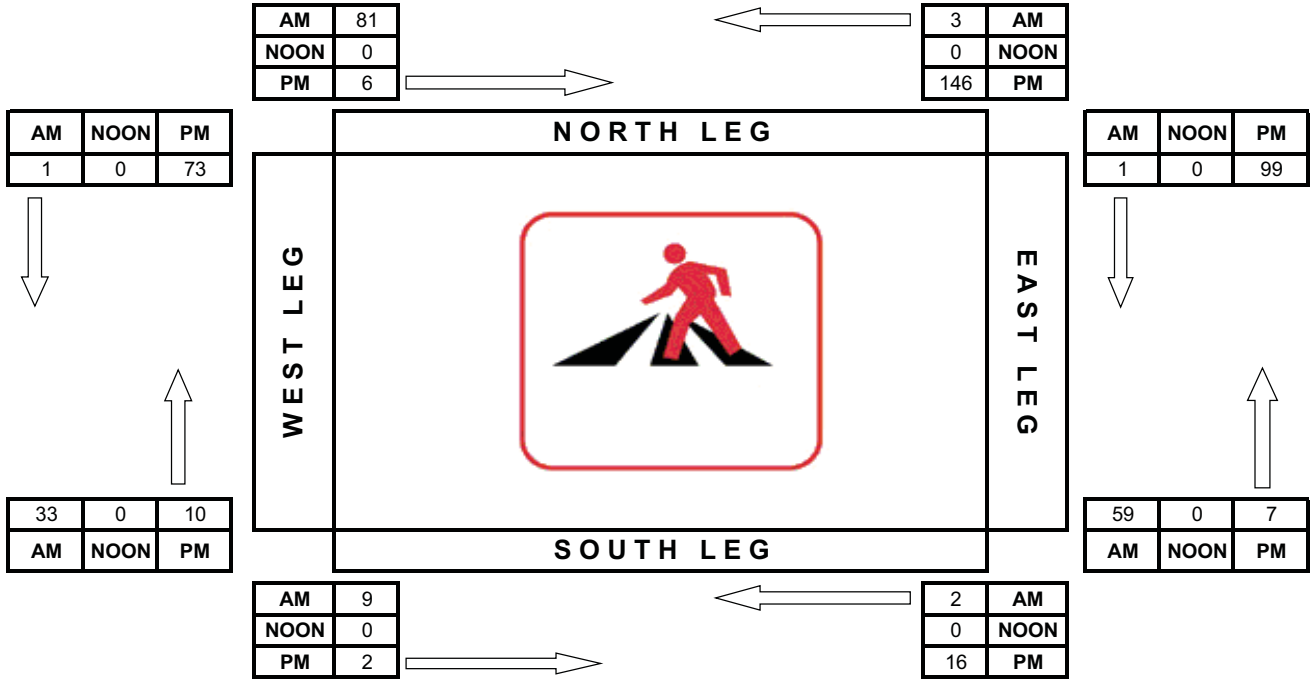
PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Pedestrian Count Peak Hour

PROJECT#: 16-5754-007
 N/S Street: Vanalden Ave
 E/W Street: Strathern St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30



PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Bicycle Count Peak Hour

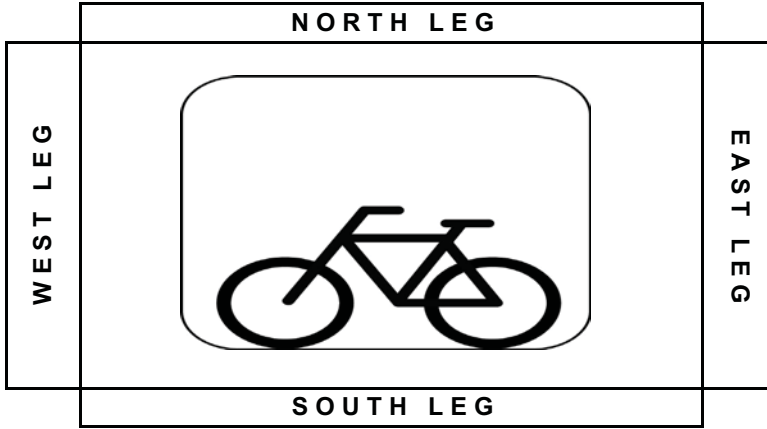
PROJECT#: 16-5754-007
 N/S Street: Vanalden Ave
 E/W Street: Strathern St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30

AM	0	0	0
NOON	0	0	0
PM	3	10	1

AM	NOON	PM
4	0	0
3	0	0
0	0	0



AM	NOON	PM
1	0	0
0	0	4
1	0	1

AM	0	10	2
NOON	0	0	0
PM	0	0	0

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5754-007
 N/S Street: Vanalden Ave
 E/W Street: Strathern St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

A M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
6:30 AM	1	0	0	0	5	0	0	0
6:45 AM	3	1	1	1	1	0	0	0
7:00 AM	4	0	1	0	1	0	1	0
7:15 AM	9	2	1	0	6	0	1	0
7:30 AM	44	0	2	1	31	0	17	1
7:45 AM	24	1	5	1	21	1	14	0
8:00 AM	3	1	0	0	1	0	0	0
8:15 AM	0	0	0	0	0	0	0	0
TOTALS	88	5	10	3	66	1	33	1

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:30 AM	0	1	1	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	2	0	0	0	1
7:15 AM	0	3	1	0	0	0	0	0	0	0	0	0
7:30 AM	0	6	1	0	0	0	4	0	0	0	0	0
7:45 AM	0	1	0	0	0	0	0	1	0	1	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	0	11	3	0	0	0	4	3	0	1	0	2

P M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
2:30 PM	1	0	0	1	1	0	1	0
2:45 PM	0	0	0	0	0	0	0	0
3:00 PM	3	74	0	3	0	32	2	26
3:15 PM	2	63	1	11	1	64	6	45
3:30 PM	1	6	1	0	2	2	1	1
3:45 PM	0	3	0	2	4	1	1	1
4:00 PM	0	1	1	0	1	1	0	0
4:15 PM	0	1	0	2	1	8	0	0
TOTALS	7	148	3	19	10	108	11	73

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
2:30 PM	0	1	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
3:00 PM	0	0	0	1	6	1	0	0	0	1	3	0
3:15 PM	0	0	0	0	3	2	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
3:45 PM	0	0	0	0	1	0	0	0	0	0	1	0
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	2	0	0	0	0	0	1	0	0	0	0
TOTALS	0	4	0	1	10	3	0	1	0	1	4	1

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-007

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

NS/EW Streets:	AM												TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	
6:30 AM	0	21	1	8	10	1	5	5	2	2	4	10	69
6:45 AM	2	28	0	21	19	5	17	4	2	3	10	24	135
7:00 AM	1	30	6	12	22	14	8	5	1	4	12	31	146
7:15 AM	5	46	9	14	38	16	19	12	1	6	25	35	226
7:30 AM	19	48	19	8	38	30	19	18	14	22	31	25	291
7:45 AM	1	28	14	16	56	47	18	24	9	24	34	27	298
8:00 AM	2	13	7	4	13	4	1	14	2	7	20	16	103
8:15 AM	0	6	4	2	9	4	1	12	1	7	19	5	70
TOTAL VOLUMES :	NL 30	NT 220	NR 60	SL 85	ST 205	SR 121	EL 88	ET 94	ER 32	WL 75	WT 155	WR 173	TOTAL 1338
APPROACH %'s :	9.68%	70.97%	19.35%	20.68%	49.88%	29.44%	41.12%	43.93%	14.95%	18.61%	38.46%	42.93%	
PEAK HR START TIME :	700 AM												TOTAL
PEAK HR VOL :	26	152	48	50	154	107	64	59	25	56	102	118	961
PEAK HR FACTOR :	0.657			0.653			0.725			0.812			0.806

UTURNS			
NB	SB	EB	WB
0		0	
0		0	
0		0	
0		0	
1		2	
0		0	
0		0	
0		0	
1		2	
1	0	2	0

CONTROL : 4-Way Stop

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-007

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

PM

NS/EW Streets:	Vanalden Ave		Vanalden Ave			Strathern St			Strathern St			TOTAL	
	NORTHBOUND		SOUTHBOUND			EASTBOUND			WESTBOUND				
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	
2:30 PM	4	11	5	8	7	6	2	12	2	4	17	12	90
2:45 PM	4	15	6	5	10	4	0	19	4	11	16	13	107
3:00 PM	6	11	15	9	12	16	12	17	8	8	14	18	146
3:15 PM	5	23	15	26	37	32	13	20	23	17	30	21	262
3:30 PM	6	18	4	15	22	8	6	12	2	2	18	23	136
3:45 PM	4	16	4	12	14	13	4	19	0	4	23	13	126
4:00 PM	1	11	3	12	19	1	2	10	6	3	29	15	112
4:15 PM	1	15	9	7	9	4	6	17	4	4	14	13	103
TOTAL VOLUMES :	NL 31	NT 120	NR 61	SL 94	ST 130	SR 84	EL 45	ET 126	ER 49	WL 53	WT 161	WR 128	TOTAL 1082
APPROACH %'s :	14.62%	56.60%	28.77%	30.52%	42.21%	27.27%	20.45%	57.27%	22.27%	15.50%	47.08%	37.43%	
PEAK HR START TIME :	300 PM												TOTAL
PEAK HR VOL :	21	68	38	62	85	69	35	68	33	31	85	75	670
PEAK HR FACTOR :	0.738		0.568			0.607			0.702			0.639	

UTURNS			
NB	SB	EB	WB
0			0
0			1
0			0
0			0
1			0
0			0
0			0
0			0

NB	SB	EB	WB
0	1	0	1

CONTROL : 4-Way Stop

ITM Peak Hour Summary

Prepared by:

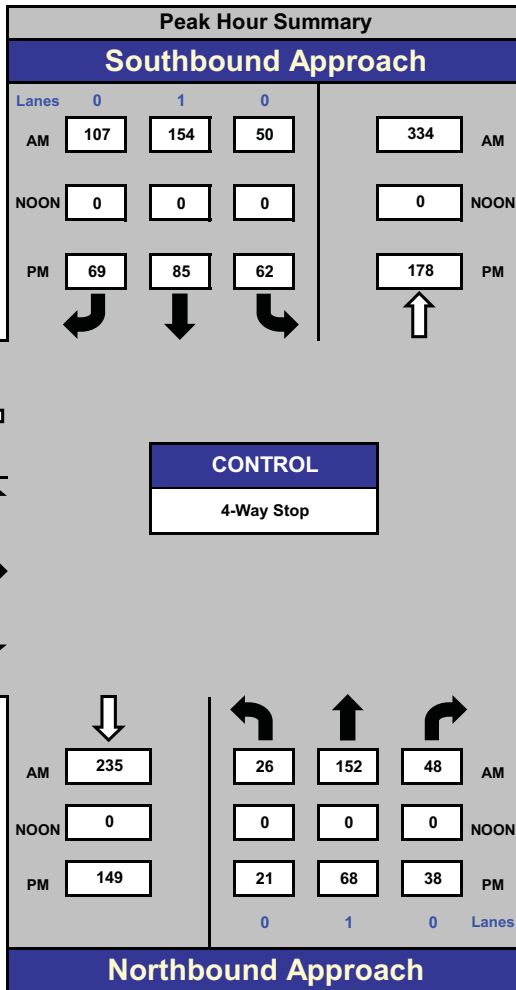


National Data & Surveying Services

Vanalden Ave and Strathern St., Reseda

Date: 11/16/2016
Day: Wednesday

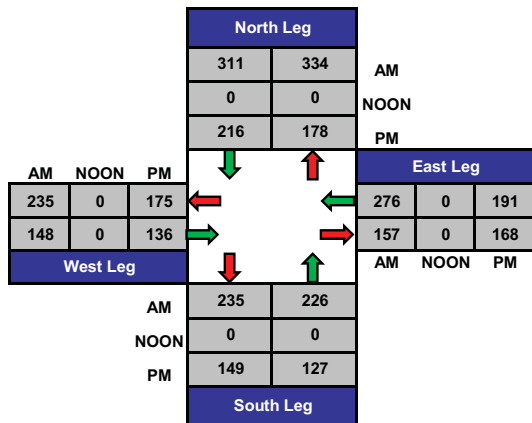
Project #: 16-5754-007
City: Reseda



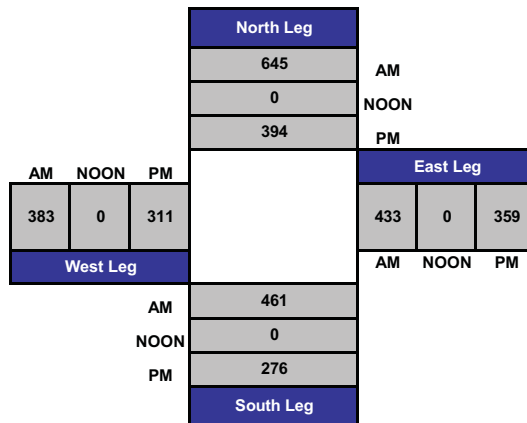
AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	300 PM

Count Periods	Start	End
AM	6:30 AM	8:30 AM
NOON	NONE	NONE
PM	2:30 PM	4:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-007

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

AM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Strathern St			Strathern St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
	0	1	0	0	1	0	0	1	0	0	1	0	
6:30 AM	0	19	1	8	10	1	5	5	2	2	4	10	67
6:45 AM	2	27	0	21	19	5	17	4	2	2	10	24	133
7:00 AM	1	30	5	12	22	14	8	5	1	4	12	30	144
7:15 AM	5	45	9	14	38	16	19	11	1	6	25	34	223
7:30 AM	19	46	19	8	38	30	18	18	14	22	31	23	286
7:45 AM	1	28	14	16	55	47	18	24	9	24	34	26	296
8:00 AM	2	13	7	4	13	4	1	14	2	7	20	12	99
8:15 AM	0	5	4	1	8	4	1	12	1	7	19	3	65
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	30	213	59	84	203	121	87	93	32	74	155	162	1313
	9.93%	70.53%	19.54%	20.59%	49.75%	29.66%	41.04%	43.87%	15.09%	18.93%	39.64%	41.43%	
PEAK HR START TIME :	700 AM												TOTAL
PEAK HR VOL :	26	149	47	50	153	107	63	58	25	56	102	113	949
PEAK HR FACTOR :	0.661			0.657			0.716			0.807			0.802

UTURNS			
NB	SB	EB	WB
0		0	
0		0	
0		0	
0		0	
1		2	
0		0	
0		0	
0		0	
1	0	2	0

CONTROL : 4-Way Stop

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-007

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

PM

NS/EW Streets:

Vanalden Ave

Vanalden Ave

Strathern St

Strathern St

NORTHBOUND

SOUTHBOUND

EASTBOUND

WESTBOUND

LANES:	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			TOTAL
	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	
2:30 PM	4	11	5	8	7	6	2	12	2	4	15	12	88
2:45 PM	4	15	6	5	10	4	0	19	4	11	16	13	107
3:00 PM	6	11	15	8	12	15	12	17	8	8	14	18	144
3:15 PM	5	23	15	26	37	32	13	20	23	17	29	20	260
3:30 PM	6	18	4	15	22	8	6	12	2	2	18	23	136
3:45 PM	4	16	4	12	14	13	4	19	0	3	23	13	125
4:00 PM	1	11	3	12	19	1	2	10	6	3	29	13	110
4:15 PM	1	15	9	7	9	4	6	17	4	4	14	13	103

TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	14.62%	56.60%	28.77%	30.39%	42.48%	27.12%	20.45%	57.27%	22.27%	15.52%	47.16%	37.31%	1073

PEAK HR START TIME :	300 PM												TOTAL
PEAK HR VOL :	21	68	38	61	85	68	35	68	33	30	84	74	665
PEAK HR FACTOR :	0.738			0.563			0.607			0.712			0.639

CONTROL : 4-Way Stop

UTURNS

NB	SB	EB	WB
0			0
0			1
0			0
0			0
1			0
0			0
0			0
0			0

NB	SB	EB	WB
0	1	0	1

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-007

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

AM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Strathern St			Strathern St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:30 AM	0	2	0	0	0	0	0	0	0	0	0	0	2
6:45 AM	0	1	0	0	0	0	0	0	0	1	0	0	2
7:00 AM	0	0	1	0	0	0	0	0	0	0	0	1	2
7:15 AM	0	1	0	0	0	0	0	1	0	0	0	1	3
7:30 AM	0	2	0	0	0	0	1	0	0	0	0	2	5
7:45 AM	0	0	0	0	1	0	0	0	0	0	0	1	2
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	4	4
8:15 AM	0	1	0	1	1	0	0	0	0	0	0	2	5
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	0	7	1	1	2	0	1	1	0	1	0	11	25
	0.00%	87.50%	12.50%	33.33%	66.67%	0.00%	50.00%	50.00%	0.00%	8.33%	0.00%	91.67%	
PEAK HR START TIME :	7:00 AM												TOTAL
PEAK HR VOL :	0	3	1	0	1	0	1	1	0	0	0	5	12
PEAK HR FACTOR :	0.500			0.250			0.500			0.625			0.802

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : 4-Way Stop

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-007

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

PM

NS/EW Streets:	Vanalden Ave			Vanalden Ave			Strathern St			Strathern St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
2:30 PM	0	0	0	0	0	0	0	0	0	0	2	0	2
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	1	0	1	0	0	0	0	0	0	2
3:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	2
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	1	0	0	1
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	50.00%	0.00%	50.00%	#DIV/0!	#DIV/0!	#DIV/0!	14.29%	42.86%	42.86%	9
PEAK HR START TIME :	300 PM												TOTAL
PEAK HR VOL :	0	0	0	1	0	1	0	0	0	1	1	1	5
PEAK HR FACTOR :	0.000			0.250			0.000			0.375			0.639

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : 4-Way Stop

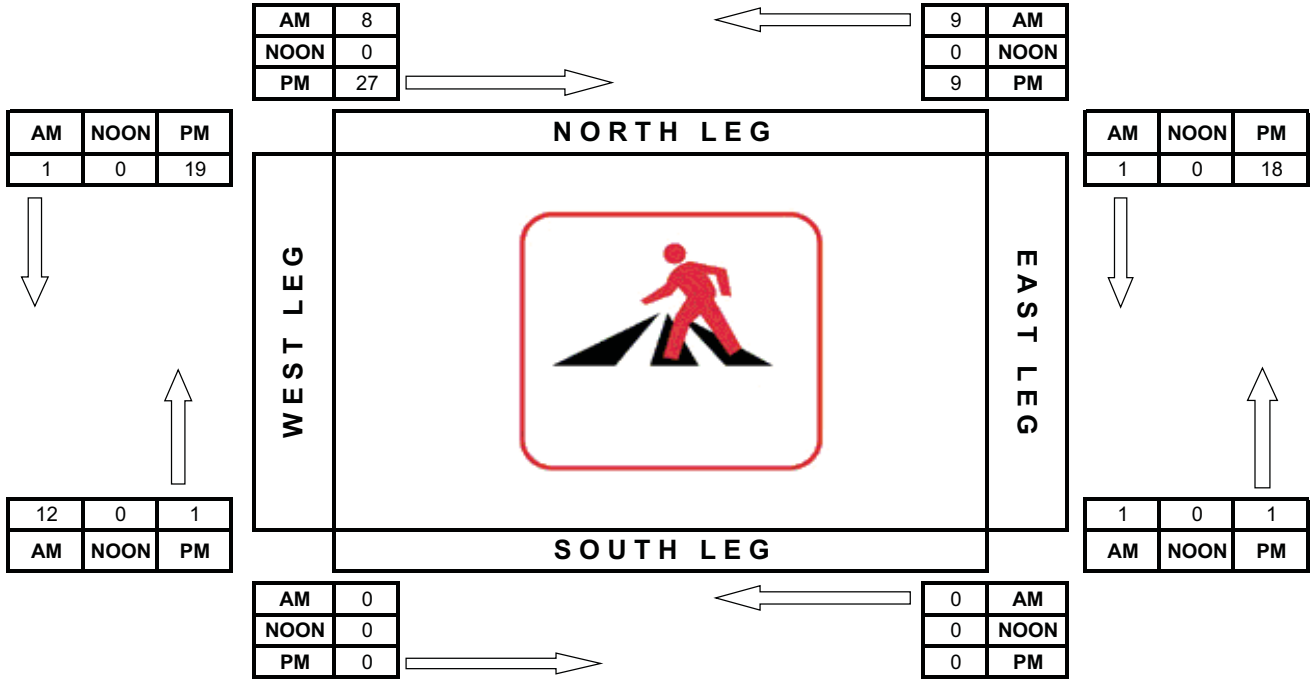
PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Pedestrian Count Peak Hour

PROJECT#: 16-5754-008
 N/S Street: Service Rd
 E/W Street: Strathern St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30



PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Bicycle Count Peak Hour

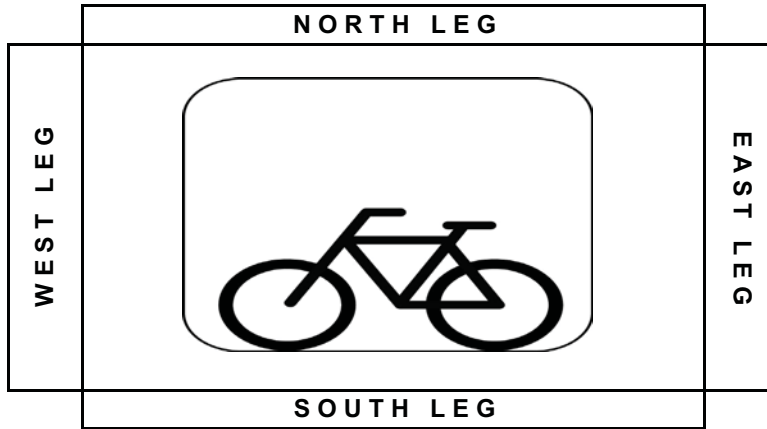
PROJECT#: 16-5754-008
 N/S Street: Service Rd
 E/W Street: Strathern St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30

AM	0	0	0
NOON	0	0	0
PM	4	0	1

AM	NOON	PM
1	0	0
1	0	2
0	0	0



AM	NOON	PM
2	0	0
2	0	1
0	0	0

AM	0	0	0
NOON	0	0	0
PM	0	0	0

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5754-008
 N/S Street: Service Rd
 E/W Street: Strathern St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

A M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
6:30 AM	0	0	0	0	0	0	0	0
6:45 AM	1	2	0	0	0	0	2	0
7:00 AM	2	0	0	0	1	1	0	0
7:15 AM	0	2	0	0	2	0	4	0
7:30 AM	3	1	0	0	1	0	6	1
7:45 AM	0	1	0	0	0	0	6	0
8:00 AM	2	2	0	0	0	0	0	0
8:15 AM	3	5	0	0	0	1	0	0
TOTALS	11	13	0	0	4	2	18	1

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:30 AM	0	0	0	0	0	0	1	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	1	0
7:15 AM	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	1
7:45 AM	0	0	0	0	0	0	1	0	0	0	1	1
8:00 AM	0	0	0	0	0	0	0	0	0	0	1	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	0	0	0	0	0	0	2	1	0	0	3	2

P M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
2:30 PM	0	2	0	0	1	0	0	0
2:45 PM	1	1	0	0	0	1	0	0
3:00 PM	2	1	0	0	0	10	0	13
3:15 PM	10	1	0	0	1	7	1	6
3:30 PM	14	6	0	0	0	0	0	0
3:45 PM	1	0	0	0	0	1	0	0
4:00 PM	0	4	0	0	0	0	0	0
4:15 PM	5	0	0	0	0	0	0	0
TOTALS	33	15	0	0	2	19	1	19

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
2:30 PM	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
3:00 PM	0	0	0	1	0	4	0	1	0	0	0	0
3:15 PM	0	0	0	0	0	0	0	1	0	0	0	0
3:30 PM	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	1	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	1	0
4:15 PM	0	0	0	0	0	0	0	1	0	0	0	0
TOTALS	0	0	0	1	0	4	0	3	0	0	2	0

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-008

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

NS/EW Streets:	AM												TOTAL
	Service Rd			Service Rd			Strathern St			Strathern St			
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:30 AM	0	0	0	0	0	1	3	12	0	1	14	0	31
6:45 AM	0	0	1	0	0	0	3	21	0	3	38	0	66
7:00 AM	1	0	0	0	0	0	0	20	0	6	45	1	73
7:15 AM	1	0	0	0	0	1	3	32	1	11	71	3	123
7:30 AM	0	0	2	1	0	0	4	52	0	12	88	2	161
7:45 AM	1	0	0	0	0	2	6	58	0	8	84	6	165
8:00 AM	0	0	0	0	0	1	11	19	0	0	40	1	71
8:15 AM	0	0	0	0	0	1	6	20	0	2	26	2	57
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	50.00%	0.00%	50.00%	16.67%	0.00%	83.33%	13.28%	86.35%	0.37%	9.27%	87.50%	3.23%	747
PEAK HR START TIME :	7:00 AM												TOTAL
PEAK HR VOL :	3	0	2	1	0	3	13	162	1	37	288	12	522
PEAK HR FACTOR :	0.625			0.500			0.688			0.826			0.791

UTURNS			
NB	SB	EB	WB
		1	1
		1	3
		0	6
		1	11
		2	12
		3	8
		9	0
		4	1
NB	SB	EB	WB
0	0	21	42

CONTROL : No Control

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-008

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

PM

NS/EW Streets:	Service Rd			Service Rd			Strathern St			Strathern St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
	0	0	0	0	1	0	0	1	0	0	1	0	
2:30 PM	0	0	0	0	0	0	2	21	0	0	32	0	55
2:45 PM	0	0	0	1	0	0	9	16	0	0	38	3	67
3:00 PM	0	0	0	0	0	2	2	41	0	3	40	1	89
3:15 PM	0	0	0	1	0	2	2	73	0	4	66	0	148
3:30 PM	0	0	0	0	0	1	1	32	0	0	39	0	73
3:45 PM	0	0	0	0	0	0	4	28	0	3	39	0	71
4:00 PM	0	0	0	1	0	2	4	27	0	3	41	0	78
4:15 PM	1	0	0	2	0	0	2	33	0	0	33	1	72
TOTAL VOLUMES :	1	0	0	5	0	7	26	271	0	10	328	5	653
APPROACH %'s :	100.00%	0.00%	0.00%	41.67%	0.00%	58.33%	8.75%	91.25%	0.00%	2.92%	95.63%	1.46%	
PEAK HR START TIME :	300 PM												TOTAL
PEAK HR VOL :	0	0	0	1	0	5	9	174	0	7	184	1	381
PEAK HR FACTOR :	0.000												0.644

UTURNS			
NB	SB	EB	WB
		2	0
		7	0
		2	3
		1	4
		1	0
		2	0
		4	1
		1	0

NB	SB	EB	WB
0	0	20	8

CONTROL : No Control

ITM Peak Hour Summary

Prepared by:

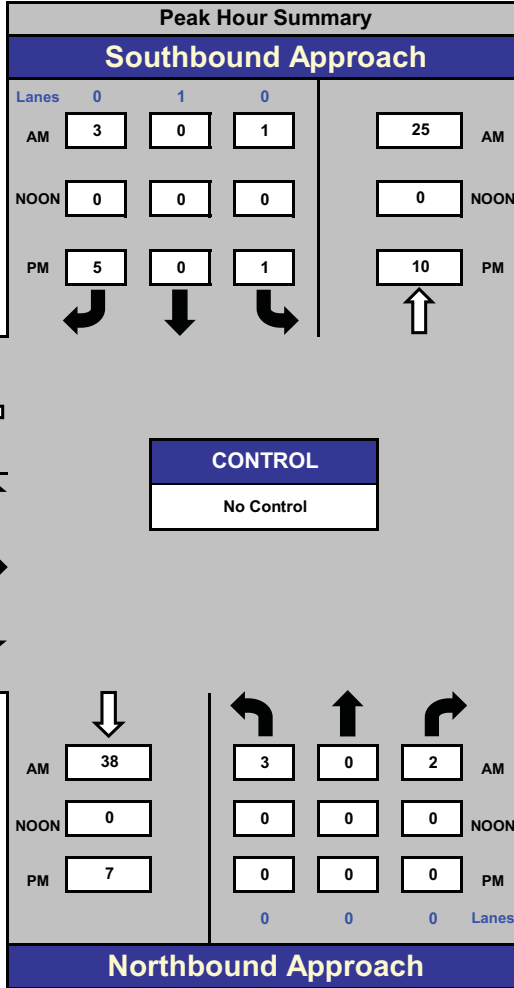


National Data & Surveying Services

Service Rd and Strathern St, Reseda

Date: 11/16/2016
Day: Wednesday

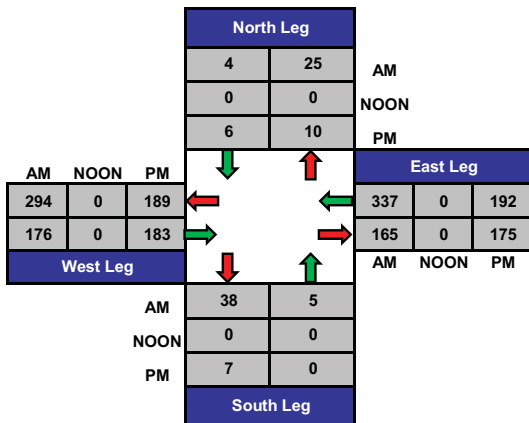
Project #: 16-5754-008
City: Reseda



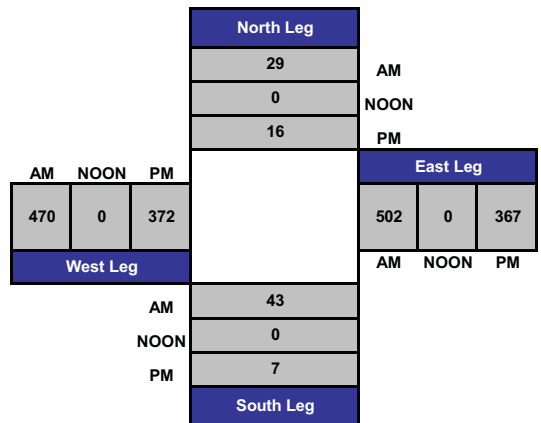
AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	300 PM

Count Periods	Start	End
AM	6:30 AM	8:30 AM
NOON	NONE	NONE
PM	2:30 PM	4:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-008

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

AM

NS/EW Streets:	Service Rd			Service Rd			Strathern St			Strathern St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:30 AM	0	0	0	0	0	1	3	12	0	1	14	0	31
6:45 AM	0	0	1	0	0	0	3	21	0	3	37	0	65
7:00 AM	1	0	0	0	0	0	0	19	0	6	44	1	71
7:15 AM	1	0	0	0	0	1	3	31	1	11	70	3	121
7:30 AM	0	0	2	1	0	0	4	52	0	12	86	2	159
7:45 AM	1	0	0	0	0	2	6	58	0	8	83	6	164
8:00 AM	0	0	0	0	0	1	11	19	0	0	36	1	67
8:15 AM	0	0	0	0	0	1	6	19	0	2	24	2	54
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	50.00%	0.00%	50.00%	16.67%	0.00%	83.33%	13.43%	86.19%	0.37%	9.51%	87.17%	3.32%	732
PEAK HR START TIME :	7:00 AM												TOTAL
PEAK HR VOL :	3	0	2	1	0	3	13	160	1	37	283	12	515
PEAK HR FACTOR :	0.625			0.500			0.680			0.830			0.785

CONTROL : No Control

UTURNS			
NB	SB	EB	WB
		1	1
		1	3
		0	6
		1	11
		2	12
		3	8
		9	0
		4	1
NB	SB	EB	WB
0	0	21	42

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-008

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

PM

NS/EW Streets:	Service Rd			Service Rd			Strathern St			Strathern St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
2:30 PM	0	0	0	0	0	0	2	21	0	0	30	0	53
2:45 PM	0	0	0	1	0	0	9	16	0	0	38	3	67
3:00 PM	0	0	0	0	0	2	2	40	0	3	40	1	88
3:15 PM	0	0	0	1	0	2	2	73	0	4	63	0	145
3:30 PM	0	0	0	0	0	1	1	32	0	0	39	0	73
3:45 PM	0	0	0	0	0	0	4	28	0	0	38	0	70
4:00 PM	0	0	0	1	0	2	4	27	0	3	39	0	76
4:15 PM	1	0	0	2	0	0	2	33	0	0	33	1	72
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	100.00%	0.00%	0.00%	41.67%	0.00%	58.33%	8.78%	91.22%	0.00%	2.99%	95.52%	1.49%	644
PEAK HR START TIME :	300 PM												TOTAL
PEAK HR VOL :	0	0	0	1	0	5	9	173	0	7	180	1	376
PEAK HR FACTOR :	0.000			0.500			0.607			0.701			0.648

UTURNS			
NB	SB	EB	WB
		2	0
		7	0
		2	3
		1	4
		1	0
		2	0
		4	1
		1	0

NB	SB	EB	WB
0	0	20	8

CONTROL : No Control

Intersection Turning Movement

Prepared by:

National Data & Surveying Services

Project ID: 16-5754-008

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

AM

NS/EW Streets:	Service Rd			Service Rd			Strathern St			Strathern St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
7:00 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
7:15 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
7:30 AM	0	0	0	0	0	0	0	0	0	0	2	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
8:00 AM	0	0	0	0	0	0	0	0	0	0	4	0	4
8:15 AM	0	0	0	0	0	0	0	1	0	0	2	0	3
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	15
PEAK HR START TIME :	7:00 AM												TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	2	0	0	5	0	7
PEAK HR FACTOR :	0.000			0.000			0.500			0.625			0.785

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : No Control

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-008

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

PM

NS/EW Streets:	Service Rd			Service Rd			Strathern St			Strathern St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
2:30 PM	0	0	0	0	0	0	0	0	0	0	2	0	2
2:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
3:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
3:15 PM	0	0	0	0	0	0	0	0	0	0	3	0	3
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	1	0	1
4:00 PM	0	0	0	0	0	0	0	0	0	0	2	0	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	9
PEAK HR START TIME :	300 PM												TOTAL
PEAK HR VOL :	0	0	0	0	0	0	0	1	0	0	4	0	5
PEAK HR FACTOR :	0.000			0.000			0.250			0.333			0.648

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : No Control

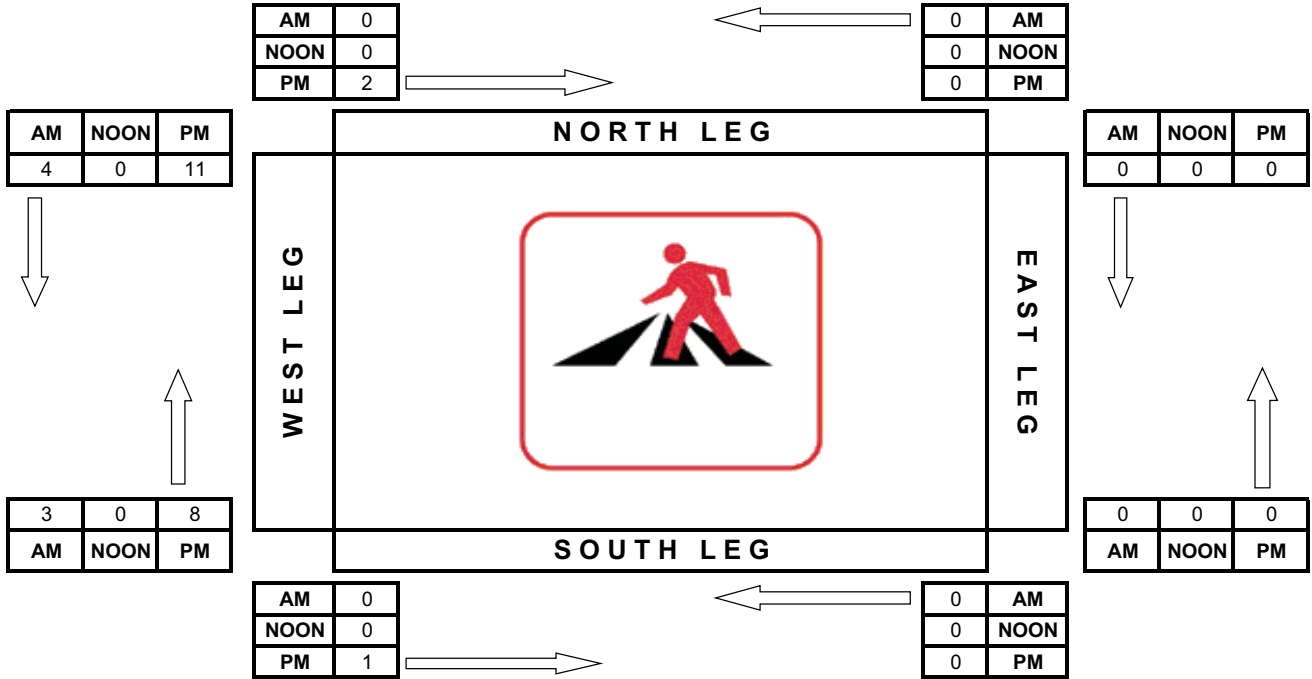
PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Pedestrian Count Peak Hour

PROJECT#: 16-5754-009
 N/S Street: Wilbur Ave
 E/W Street: Dwy 4
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30



PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Bicycle Count Peak Hour

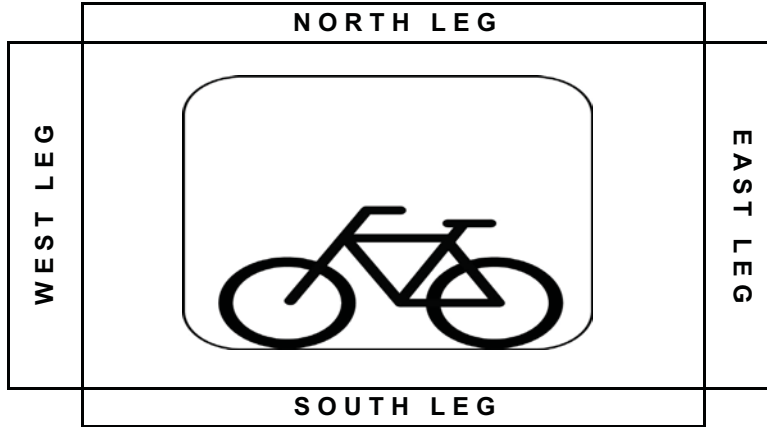
PROJECT#: 16-5754-009
 N/S Street: Wilbur Ave
 E/W Street: Dwy 4
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30

AM	0	2	0
NOON	0	0	0
PM	0	1	0

AM	NOON	PM
0	0	0
0	0	0
0	0	9



AM	NOON	PM
0	0	0
0	0	0
0	0	0

AM	7	0	0
NOON	0	0	0
PM	1	0	0

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5754-009
 N/S Street: Wilbur Ave
 E/W Street: Dwy 4
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

A M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
6:30 AM	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	1	1
7:30 AM	0	0	0	0	0	0	1	0
7:45 AM	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	2	1
8:15 AM	0	0	0	0	0	0	0	3
TOTALS	0	0	0	0	0	0	4	5

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:30 AM	1	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	1	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	1	0	0	0	0	0	0	0
7:15 AM	2	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	3	0	0	0	1	0	0	0	0	0	0	0
7:45 AM	2	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
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	9	0	0	0	2	0	0	0	0	0	0	0

P M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
2:30 PM	0	0	0	0	0	0	1	0
2:45 PM	0	0	0	0	0	0	0	3
3:00 PM	0	0	1	0	0	0	0	0
3:15 PM	2	0	0	0	0	0	3	1
3:30 PM	0	0	0	0	0	0	5	7
3:45 PM	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0
TOTALS	2	0	1	0	0	0	9	12

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
2:30 PM	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
3:00 PM	0	0	0	0	1	0	0	0	7	0	0	0
3:15 PM	1	0	0	0	0	0	0	0	2	0	0	0
3:30 PM	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
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	1	0	0	1	0	0	0	0	0	0	0
TOTALS	1	1	0	0	2	0	0	0	9	0	0	0

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-009

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

NS/EW Streets:	AM												TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:30 AM	1	59	0	0	98	0	0	0	0	0	0	0	158
6:45 AM	0	95	0	0	113	1	1	0	0	0	0	0	210
7:00 AM	2	86	0	0	132	3	1	0	3	0	0	0	227
7:15 AM	8	141	0	0	189	3	2	0	8	0	0	0	351
7:30 AM	14	183	0	4	188	13	9	0	11	0	0	0	422
7:45 AM	28	197	0	3	184	10	9	0	26	0	0	0	457
8:00 AM	1	143	0	0	171	0	0	0	2	0	0	0	317
8:15 AM	1	108	0	0	131	2	2	0	1	0	0	0	245
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	5.15%	94.85%	0.00%	0.56%	96.87%	2.57%	32.00%	0.00%	68.00%	#DIV/0!	#DIV/0!	#DIV/0!	2387
PEAK HR START TIME :	7:15 AM												TOTAL
PEAK HR VOL :	51	664	0	7	732	26	20	0	47	0	0	0	1547
PEAK HR FACTOR :	0.794			0.933			0.479			0.000			0.846

UTURNS			
NB	SB	EB	WB
0	0		
0	0		
0	0		
0	0		
1	4		
0	3		
0	0		
0	0		
NB	SB	EB	WB
1	7	0	0

CONTROL : No Control

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-009

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

PM

NS/EW Streets:	Wilbur Ave		Wilbur Ave			Dwy 4			Dwy 4			TOTAL	
	NORTHBOUND		SOUTHBOUND			EASTBOUND			WESTBOUND				
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
	0	2	0	0	1	0	0	1	0	0	0	0	
2:30 PM	3	143	0	0	98	1	1	0	2	0	0	0	248
2:45 PM	1	136	0	0	98	1	0	0	0	0	0	0	236
3:00 PM	7	140	0	0	117	4	4	0	10	0	0	0	282
3:15 PM	3	177	0	0	132	3	1	0	16	0	0	0	332
3:30 PM	3	146	0	0	124	3	1	0	5	0	0	0	282
3:45 PM	4	130	0	0	119	2	1	0	2	0	0	0	258
4:00 PM	3	154	0	0	128	1	1	0	2	0	0	0	289
4:15 PM	3	160	0	0	129	1	3	0	4	0	0	0	300
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	2.23%	97.77%	0.00%	0.00%	98.34%	1.66%	22.64%	0.00%	77.36%	#DIV/0!	#DIV/0!	#DIV/0!	2227
PEAK HR START TIME :	3:15 PM												TOTAL
PEAK HR VOL :	13	607	0	0	503	9	4	0	25	0	0	0	1161
PEAK HR FACTOR :	0.861		0.948			0.426			0.000			0.874	

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : No Control

ITM Peak Hour Summary

Prepared by:

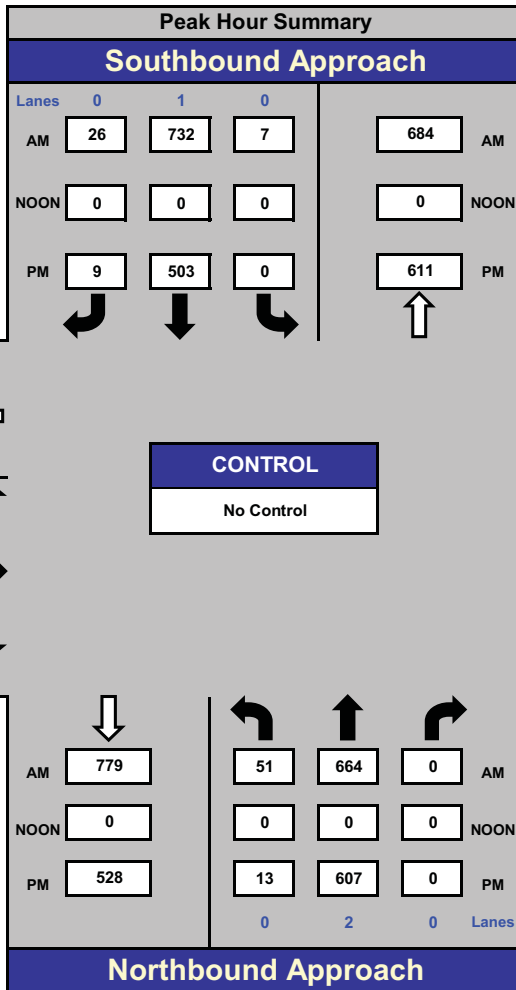


National Data & Surveying Services

Wilbur Ave and Dwy 4, Reseda

Date: 11/16/2016
Day: Wednesday

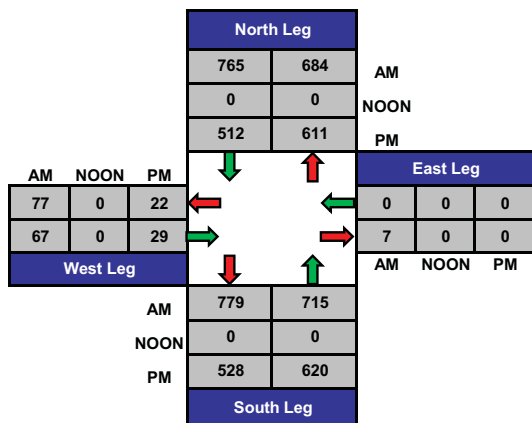
Project #: 16-5754-009
City: Reseda



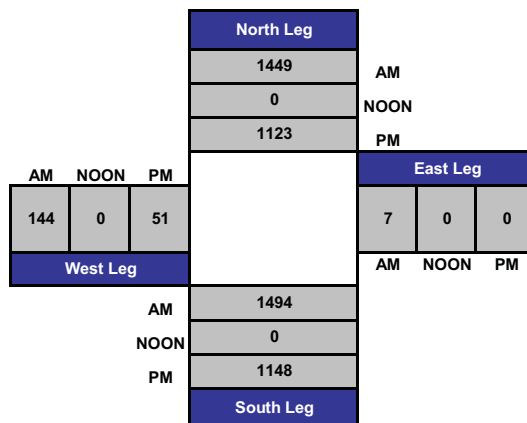
AM Peak Hour	7:15 AM
NOON Peak Hour	
PM Peak Hour	3:15 PM

Count Periods	Start	End
AM	6:30 AM	8:30 AM
NOON	NONE	NONE
PM	2:30 PM	4:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-009

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

NS/EW Streets:	AM												TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
6:30 AM	1	57	0	0	96	0	0	0	0	0	0	0	154
6:45 AM	0	94	0	0	112	1	1	0	0	0	0	0	208
7:00 AM	2	84	0	0	130	3	1	0	3	0	0	0	223
7:15 AM	8	140	0	0	188	3	2	0	8	0	0	0	349
7:30 AM	14	182	0	4	187	13	9	0	11	0	0	0	420
7:45 AM	28	196	0	3	181	10	9	0	26	0	0	0	453
8:00 AM	1	140	0	0	167	0	0	0	2	0	0	0	310
8:15 AM	1	103	0	0	129	2	2	0	1	0	0	0	238
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	55	996	0	7	1190	32	24	0	51	0	0	0	2355
	5.23%	94.77%	0.00%	0.57%	96.83%	2.60%	32.00%	0.00%	68.00%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	7:15 AM												TOTAL
PEAK HR VOL :	51	658	0	7	723	26	20	0	47	0	0	0	1532
PEAK HR FACTOR :	0.791			0.926			0.479			0.000			0.845

CONTROL : No Control

UTURNS			
NB	SB	EB	WB
0	0		
0	0		
0	0		
0	0		
1	4		
0	3		
0	0		
0	0		

NB	SB	EB	WB
1	7	0	0

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-009

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

PM

NS/EW Streets:	Wilbur Ave			Wilbur Ave			Dwy 4			Dwy 4			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
	0	2	0	0	1	0	0	1	0	0	0	0	
2:30 PM	3	142	0	0	96	1	1	0	2	0	0	0	245
2:45 PM	1	133	0	0	97	1	0	0	0	0	0	0	232
3:00 PM	7	132	0	0	112	4	4	0	10	0	0	0	269
3:15 PM	3	177	0	0	132	3	1	0	9	0	0	0	325
3:30 PM	3	143	0	0	123	3	1	0	5	0	0	0	278
3:45 PM	4	129	0	0	117	2	1	0	2	0	0	0	255
4:00 PM	3	153	0	0	128	1	1	0	2	0	0	0	288
4:15 PM	3	159	0	0	129	1	3	0	4	0	0	0	299
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	27	1168	0	0	934	16	12	0	34	0	0	0	2191
	2.26%	97.74%	0.00%	0.00%	98.32%	1.68%	26.09%	0.00%	73.91%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	315 PM												TOTAL
PEAK HR VOL :	13	602	0	0	500	9	4	0	18	0	0	0	1146
PEAK HR FACTOR :	0.854		0.943			0.550			0.000			0.882	

CONTROL : No Control

UTURNS

NB	SB	EB	WB
----	----	----	----

NB	SB	EB	WB
0	0	0	0

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-009

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

AM

NS/EW Streets:	Wilbur Ave			Wilbur Ave			Dwy 4			Dwy 4			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	4
6:45 AM	0	1	0	0	1	0	0	0	0	0	0	0	2
7:00 AM	0	2	0	0	2	0	0	0	0	0	0	0	4
7:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	2
7:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	2
7:45 AM	0	1	0	0	3	0	0	0	0	0	0	0	4
8:00 AM	0	3	0	0	4	0	0	0	0	0	0	0	7
8:15 AM	0	5	0	0	2	0	0	0	0	0	0	0	7
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	0	16	0	0	16	0	0	0	0	0	0	0	32
	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	7:15 AM												TOTAL
PEAK HR VOL :	0	6	0	0	9	0	0	0	0	0	0	0	15
PEAK HR FACTOR :	0.500			0.563			0.000			0.000			0.845

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : No Control

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-009

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

PM

NS/EW Streets:	Wilbur Ave			Wilbur Ave			Dwy 4			Dwy 4			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
2:30 PM	0	1	0	0	2	0	0	0	0	0	0	0	3
2:45 PM	0	3	0	0	1	0	0	0	0	0	0	0	4
3:00 PM	0	8	0	0	5	0	0	0	0	0	0	0	13
3:15 PM	0	0	0	0	0	0	0	0	7	0	0	0	7
3:30 PM	0	3	0	0	1	0	0	0	0	0	0	0	4
3:45 PM	0	1	0	0	2	0	0	0	0	0	0	0	3
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	0	18	0	0	11	0	0	0	7	0	0	0	36
	0.00%	100.00%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	100.00%	#DIV/0!	#DIV/0!	#DIV/0!	
PEAK HR START TIME :	315 PM												TOTAL
PEAK HR VOL :	0	5	0	0	3	0	0	0	7	0	0	0	15
PEAK HR FACTOR :	0.417		0.375			0.250			0.000			0.882	

CONTROL : No Control

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

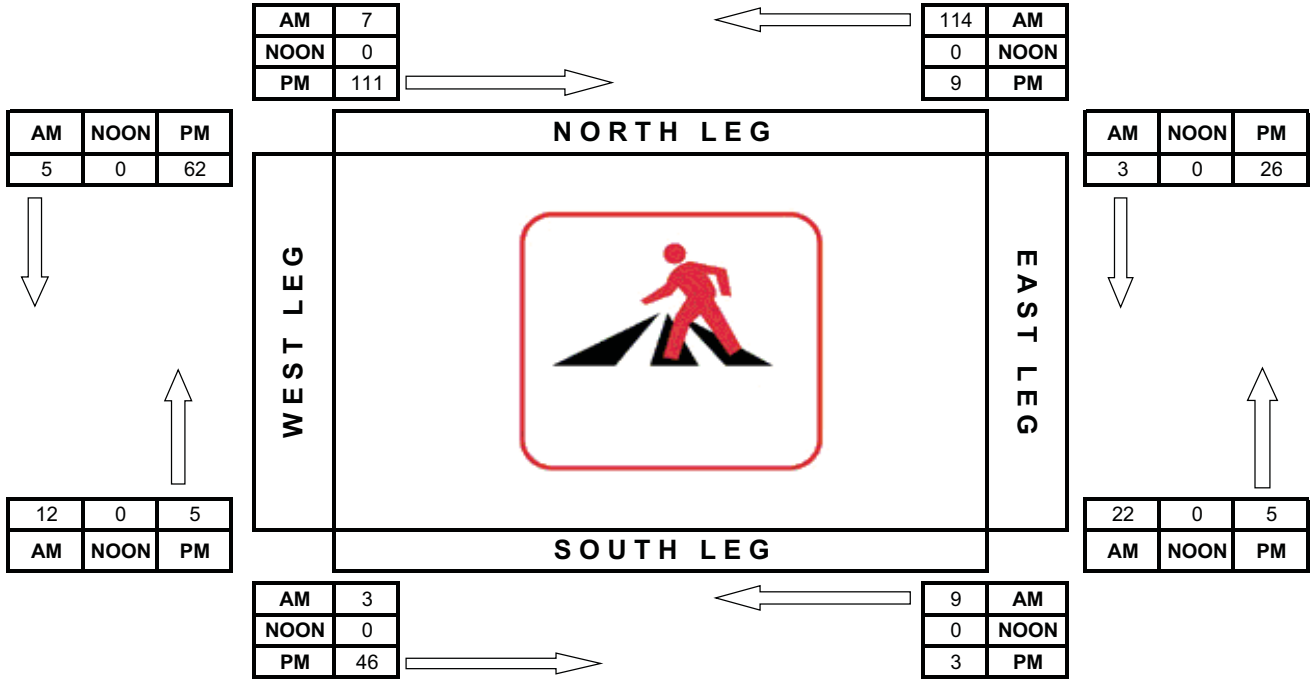
PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Pedestrian Count Peak Hour

PROJECT#: 16-5754-010
 N/S Street: Wilbur Ave
 E/W Street: Strathern St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30



PREPARED BY NATIONAL DATA & SURVEYING SERVICES

Bicycle Count Peak Hour

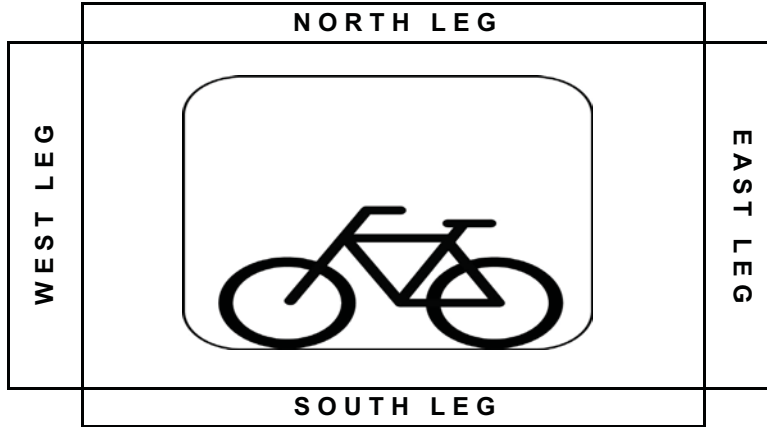
PROJECT#: 16-5754-010
 N/S Street: Wilbur Ave
 E/W Street: Strathern St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

	Start:	End:
AM	6:30	8:30
NOON		
PM	14:30	16:30

AM	1	0	1
NOON	0	0	0
PM	0	1	4

AM	NOON	PM
0	0	0
0	0	2
2	0	0



AM	NOON	PM
8	0	0
2	0	1
0	0	0

AM	1	0	0
NOON	0	0	0
PM	0	0	0

PREPARED BY NATIONAL DATA & SURVEYING SERVICES

PROJECT#: 16-5754-010
 N/S Street: Wilbur Ave
 E/W Street: Strathern St
 DATE: 11/16/2016
 CITY: Reseda

DAY: Wednesday

A M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
6:30 AM	0	3	0	1	2	0	0	0
6:45 AM	1	9	0	0	3	0	1	0
7:00 AM	0	6	0	0	1	0	1	0
7:15 AM	2	25	0	0	1	0	2	1
7:30 AM	2	38	0	6	9	0	5	0
7:45 AM	2	48	2	3	11	2	5	2
8:00 AM	1	3	1	0	1	1	0	2
8:15 AM	2	3	0	0	1	1	1	1
TOTALS	10	135	3	10	29	4	15	6

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	1
6:45 AM	0	1	0	0	0	0	0	0	0	0	0	0
7:00 AM	1	0	0	1	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	2
7:30 AM	0	0	0	0	0	1	0	0	2	0	1	4
7:45 AM	0	0	0	0	0	0	0	0	0	0	1	2
8:00 AM	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
TOTALS	1	1	0	1	0	1	0	0	2	0	2	9

P M

PEDESTRIANS

T I M E	NORTH LEG		SOUTH LEG		EAST LEG		WEST LEG	
	EB	WB	EB	WB	NB	SB	NB	SB
2:30 PM	0	0	0	1	0	0	0	1
2:45 PM	1	2	0	0	0	0	0	5
3:00 PM	42	2	17	2	0	10	0	20
3:15 PM	58	4	24	1	3	11	2	31
3:30 PM	10	1	5	0	2	5	3	6
3:45 PM	5	0	0	0	0	1	0	1
4:00 PM	0	0	0	0	0	0	0	0
4:15 PM	5	0	0	1	0	0	0	1
TOTALS	121	9	46	5	5	27	5	65

BIKES

T I M E	NB			SB			EB			WB		
	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR
2:30 PM	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
3:00 PM	0	0	0	3	0	0	0	1	0	0	0	0
3:15 PM	0	0	0	1	1	0	0	0	0	0	0	0
3:30 PM	0	0	0	0	0	0	0	1	0	0	0	0
3:45 PM	0	0	0	0	0	0	0	0	0	0	1	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	1	0
4:15 PM	0	0	0	1	0	0	1	0	0	0	0	0
TOTALS	0	0	0	5	1	0	1	2	0	0	2	0

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-010

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

NS/EW Streets:	Wilbur Ave		Wilbur Ave			Strathern St			Strathern St			TOTAL	
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	
6:30 AM	5	47	8	6	89	4	1	4	10	3	7	12	196
6:45 AM	8	81	4	5	101	8	2	8	14	6	26	12	275
7:00 AM	20	81	8	6	110	16	4	9	12	12	19	8	305
7:15 AM	27	127	5	2	171	24	8	20	17	12	41	17	471
7:30 AM	49	156	15	16	152	31	14	23	26	17	48	29	576
7:45 AM	32	174	6	23	171	16	12	34	21	7	46	31	573
8:00 AM	12	129	7	8	155	10	6	8	5	11	18	8	377
8:15 AM	15	102	4	4	128	1	2	9	11	8	12	8	304
TOTAL VOLUMES :	NL 168	NT 897	NR 57	SL 70	ST 1077	SR 110	EL 49	ET 115	ER 116	WL 76	WT 217	WR 125	TOTAL 3077
APPROACH %'s :	14.97%	79.95%	5.08%	5.57%	85.68%	8.75%	17.50%	41.07%	41.43%	18.18%	51.91%	29.90%	
PEAK HR START TIME :	7:15 AM												TOTAL
PEAK HR VOL :	120	586	33	49	649	81	40	85	69	47	153	85	1997
PEAK HR FACTOR :	0.840			0.927			0.724			0.758			0.867

UTURNS			
NB	SB	EB	WB

NB 0	SB 0	EB 0	WB 0
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CONTROL : Signalized

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-010

Day: Wednesday

City: Reseda

TOTALS

Date: 11/16/2016

PM

NS/EW Streets:	Wilbur Ave			Wilbur Ave			Strathern St			Strathern St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	
2:30 PM	8	133	3	7	86	8	3	10	5	9	19	7	298
2:45 PM	13	120	3	6	78	14	3	9	3	6	17	12	284
3:00 PM	17	132	10	11	97	16	9	19	13	5	17	9	355
3:15 PM	26	150	10	21	112	13	24	42	37	2	18	10	465
3:30 PM	13	132	10	13	97	12	8	18	12	2	18	11	346
3:45 PM	13	118	5	9	101	10	7	12	11	3	16	7	312
4:00 PM	14	152	6	10	115	11	8	22	8	8	23	6	383
4:15 PM	14	142	7	12	113	9	8	13	11	4	12	8	353
TOTAL VOLUMES :	118	1079	54	89	799	93	70	145	100	39	140	70	2796
APPROACH %'s :	9.43%	86.25%	4.32%	9.07%	81.45%	9.48%	22.22%	46.03%	31.75%	15.66%	56.22%	28.11%	
PEAK HR START TIME :	315 PM												TOTAL
PEAK HR VOL :	66	552	31	53	425	46	47	94	68	15	75	34	1506
PEAK HR FACTOR :	0.872			0.897			0.507			0.838			0.810

UTURNS			
NB	SB	EB	WB

NB 0	SB 0	EB 0	WB 0
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CONTROL : Signalized

ITM Peak Hour Summary

Prepared by:

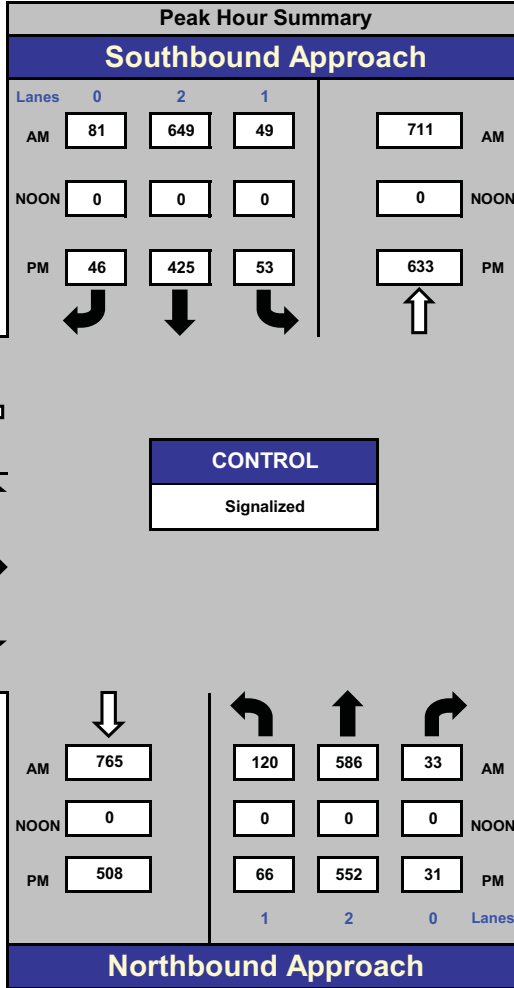


National Data & Surveying Services

Wilbur Ave and Strathern St., Reseda

Date: 11/16/2016
Day: Wednesday

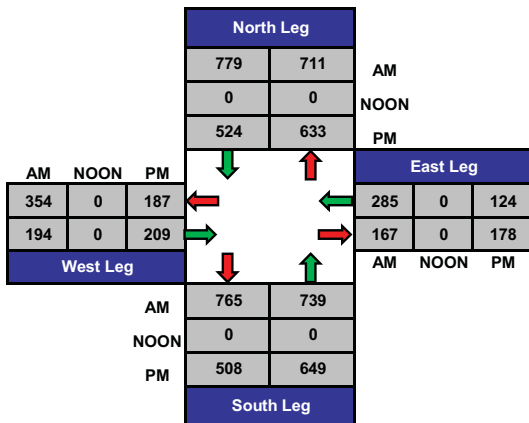
Project #: 16-5754-010
City: Reseda



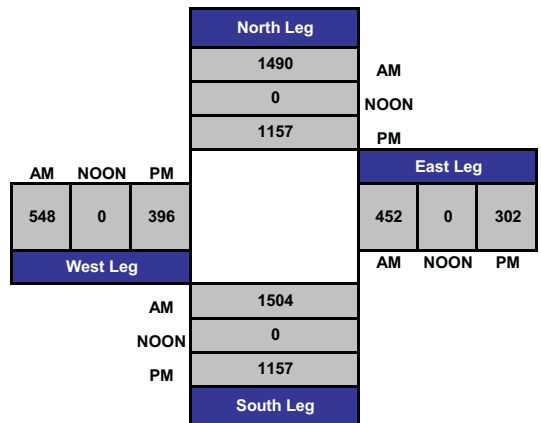
AM Peak Hour	715 AM
NOON Peak Hour	
PM Peak Hour	315 PM

Count Periods	Start	End
AM	6:30 AM	8:30 AM
NOON	NONE	NONE
PM	2:30 PM	4:30 PM

Total Ins & Outs



Total Volume Per Leg



Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-010

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

AM

NS/EW Streets:	Wilbur Ave			Wilbur Ave			Strathern St			Strathern St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	
6:30 AM	5	45	8	6	87	4	1	4	10	3	7	12	192
6:45 AM	7	80	4	5	100	8	2	8	14	6	26	12	272
7:00 AM	19	80	7	5	109	16	3	9	12	12	19	8	299
7:15 AM	27	126	5	2	170	24	8	19	17	11	40	17	466
7:30 AM	48	155	15	16	151	31	14	23	26	17	47	29	572
7:45 AM	31	173	6	22	169	16	12	34	21	7	46	31	568
8:00 AM	12	126	7	8	152	9	6	8	5	11	15	8	367
8:15 AM	14	97	4	4	126	1	2	8	11	8	11	7	293
TOTAL VOLUMES :	NL 163	NT 882	NR 56	SL 68	ST 1064	SR 109	EL 48	ET 113	ER 116	WL 75	WT 211	WR 124	TOTAL 3029
APPROACH %'s :	14.80%	80.11%	5.09%	5.48%	85.74%	8.78%	17.33%	40.79%	41.88%	18.29%	51.46%	30.24%	
PEAK HR START TIME :	7:15 AM												TOTAL
PEAK HR VOL :	118	580	33	48	642	80	40	84	69	46	148	85	1973
PEAK HR FACTOR :	0.838			0.930			0.720			0.750			0.862

UTURNS			
NB	SB	EB	WB

NB 0	SB 0	EB 0	WB 0
---------	---------	---------	---------

CONTROL : Signalized

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-010

Day: Wednesday

City: Reseda

Cars

Date: 11/16/2016

PM

NS/EW Streets:	Wilbur Ave			Wilbur Ave			Strathern St			Strathern St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	
2:30 PM	8	133	3	7	84	8	3	10	5	9	17	6	293
2:45 PM	13	118	3	6	77	14	3	9	3	6	17	11	280
3:00 PM	17	125	10	11	92	16	8	19	13	5	17	9	342
3:15 PM	26	150	9	20	106	13	24	42	37	2	15	10	454
3:30 PM	13	129	9	13	96	12	8	18	12	2	18	11	341
3:45 PM	13	117	5	9	100	9	7	12	11	3	15	7	308
4:00 PM	13	151	6	10	115	11	8	22	8	8	23	6	381
4:15 PM	14	141	7	12	113	9	8	13	11	4	12	8	352
TOTAL VOLUMES :	NL 117	NT 1064	NR 52	SL 88	ST 783	SR 92	EL 69	ET 145	ER 100	WL 39	WT 134	WR 68	TOTAL 2751
APPROACH %'s :	9.49%	86.29%	4.22%	9.14%	81.31%	9.55%	21.97%	46.18%	31.85%	16.18%	55.60%	28.22%	
PEAK HR START TIME :	315 PM												TOTAL
PEAK HR VOL :	65	547	29	52	417	45	47	94	68	15	71	34	1484
PEAK HR FACTOR :	0.866			0.924			0.507			0.811			0.817

UTURNS			
NB	SB	EB	WB

NB 0	SB 0	EB 0	WB 0
---------	---------	---------	---------

CONTROL : Signalized

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-010

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

AM

NS/EW Streets:	Wilbur Ave			Wilbur Ave			Strathern St			Strathern St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
6:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	4
6:45 AM	1	1	0	0	1	0	0	0	0	0	0	0	3
7:00 AM	1	1	1	1	1	0	1	0	0	0	0	0	6
7:15 AM	0	1	0	0	1	0	0	1	0	1	1	0	5
7:30 AM	1	1	0	0	1	0	0	0	0	0	1	0	4
7:45 AM	1	1	0	1	2	0	0	0	0	0	3	0	5
8:00 AM	0	3	0	0	3	1	0	0	0	0	3	0	10
8:15 AM	1	5	0	0	2	0	0	1	0	0	1	1	11
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	23.81%	71.43%	4.76%	12.50%	81.25%	6.25%	33.33%	66.67%	0.00%	12.50%	75.00%	12.50%	48
PEAK HR START TIME :	7:15 AM												TOTAL
PEAK HR VOL :	2	6	0	1	7	1	0	1	0	1	5	0	24
PEAK HR FACTOR :	0.667			0.563			0.250			0.500			0.862

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : Signalized

Intersection Turning Movement

Prepared by:
National Data & Surveying Services

Project ID: 16-5754-010

Day: Wednesday

City: Reseda

Buses

Date: 11/16/2016

PM

NS/EW Streets:	Wilbur Ave			Wilbur Ave			Strathern St			Strathern St			TOTAL
	NORTHBOUND			SOUTHBOUND			EASTBOUND			WESTBOUND			
LANES:	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	
	1	2	0	1	2	0	0	1	0	0	1	0	
2:30 PM	0	0	0	0	2	0	0	0	0	0	2	1	5
2:45 PM	0	2	0	0	1	0	0	0	0	0	0	1	4
3:00 PM	0	7	0	0	5	0	1	0	0	0	0	0	13
3:15 PM	0	0	1	1	6	0	0	0	0	0	3	0	11
3:30 PM	0	3	1	0	1	0	0	0	0	0	0	0	5
3:45 PM	0	1	0	0	1	1	0	0	0	0	1	0	4
4:00 PM	1	1	0	0	0	0	0	0	0	0	0	0	2
4:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
TOTAL VOLUMES :	NL	NT	NR	SL	ST	SR	EL	ET	ER	WL	WT	WR	TOTAL
APPROACH %'s :	1	15	2	1	16	1	1	0	0	0	6	2	45
	5.56%	83.33%	11.11%	5.56%	88.89%	5.56%	100.00%	0.00%	0.00%	0.00%	75.00%	25.00%	
PEAK HR START TIME :	315 PM												TOTAL
PEAK HR VOL :	1	5	2	1	8	1	0	0	0	0	4	0	22
PEAK HR FACTOR :	0.500			0.357			0.000			0.333			0.817

UTURNS			
NB	SB	EB	WB

NB	SB	EB	WB
0	0	0	0

CONTROL : Signalized

STUDENT DROP-OFF/PICK-UP STUDY

Location: Cleveland Charter High School

City: Reseda

Day: Wednesday

Date: 11/16/2016

Zone 1 Cantara St bet. Vanalden Ave & cul-de-sac	
Time	# of Vehicles Dropping Off Students
6:30	1
6:45	19
7:00	26
7:15	22
7:30	23
7:45	14
8:00	0
8:15	1

Zone 2 Vanalden Ave Bet. Cantara St and Lanark St	
Time	# of Vehicles Dropping Off Students
6:30	22
6:45	32
7:00	39
7:15	90
7:30	63
7:45	91
8:00	30
8:15	6

Zone 3 Strathern St Bet. Vanalden Ave & approx. 200 ft. east of School Dwy	
Time	# of Vehicles Dropping Off Students
6:30	1
6:45	12
7:00	14
7:15	44
7:30	55
7:45	51
8:00	20
8:15	18

Zone 1 Cantara St bet. Vanalden Ave & cul-de-sac	
Time	# of Vehicles Picking Up Students
14:30	0
14:45	1
15:00	2
15:15	4
15:30	1
15:45	0
16:00	1
16:15	1

Zone 2 Vanalden Ave Bet. Cantara St and Lanark St	
Time	# of Vehicles Picking Up Students
14:30	1
14:45	6
15:00	38
15:15	59
15:30	33
15:45	14
16:00	13
16:15	7

Zone 3 Strathern St Bet. Vanalden Ave & approx. 200 ft. east of School Dwy	
Time	# of Vehicles Picking Up Students
14:30	7
14:45	3
15:00	25
15:15	44
15:30	13
15:45	5
16:00	10
16:15	10

Appendix H

EMF Survey

January 2017 | Los Angeles Unified School District

EMF Survey

Cleveland Charter High School, Reseda, California

Prepared for:

Los Angeles Unified School District
Office of Environmental Health & Safety
Contact: Ms. Linda Wilde, CEQA Project Manager
333 S Beaudry Avenue, 21st Floor
Los Angeles, CA 90017
213.241.4821

Project Number:
LASD1-29.0

Prepared by:

PlaceWorks
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info@placeworks.com
www.placeworks.com

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Appendix A.	EMF Monitoring Results
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1. Introduction

This report presents results of an electric and magnetic field (EMF) survey conducted on November 3, 2016 for Cleveland Charter High School (Cleveland HS), located at 8140 Vanalden Avenue, Reseda, CA (Figure 1). The EMF survey was performed at the request of the Los Angeles Unified School District (LAUSD) Office of Environmental Health and Safety (OEHS).

A Los Angeles Department of Water and Power (LADWP) multi-circuit 230 kV overhead transmission line is located in a transmission line Right-of-Way (ROW) adjacent to and east of the school site. The 230 kV power lines are supported by steel lattice towers within the ROW. The school boundary adjacent to the ROW is approximately 35 feet from the base of the lattice towers supporting the 230 kV transmission lines. The school boundary is approximately 26 feet from the closest high voltage transmission line, projected at ground level.

The OEHS commissioned this EMF field survey and report of survey findings in response to concerns expressed by interested parties related to potential EMF exposure of school occupants from the nearby LADWP transmission line, including with respect to proposed comprehensive modifications at the site. Proposed modifications at the school site include removal of portables, modifications of existing buildings, and construction of new buildings.

At the time of the approved scope of work and the primary field survey on November 3, 2016, information provided to PlaceWorks indicated the rated capacity of the LADWP power line was 127 kV. PlaceWorks performed a secondary field reconnaissance of the ROW on November 12, 2016, and subsequently contacted LADWP and confirmed that the high voltage line was a multi-circuit 230 kV line¹. In addition, a second power line on wood poles is present within the ROW, approximately three to five feet from the school boundary/edge of ROW. We confirmed with LADWP that this second power line is a 34.5 kV distribution line².

¹ Personal communication, Mr. Bill Helfrich, LADWP High Voltage Transmission Line Engineer, 818.771.5014, November 16, 2016

² Personal communication, Mr. Jason Darby, LADWP (Distribution Lines) , 818.771.3968 and Jason.darby@ladwp.com , November 15, 2016

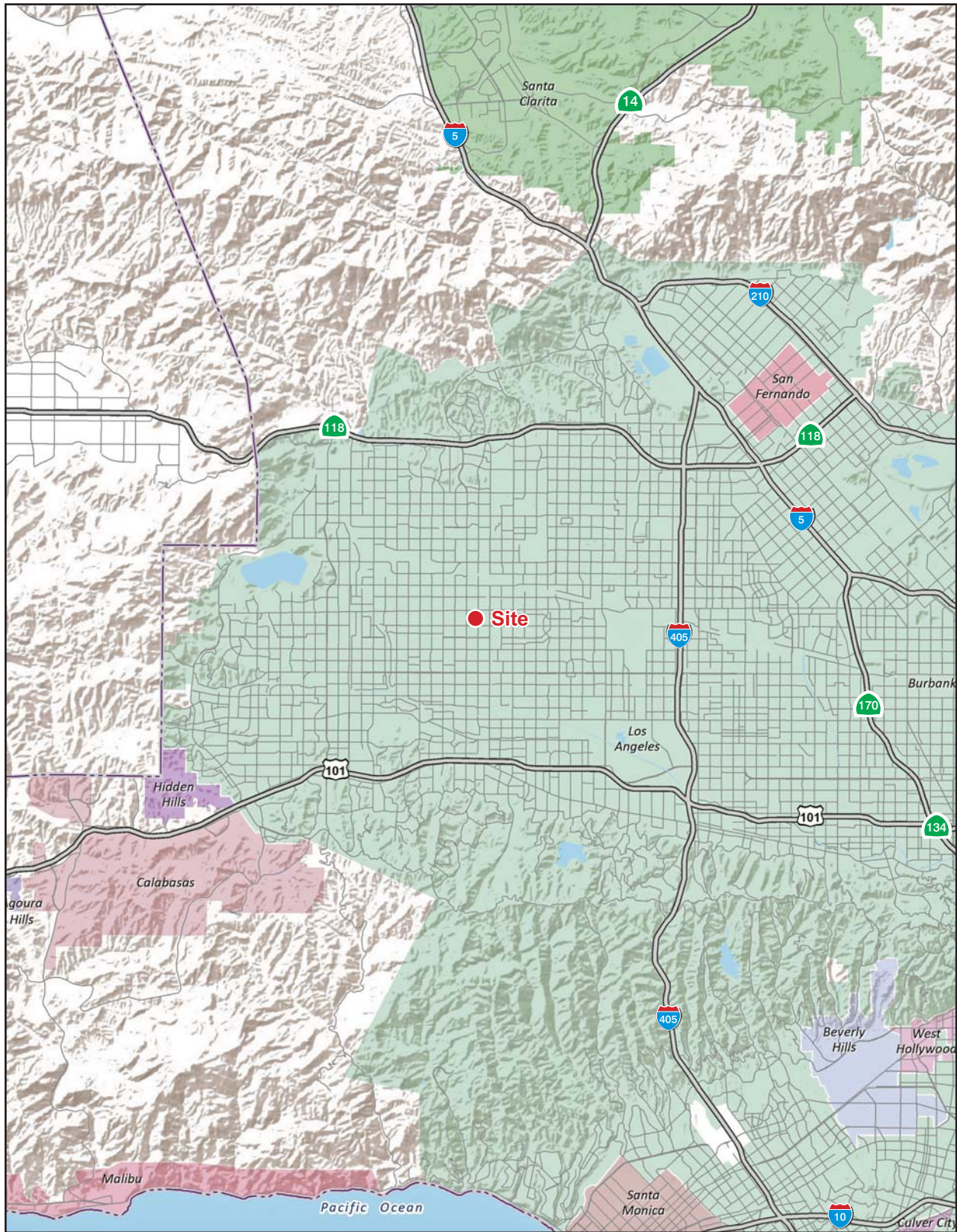
2. Scope of Work

The scope of work for this EMF survey encompassed measuring magnetic field strength at outdoor locations across portions of the school site, and at background locations near the school site, on November 3, 2016 (Figure 2). Two rounds of monitoring results were collected at each monitoring point on the school site and at the background locations. A total of 112 measurements of magnetic field strength were collected on the school site and 40 measurements were collected at background locations.

Readings were recorded in milligauss (mG) using an Emdex “Snap” 3-Axis magnetic field strength meter. Each of the three-axis sensors measures the magnetic field and the meter calculates a resultant field value, which is the root square mean reading. The EMDEX Snap meter has a range of 0.1 milliGauss (mG) up to 1,000 mG. The meter displays resultant magnetic field levels every 0.5 seconds with an accuracy of + or - 1%.

Figure 2 shows both the school site and background monitoring locations. Figure 3 in this report shows only the school site monitoring locations at a smaller (close up) scale. Figure 4 shows the preferred school modernization design concept. Figure 5 shows the monitoring locations projected onto the preferred school modernization design concept. Tables A-1 and A-2 (in Appendix A) present magnetic field strength readings (expressed as mG) collected at all school site and background locations, respectively. The tables also show calculated average EMF values for the school site and background area, as well as standard deviation calculated for the average background values.

Figure 1 - Site Location

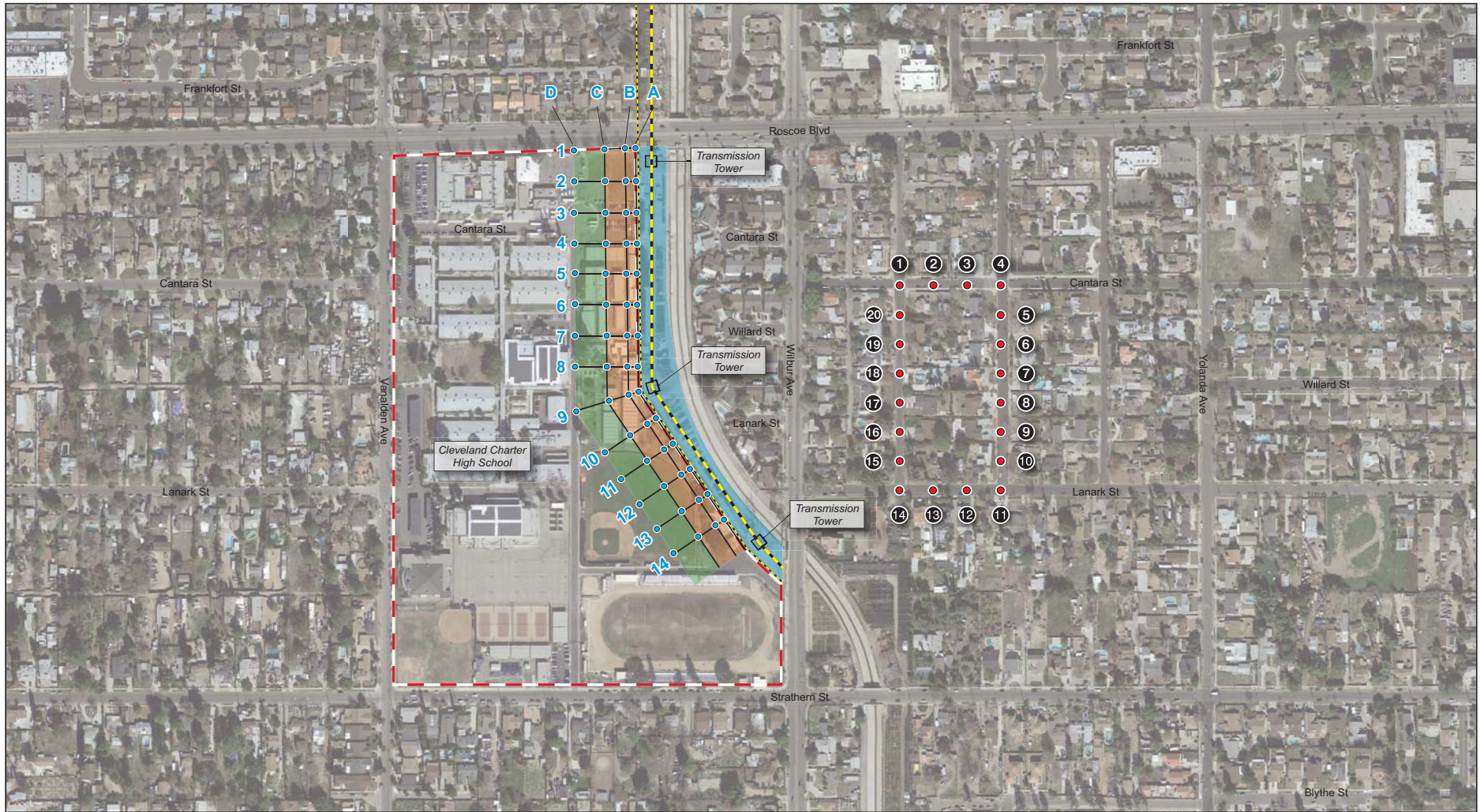


Note: Unincorporated areas are shown in white.



Base Map Source: ESRI, 2016

Figure 2 - School Site and Background EMF Monitoring Points



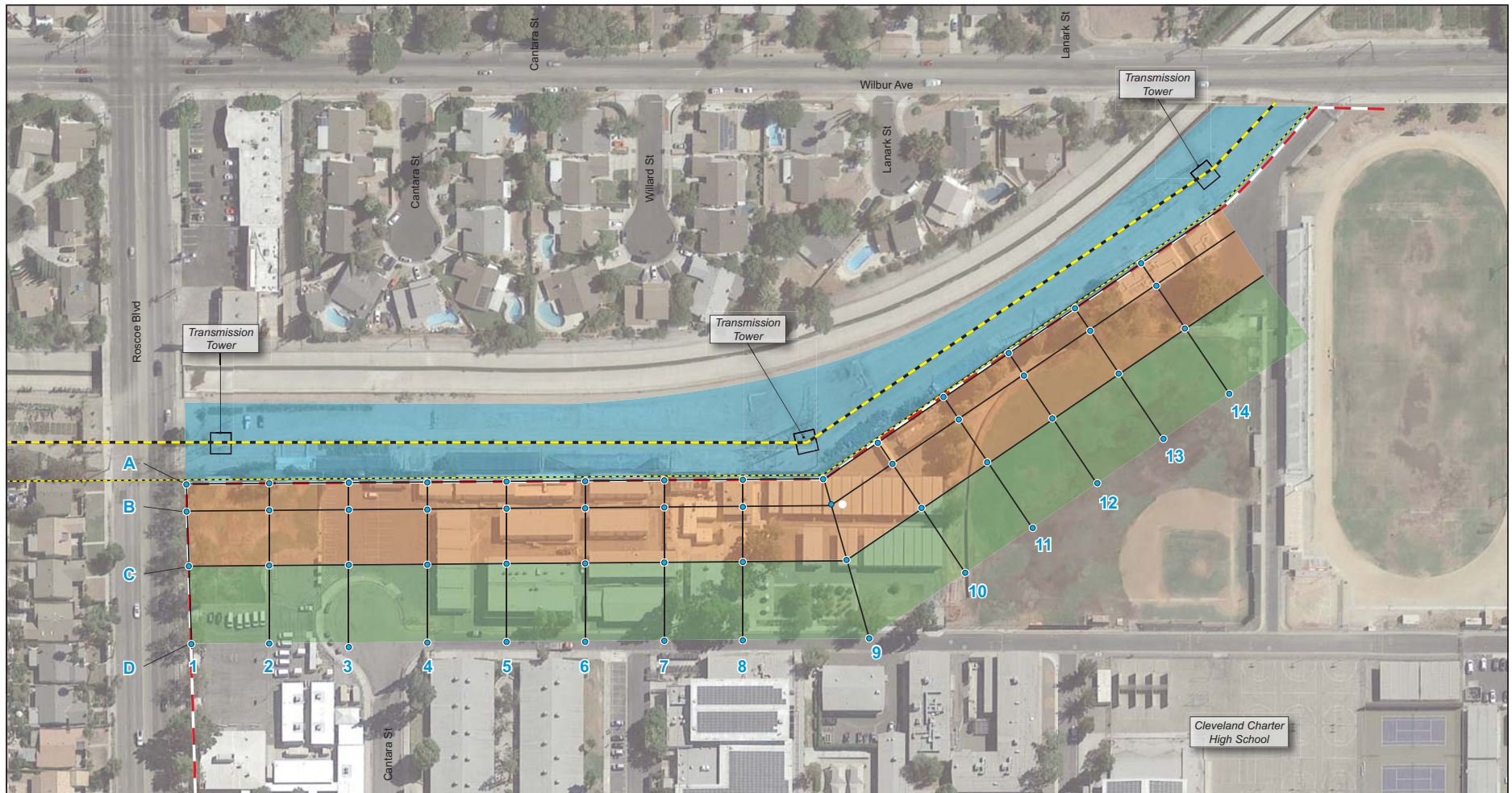
School Site Boundary	100' Setback	Right-of-Way (ROW)	Overhead 230 kV Transmission Lines	School Site EMF Monitoring Points
Transmission Towers (3)	200' Setback		Overhead Secondary Transmission Line	Background EMF Monitoring Points (20)

0 300
Scale (Feet)

Base Map Source: Google Earth Pro, 2016



Figure 3 - School Site EMF Monitoring Points



- School Site Boundary
- Transmission Towers (3)
- 100' Setback
- 200' Setback
- Right-of-Way (ROW)
- Overhead 230 kV Transmission Lines
- Overhead Secondary Transmission Line
- A-1 ● School Site EMF Test Points

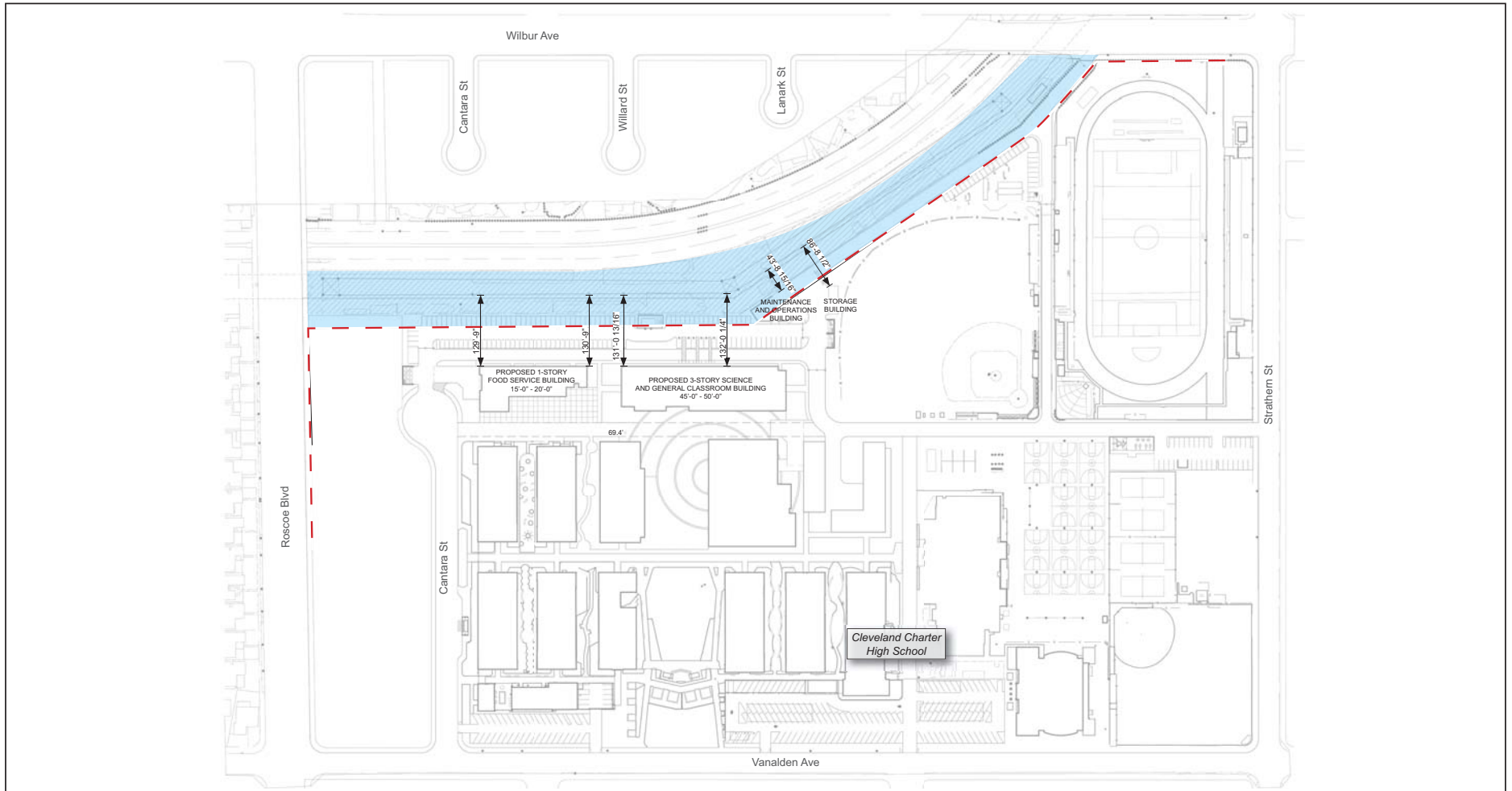
Base Map Source: Google Earth Pro, 2016

0 130
 Scale (Feet)



PlaceWorks

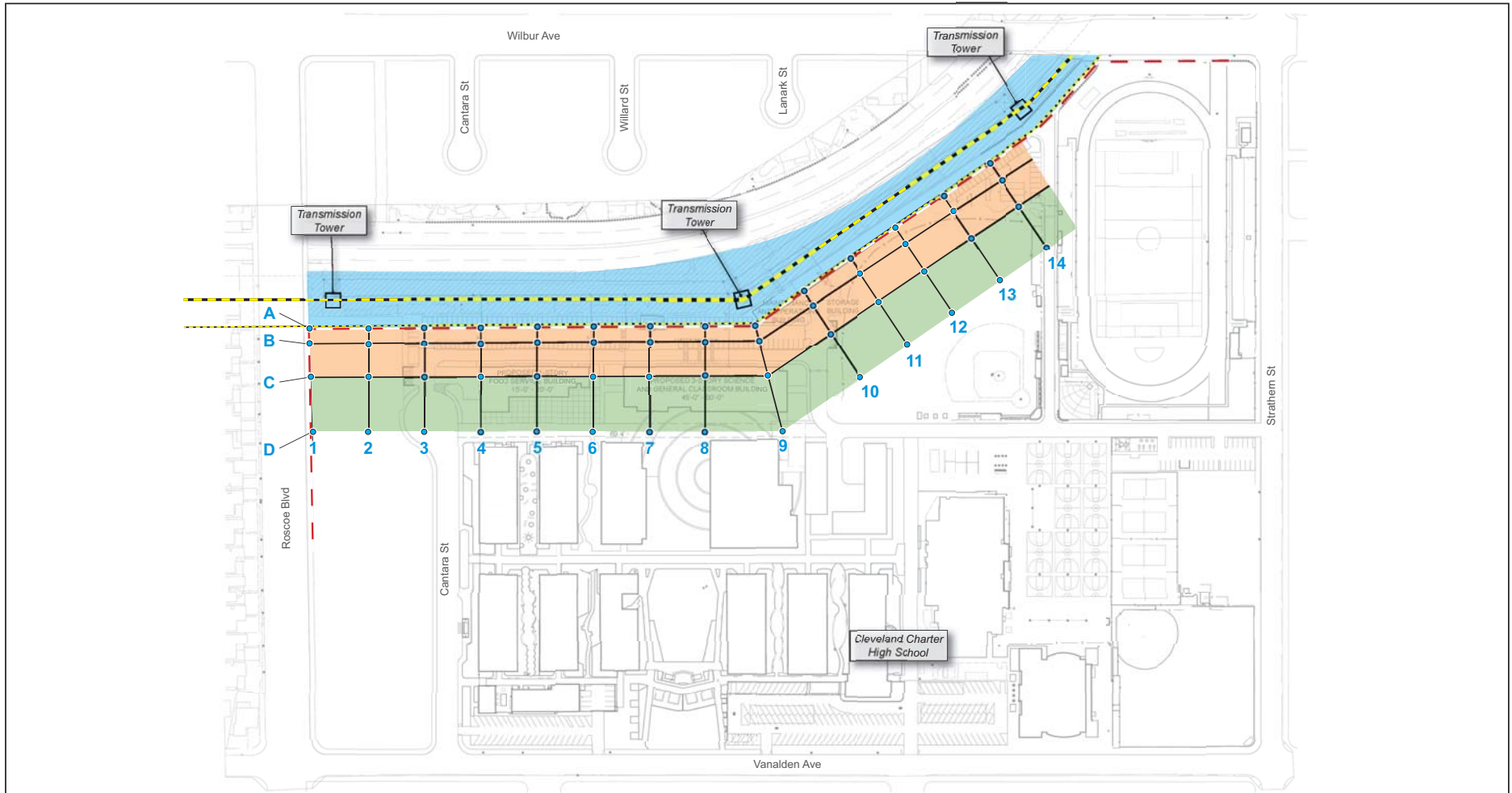
Figure 4 - Preferred School Site Modernization Design



- School Site Boundary
- Right-of-Way (ROW)



Figure 5 - Preferred School Site Modernization Design with EMF Monitoring Points



- School Site Boundary
- Transmission Towers (3)
- 100' Setback
- 200' Setback
- Right-of-Way (ROW)
- Overhead 230 kV Transmission Lines
- Overhead Secondary Transmission Line
- A-1 • School Site EMF Test Points

0 200
 Scale (Feet)



3. Regulatory Setting

3.1 POTENTIAL EFFECTS OF EMF EXPOSURE FROM TRANSMISSION LINES

There are no state or nationally recognized regulatory standards for EMF exposure of the general public. In addition, the California Department of Education (CDE) has not established thresholds for exposure to EMF emissions from transmission lines.

The World Health Organization (WHO) also has not established health-based thresholds for EMF exposure. WHO does, however, list EMFs as a Class 2B "possible carcinogen," based on a determination by the International Agency for Research on Cancer (IARC). The 2B classification is used to denote an agent for which there is limited evidence of carcinogenicity in humans and less than sufficient evidence for carcinogenicity in experimental animals. This classification was based on pooled analyses of epidemiological studies demonstrating a consistent pattern of a two-fold increase in childhood leukemia associated with average exposure to residential power-frequency magnetic field above 0.3 to 0.4 microtesla (uT), which is equivalent to 3 to 4 mG³. Other Class 2B listed possible carcinogens include coffee, welding fumes and carpentry⁴.

After nearly 40 years of research including hundreds of studies, none of the scientific organizations that conducted weight-of-evidence reviews concluded that exposure to EMF is a demonstrated cause of any long-term adverse health effect. The evidence in support of a causal relationship is founded largely, if not entirely, on limited epidemiology studies that reported statistical associations between EMF exposure and diseases. Scientists have placed less weight on these associations because they are often inconsistent across studies, have errors in the way the study was designed or conducted, and use methods to measure EMF exposure that are unreliable. Overall, laboratory studies have not reported an increase in cancer among animals exposure to high levels of electric or magnetic fields, and no mechanism has been discovered in cellular studies that explains how electric or magnetic fields might initiate disease (Kabat, 2008).

In some epidemiology studies, a weak but statistically significant association has been reported between childhood leukemia and estimates of long-term exposure to EMF levels. The reported associations are weak and there is no evidence of a consistent exposure-response relationship. The strongest epidemiological studies of childhood leukemia and magnetic fields, which were conducted in the US, Canada, and the United Kingdom, do not indicate a statistical association.

³ World Health Organization (WHO), 2007. WHO web page Fact Sheet on "Electromagnetic fields and public health," <http://www.who.int/peh-emf/publications/facts/fs322/en/>, accessed January 13, 2017.

⁴ IARC, 2016. IARC web page, List of Classifications of Carcinogens, http://monographs.iarc.fr/ENG/Classification/latest_classif.php, accessed January 13, 2017.

3. Regulatory Setting

The absence of clear adverse effects after continued testing increases the certainty that there is no adverse effect from long-term exposure. However, no scientific review panel can ever completely rule out the possibility that EMF in the community and workplace might have some adverse effect, due to the inherent limitations of scientific investigations. Therefore, the CDE is employing the “precautionary principle” to ensure that students and staff at school sites do not suffer adverse health effects from exposure to EMF associated with high-voltage transmission lines by establishing setback zones to minimize exposure.

3.2 CDE TRANSMISSION LINE SETBACK REQUIREMENTS

The California Code of Regulations (CCR), Title 5, Section 14010(c), specifies a distance setback requirement for power lines greater than 50 kV for proposed new school sites and school additions. The California Department of Education (CDE) has issued related policy guidance on seeking an exemption for school sites within designated setbacks from 50 kV and greater transmission lines (Power Line Setback Exemption Guidance Policy [2006]), as discussed below.

Specifically, CCR, Title 5, Section 14010(c) specifies a distance setback requirement of 150 feet from *overhead* 230 kV power lines for proposed school sites. The regulatory requirement is summarized as follows:

The property line of the site even if it is a joint use agreement as described in subsection (o) of this section shall be at least the following distance from the edge of respective power line easements:

- 100 feet for 50-133 kV line.
- 150 feet for 220-230 kV line.
- 350 feet for 500-550 kV line.

CDE has a policy that allows schools within the vicinity of overhead lines to apply for variances to this regulation as described in the Power Line Setback Exemption Guidance Policy (CDE, 2006). This guidance has been developed in consultation with international experts on the health effects of EMF, state agencies such as the Department of Public Health (DPH), the Division of the State Architect (DSA), and the California Public Utilities Commission (PUC), electric utilities, school districts, consultants, and private citizens with an interest in the topic. CDE's past endorsement of prudent avoidance continues to form the basis of this guidance while recognizing that in specified circumstances, encroachment into the setback areas may be necessary to provide schools in areas with limited site choices. The prescribed guidance acknowledges the scientific uncertainty of the health effects of EMFs, the lack of any state or nationally established standard for EMF exposure, and the PUC's recently reconfirmed reliance upon no/low-cost measures targeted to only reduce fields from new power transmission lines.

3.2.1 Measuring from Transmission Lines Instead of Edge of ROW

The CDE exemption guidance allows for measuring the setback from the transmission line instead of from the edge of the easement (ROW), for all transmission lines above 50kV.

3. Regulatory Setting

For setback exemption requests for only measuring setbacks from the transmission line instead of from the edge of its easement, the following process is recommended by CDE:

On a case-by-case basis, CDE shall have the ability to measure the setback from ground level of the closest or highest kilovoltage transmission line (whichever creates the largest setback onto the site) instead of from the edge of easement, if it can be reasonably determined by CDE, based upon LEA submitted exemption documentation using Utility provided plans and other available information, that it is extremely unlikely that new or relocated overhead transmission lines of at least 50kV would be placed closer to the school within the easement, unless such planned lines would result in a net reduction of magnetic fields on the usable portions of the school site. Documentation should include the easement and line(s) location(s) and setback distances.

3.2.2 Unrestricted Uses – Under 200kV Transmission Lines Only

For lines up to 200 kV, CDE's guidance prescribes that an exemption request can be made for unrestricted school site land uses within the setback, provided, among other requirements, that:

- The school district explain to CDE's satisfaction why encroachment into the setback area is necessary and address what other site options (if any) are available and how this site and plan compare to them, including other Title 5 standards and other safety and cost complications.
- Upon satisfaction of the above, a Field Management Plan (FMP) should be prepared by a competent professional, as determined by the LEA, and be submitted with the exemption request. The FMP should identify and evaluate options and include: a) low- and no-cost measures to “re-engineer” the transmission line configuration to reduce EMF exposure to the school; and b) design the school, especially electrical wiring and power components, to minimize exposure of students and staff to EMF.

3.2.3 Limited Activity Uses – All Transmission Lines Rated 50 kV and Above

For lines above 200 kV, setback exemption requests can be made only for “limited use activities” (e.g., parking, landscaping [excluding play and activity fields], roadways, etc. Related language from the exemption request guidelines is presented below.

The uses listed below will be allowed by CDE within the Title 5 power line setback distances if committed to in writing by the LEA in a Title 5 exemption request via a site approval request letter, on SFPD form 4.02, and with transmission line limited use setback areas designated on all future SFPD form 4.07 plan submittals:

- *Staff/ visitor/ student/ joint-use parking*
- *Bus and parent drop-off/ loading*
- *Driveways, access roads, sidewalks*
- *Internal vehicular circulation and fire lanes*
- *Landscaping (excluding play and activity fields)*

3. Regulatory Setting

- *Gross acres that are unusable for school purposes or activities, e.g., retention basins, steep slopes, wetlands, waterways, etc.*
- *Other such similar limited activity uses as determined by CDE on a case-by-case basis, including but not limited to support facilities and plant operations such as warehouses, boiler rooms, etc. that would have only occupancy for infrequent and limited periods of time.*

3.2.4 Proposed Projects on Existing School Sites within Transmission Line Setbacks

CDE's guidance specifies procedures applicable to proposed new construction or modernization projects within transmission line setbacks on existing school sites that are not required to obtain a new CDE site approval. Specifically, the guidance states:

As part of the SFPD 4.07 application for new construction and SFPD 4.08 for modernization, LEAs may, as part of their certification of not creating nor significantly exacerbating an existing safety hazard related to transmission lines, utilize the above Guidance and submit documentation if requested by CDE, with the exception that the LEA would not be requesting a Title 5 exemption request.

3.3 OEHS SETBACK EXEMPTION REQUEST CRITERIA

In conformance with the CDE Guidance, LAUSD's Office of Environmental Health and Safety (OEHS) has established criteria and a process for evaluating the suitability of an exemption request for unrestricted uses within the 50-200 kV setback areas (OEHS, 2007). The following three-step process is to be completed prior to submitting a request for an exemption to the CDE:

1. Determine EMF levels on the proposed school site which are associated with the subject power lines. Whether direct measurements or modeling is utilized, EMF levels must be representative of the full capacity of the power line.
2. Measure the EMF levels within the local community adjoining the school starting at the CDE setback for the current power line configuration and extending into the community. This study should extend at least 500 feet into the community and be composed of at least one duplicate survey of the community taken at a different time of day (all during normal school hours). This community survey will result in a measured, Area-Weighted Average (AWA) EMF level. The calculation of the AWA will include determination of one standard deviation (1σ). The scope of work for each EMF study must be approved by OEHS prior to monitoring activities.
3. Compare the EMF levels determined on the school site with those determined within the local community to assess whether there is a significant difference. For purposes of this comparison, a significant difference is 1σ above the AWA. If the difference is determined to be insignificant then an exemption request is considered appropriate. If the difference is determined to be significant, then the exemption request is inappropriate.

4. School Site Conditions

4.1 EXISTING SCHOOLSITE CONDITIONS

Existing school site conditions are shown on the aerial photograph that serves as the base of figures 2 and 3. Based on observations in the field, and using Google Earth, the school boundary adjacent to the transmission line right-of way (ROW) is approximately 35 feet from the base of the lattice towers supporting the 230 kV transmission lines. Similarly, it was observed that the school boundary is approximately 26 feet from the closest high voltage transmission line, projected at ground level. The figures and observations during the field survey also show that existing portable classrooms are located within three feet of the edge of the ROW. Thus, existing classrooms are located within about 29 feet from the ground level projection of the nearest transmission line, and within about 38 feet from the base of the lattice tower supporting the transmission line.

4.2 PROPOSED SCHOOL SITE MODIFICATIONS

The preferred school site modernization design is shown on Figure 4. School modernization would include removal of the existing portable classrooms adjacent to and near the edge of the ROW. The area closest to the ROW would be “limited use” areas, including an access roadway and parking areas. Classrooms and other student and faculty occupied areas are proposed beyond the “buffer” zone defined by the access road and parking lots. As shown on Figure 4, API Architecture measured the distance from the base of the transmission line lattice towers to various structures on the proposed school site. The figure shows the nearest classroom building is 132 feet from the base of the transmission line tower. Thus, the proposed school modification design will result in the nearest classrooms moving about 94 feet further away from the transmission lines, compared with the existing conditions.

5. EMF Survey Results and Discussion

Appendix A includes all EMF survey results, including the date, time and location of the reading. Tables A-1 and A-2 (in Appendix A) show magnetic field strength readings (expressed as mG) collected at all school site and background locations, respectively. Monitoring point locations are shown on figures 2, 3 and 5.

At the time of the approved field survey the information provided to PlaceWorks indicated the transmission line was 127 kV (and not 230 kV). As a result, the field survey and data analysis were scoped and performed with an eye toward conformance with the above OEHS policy guidance for seeking a setback exemption for a less than 200 kV line.

As shown in tables A-1 and A-2, and as depicted on figures 2, 3 and 5, school site average EMF values at four different setback distances from the edge of the ROW (0 feet, 30 feet, 100 feet and 200 feet) were determined. In addition, background average values plus one standard deviation were calculated. The average EMF readings at each of the four setback distances exceeded the background values determined, plus one standard deviation. Thus, according to OEHS (2007) criteria, even if the nearby high voltage power line was less than 200 kV, the setback exemption request would be “inappropriate”

We note that the average EMF levels detected during the survey between 100 and 200 feet setback from the transmission line ROW edge (~ 0.95 mG), while not representative of a pristine EMF environment, were within a normal range (about 1 mG) of exposures one could expect in a society with electric power.

A comprehensive survey of California public schools indicated that 80% of the surveyed school areas and 83% of the classrooms had average magnetic fields of less than 1 mG (CDHS, 2001). The EMF measurements across the area of the Cleveland HS site between 100 and 200 feet from the ROW edge (i.e., excluding the area *within* 100 feet from the edge of the ROW) averaged less than 1 mG, which is equivalent to the comprehensive surveyed values at public schools.

As noted above, the World Health Organization (WHO) has not established health-based thresholds for EMF exposure. WHO does, however, list Extremely Low Frequency (ELF) EMFs as a Class 2B "possible carcinogen," based on a determination by the International Agency for Research on Cancer (IARC). This classification was based on pooled analyses of epidemiological studies demonstrating a consistent pattern of a two-fold increase in childhood leukemia associated with average exposure to residential power-frequency magnetic field above 3 to 4 mG.

Focusing on magnetic fields above 3 to 4 mG as thresholds of concern is problematic because these values are not regulatory thresholds. Nevertheless, given that focus, it is useful to point out that all of the average values determined beyond 30 feet from the ROW during the EMF survey at Cleveland HS are less than the levels tied to the basis for IARC's determination (i.e., 3 to 4 mG)

5. EMF Survey Results and Discussion

We also evaluate the distance between the school and the transmission line (and by inference the EMF exposure of concern at the school) in the context of what the CDE would require if a new school or addition were to be proposed at the site of the Cleveland HS, given the presence of the 230 kV line. As previously noted, California Code of Regulations (CCR), Title 5, Section 14010(c) requires new schools be setback a prescribed distance from electric power transmission lines; the distance depends on the voltage of the line. Based on CDE's policy of "prudent avoidance" regarding EMF exposure, CDE guidance (Power Line Setback Exemption Guidance Policy; CDE, 2006) cites the Title 5 setback for a 230 kV overhead line of 150 feet. The CDE guidance and the OEHS criteria also specify that exemption requests for unrestricted uses (classrooms, hard courts, play fields, etc.) within setbacks are appropriate only for lines less than 200 kV.

Figure 5 shows that both restricted uses (parking), and unrestricted uses (classrooms), are proposed within the 150 setback distance prescribed for new school sites near 200 kV and above transmission lines.

However, we note that the CDE guidance states: *These guidelines are advisory only and utilization or compliance is not required by regulation or CDE. CDE's discretionary approval of exemption requests will be determined by specific circumstances on a case-by-case basis. For requests following this guidance, CDE should reasonably be able to determine if an exemption is approvable. Requests using other methods demonstrating compliance with the exemption provisions of the California Code of Regulations, Title 5, Section 14010(u) may also be submitted and be subject to other appropriate agency or expert review and consultation as determined necessary by CDE.*

We also note that the referenced CDE guidance addresses proposed new construction or modernization projects within transmission line setbacks on existing school sites that are not required to obtain a new CDE site approval. This guidance is discussed at Section 3.2.4 above. In addition, while the guidance addresses 'transmission' lines, CDE also notes that school districts should consider the feasibility of decreasing or mitigating exposure from EMF from all sources on any existing or proposed school campus.

6. Mitigation to Reduce EMF Exposure

The CDE and OEHS guidance and criteria recommend an exemption request be made for unrestricted uses within a setback only for transmission lines less than 200 kV. Such requests also require preparation of a Field Management Plan (FMP) to reduce exposure. While the proposed Cleveland HS site layout involves unrestricted use within the setback zone of a 230 kV line, which would preclude an exemption request under the guidance, preparation of an EMF Field Management Plan still is warranted, in the context of the “prudent avoidance” policy.

There are two methods for reducing EMF exposure: 1) implementation of feasible low or no cost methods for reduction in the transmission line EMF levels, and 2) incorporating appropriate site design measures and EMF best management practices to reduce exposure to EMF at the school site.

Mitigation changes to the existing 230 kV transmission lines theoretically could possibly reduce magnetic field levels within the proposed school site. These changes could include a more compact delta phase configuration for the 230 kV circuits, re-phasing of the 230 kV circuits for optimum field cancellation (if they are not currently optimized), increased pole height (to reduce field levels at the ground), relocating the lines to locations farther away from the school site, or relocating the lines underground.

The cost to implement these changes could range into the many hundreds of thousand dollars. However, most of the field reduction would occur within limited use areas (access road, parking lots and landscaped areas) along the eastern boarder of the school site and the low intensity usage area of the athletic fields. Because of the time, effort, and cost to implement any of these types of changes, combined with the fact that students and staff would normally not spend a significant amount of time in these limited use areas; it does not appear to be practical or cost-effective to make these changes as a field reduction option.

If upgrades to the existing 230 kV lines are required in the future, LADWP can work in conjunction with the Los Angeles Unified School District to identify low EMF configurations that could be implemented to reduce EMF exposure at the school site at that time. Based on the reasons cited above, it is not recommended that transmission line mitigation be considered for this school site.

The school site layout has been designed to place limited use activities and lower intensity uses closer to the transmission lines. Some additional design measures that can be considered to be implemented and incorporated into the site design to reduce EMF exposure to students and staff are described below.

The primary cause of high EMF levels within schools generally is from “net currents” (CDHS, 2001). Most wiring in homes and commercial buildings consists of cables containing two or more current-carrying conductors. At any point in time, an equal current is flowing in one direction on one wire, and in the opposite direction on another wire. Since these wires are very close together inside the cable jacket or conduit, the magnetic field around one wire is cancelled by the opposite magnetic field around the other wire. The field

6. Mitigation to Reduce EMF Exposure

drops down to a negligible level a few inches from the wires. In this case there is no net current on the circuit. Problems occur when this balance is destroyed by improperly wired circuits. Common examples are:

- Neutrals from separate branch circuits that are connected anywhere beyond the point of origin
- Neutral-ground shorts (intentional or inadvertent) anywhere on the system
- Improperly wired subpanels (a form of neutral-ground shorts)
- Incorrect three-way switch wiring where the hot and neutral are fed to different points in the circuit.

Therefore, site design could focus on correct wiring within the school to ensure that there are no net current magnetic fields. To eliminate this problem, the wiring in all school rooms should be compliant with the currently adopted US National Electric Code (NEC) and the California Electrical Code. All school rooms shall be free of the common wiring errors listed above. The correctness of the wiring should be checked in each room and the goal is for measured EMF levels to comply with 1 mG for new construction and 2 mG for buildings undergoing modernization.

Other causes of elevated EMF levels inside schools are electrical panels, fluorescent lights, office equipment, power cables, power transformers, air conditioners, transmission and distribution lines, and currents in water mains. The following measures can be implemented to minimize these potential causes of elevated EMF levels:

- Locate high occupancy areas such as classrooms as far as possible from magnetic field sources
- Locate electrical panels, transformers, mechanical equipment, raceways, etc. as far as possible from occupied areas
- Locate electrical equipment in dedicated spaces that are not normally occupied: equipment rooms, storage rooms, and supply rooms
- Locate the service transformer and main switchboard as close as possible and practical to the main service street connection
- Locate transformers, switchgear, and large panels remote from occupied spaces in outdoors or in parking structures
- Provide barriers, walls, and/or fencing to limit access to electrical equipment, if located outside
- Provide required clearances and work space according to code and utility company requirements
- Transformers shall comply with Department of Energy Policy Act of 2005

6. Mitigation to Reduce EMF Exposure

- Locate equipment and equipment rooms so they are not adjacent, directly above, or directly below classrooms, offices, libraries, and similar spaces
- Disburse power via low occupancy areas
- Use EMF-free or low-EMF electrical wiring, where appropriate
- Design distribution lines to minimize EMF fields with the following options:
 - Place distribution lines underground and shield in steel pipe or steel jacket, if possible
 - Close spacing or bundling of hot and neutral conductors
 - Use of triplex for service drops
- Designs incorporating branch circuits with double neutrals shall be provided with a harmonic content study to substantiate the need for double neutrals
- Avoid routing underground feeders to pass under occupied spaces; where underground feeders have to pass beneath the concrete slab to terminate at a distribution panel inside the building, install conduits 24 inches below finished floor
- If power is brought in overhead, avoid bringing it in adjacent to classrooms or assembly areas
- Locate sub panels away from heavily used spaces
- Minimize currents by using higher voltages whenever practical
- Utilize balanced three-phase systems
- Keep major wiring runs away from heavily used spaces, such as classrooms and assembly areas
- Run sub panel feeder conduits that are heavily loaded in concealed spaces away from seating areas for classrooms and offices
- Keep large electrical loads generated by motors, HVAC equipment, fans, and blowers as far as possible from student and staff occupied areas
- Avoid multiple main electric panels which can create the potential for a current loop, resulting in high EMF levels throughout the occupied building space
- Gas, electric, telephone, cable, and water systems should be located to enter buildings as close together as possible and bonded per the NEC to prevent an objectionable flow of current over the grounding conductors or grounding paths

6. Mitigation to Reduce EMF Exposure

- Minimize distance between conductors in a circuit
- Use LED lights or electronic ballasts in place of magnetic ballasts for fluorescent lights and mount the ballast in remote locations away from occupied space, where possible

In addition, low EMF equipment can be specified for use in the classrooms and other occupied spaces. Computer monitors, copy machines, microwave ovens, and similar electric equipment can generate considerable EMF levels in the near field. Computer labs can be designed so that students sit side-by-side rather than front-to-back to avoid high EMF from computer monitors. Low EMF best practices for classrooms include the following:

- Require desktop computers, laptops, notebooks, and tablets to be operated only on a desk. Prohibit operation of these devices on a student's lap or body. Additionally, install computer workstation equipment greater than 2 feet from occupants.
- Desktop computers, laptops, notebooks, and tablets shall be TCO-certified or laboratory tested to meet TCO criteria "Mandate A.4.2" for EMF emissions.
- Install only laptops or notebooks that have an Ethernet port and a physical switch to conveniently disable all wireless radios at once and an adaptor with a 3-pin plug.
- Install only tablets that support a USB Ethernet adaptor for a wired network connection
- Operate tablets only in battery mode and not when plugged in
- Install a wired local area network (LAN) for internet access throughout the school.
- Provide wired network connections for desktop computers, laptops, notebooks, and tablets
- All wireless transmitters shall be disabled on all Wi-Fi enabled devices
- Provide wired input devices for computer workstations.
- Install easily accessible hard-wired phones for teacher and student use and prohibit installation and use of standard DECT cordless phones and cordless phones operating at 2.4 GHz and 5.8 GHz unless they have been laboratory tested to demonstrate that the phone base station and handsets do not emit RF EMF emissions in the standby mode.
- Prohibit the use of cell phones and other personal electronic devices in instructional areas/classrooms. They shall be required to be powered off or be in airplane mode except during fire-life-safety drills or incidents.

6. Mitigation to Reduce EMF Exposure

To the extent possible, these magnetic field reduction strategies can be incorporated into the design of the proposed high school modernization to reduce exposure for staff and students. These field management techniques can be documented and, to the extent CDE is involved, the agency can be notified regarding the implementation of these strategies as an update to this report. The EMF Checklist by the California EMF Program⁵, can be used to verify the implementation of the field reduction measures. As part of a variance approval, CDE typically would require the District to provide documentation of implementation of the various field reduction strategies.

In addition, once construction of the main school buildings has been completed, a supplemental EMF survey can be conducted, with emphasis on all areas of the school that are within the setback zones, including building interiors, to ensure that there are no elevated EMF levels or net currents that could impact students and staff at the new high school. The results of the survey can be presented as an update to this report.

⁵ California EMF Program Checklist, <http://ehib.org/cehtp/cehtp.org/emf/lstform.html>

7. Summary and Conclusion

A LADWP multi-circuit 230 kV overhead transmission line is located in a transmission line easement (ROW) adjacent to and east of Cleveland HS. The 230 kV power lines are supported by steel lattice towers within the ROW. The school boundary adjacent to the ROW is approximately 35 feet from the base of the lattice towers supporting the 230 kV transmission lines. Existing portable classrooms at the school site are present within about three feet from the edge of the ROW.

The LAUSD OEHS commissioned this EMF field survey in response to concerns expressed by interested parties related to potential EMF exposure of school occupants from the nearby LADWP transmission line, including with respect to proposed comprehensive modifications at the site. Proposed modifications at the school site include removal of portables, modifications of existing buildings, and construction of new buildings.

CCR Title 5 precludes new schools or school additions within 150 feet of the ROW edge of a 230 kV line, unless an exemption is requested and granted, and certain findings are made, pursuant to CDE Power Line Setback Exemption Request Guidance (May 2006). The CDE guidance does not recommend requesting exemptions for unrestricted uses within the setback for 200 kV lines and greater. In conformance with CDE's May 2006 guidance, OEHS' Criteria for School Siting in Proximity to High Voltage Power Lines (2007) states that pursuit of a setback exemption request for unrestricted uses within the setback for lines greater than 200 kV would be "inappropriate."

The preferred school site design concept shows that both restricted uses (parking, etc.), and unrestricted uses (classrooms, etc.), are proposed within the 150 setback distance prescribed for the 230 kV LADWP transmission line near Cleveland HS.

Nevertheless, this EMF survey demonstrates that:

- The average of school site EMF levels measured at 30 feet and 100 feet setback from the ROW edge (~2.5 mG), and beyond, arguably, does not pose a significant safety or health risk to the school site, based on comparison to the levels tied to the basis for IARC's determination that EMF is a Class 2 B carcinogen (i.e., 3 to 4 mG); and
- The average of school site EMF levels measured at 100 feet and 200 feet setback from the ROW (~ 0.95 mG) is equivalent to published average exposure at public schools in California (<1 mG).

In addition, the proposed modernization project does not exacerbate the existing condition with respect to EMF exposure. Rather, the preferred site design would substantially improve the current situation by locating classrooms about 132 feet away from the transmission line; whereas, the school site as it is now configured has classrooms located within about 38 feet from the transmission line. Also, an EMF Field Management

7. Summary and Conclusions

Plan can be developed to reduce EMF exposures at the school site from sources other than the 230 kV transmission line. This involves incorporating appropriate site design measures and EMF best management practices to reduce exposure to EMF at the school site.

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Appendix A. **EMF Monitoring Results**
Table A-1, On Site Measurements
Table A-2, Background Measurements

Table A-1
On Site Measurements: Magnetic Fields (expressed as milligauss [mG]) at Cleveland Charter High School Site

	Monitoring Location Grid-Column ID -- Distance from Edge of Right-of-Way ROW ("A", "B", "C" and "D"; see Figure 3)								
Monitoring Location Grid-Row ID ("1" to "14"; see Figure 3)	Round 1 Monitoring; 11/03/16; 8:30 to 9:30 am				Round 2 Monitoring; 11/03/16; 11:30am to 12:30pm				Notes
	A (0 feet from edge of ROW)	B (30 feet from edge of ROW)	C (100 feet from edge of ROW)	D (200 feet from edge of ROW)	A (0 feet from edge of ROW)	B (30 feet from edge of ROW)	C (100 feet from edge of ROW)	D (200 feet from edge of ROW)	
1	2.6	1.9	0.9	0.6	3.2	2.7	1.2	0.6	
2	3.0	1.9	0.9	0.5	3.7	2.9	1.0	0.6	
3	3.8	2.0	0.9	0.5	4.8	3.4	1.1	0.7	
4	5.0	2.1	1.1	0.5	6.7	4.0	1.2	0.5	
5	8.2	5.3	1.2	0.7	10.0	4.2	1.4	1.0	Round 1 C-4 reading at <u>2nd story level</u> was 1.4; 17% greater than ground level. Round 2 C-4 reading at <u>2nd story level</u> was 1.7; 21% greater then ground level.
6	10.2	4.0	1.1	0.8	11.6	4.9	1.1	1.0	Round 1 C-5 reading at <u>2nd story level</u> was 1.3; 18% greater than ground level. Round 2 C-4 reading at <u>2nd story level</u> was 1.4; 27% greater then ground level.
7	9.8	3.7	1.9	0.9	11.2	5.1	1.7	0.7	
8	7.5	3.6	1.3	0.4	9.2	4.9	1.4	0.8	

Table A-1
On Site Measurements: Magnetic Fields (expressed as milligauss [mG]) at Cleveland Charter High School Site

Monitoring Location Grid Row ID ("1" to "14"; see Figure 3)	Round 1 Monitoring; 11/03/16; 8:30 to 9:30 am				Round 2 Monitoring; 11/03/16; 11:30am to 12:30pm				Notes
	A (0 feet from edge of ROW)	B (30 feet from edge of ROW)	C (100 feet from edge of ROW)	D (200 feet from edge of ROW)	A (0 feet from edge of ROW)	B (30 feet from edge of ROW)	C (100 feet from edge of ROW)	D (200 feet from edge of ROW)	
9	5.7	3.0	1.3	0.9	7.4	2.5	1.6	1.0	
10	7.5	3.8	1.5	0.4	9.0	5.3	1.6	0.6	
11	8.1	3.2	1.1	0.5	9.8	4.9	1.1	0.6	
12	8.3	3.6	1.3	0.8	8.2	4.2	1.3	0.9	
13	6.3	3.5	1.1	0.9	7.2	4.1	1.4	0.7	
14	4.8	3.0	1.0	0.6	5.3	3.6	1.2	0.6	
Average of All (1 - 14) Grid Row Points, for each Grid Column	6.5	3.2	1.2	0.6	7.7	4.1	1.3	0.7	
Combined Average of All (1 - 14) Grid Row Points, for Grid Columns B and C.		2.2				2.7			

Table A-2

Background Measurements: Magnetic Fields (expressed as milligauss [mG]) Near Cleveland Charter High School Site

Background Monitoring Location ID ("1" to "20"; see Figure 2)	Round 1 Monitoring; 11/03/16; 8:15 to 8:30 am	Round 2 Monitoring; 11/03/16; 11:15am to 11:30pm	Notes
1	0.3	0.3	
2	0.2	0.2	
3	0.2	0.2	
4	0.2	0.2	
5	0.4	0.2	
6	0.4	0.3	
7	0.4	0.3	
8	0.2	0.2	
9	0.1	0.1	
10	0.1	0.1	
11	0.5	0.4	
12	0.5	0.4	
13	0.6	0.5	
14	0.5	0.4	
15	0.4	0.5	
16	0.6	0.6	
17	0.4	0.2	
18	0.2	0.5	
19	0.4	0.4	

Table A-2

Background Measurements: Magnetic Fields (expressed as milligauss [mG]) Near Cleveland Charter High School Site

Background Monitoring Location ID ("1" to "20"; see Figure 2)	Round 1 Monitoring; 11/03/16; 8:15 to 8:30 am	Round 2 Monitoring; 11/03/16; 11:15am to 11:30pm	Notes
20	0.3	0.4	
Average of All (1 - 20) Background Points, Each Round of Monitoring	0.3450	0.3200	Combine average of Rounds 1 and 2 = 0.33 uG
Standard Deviation of All (1 - 20) Background Points, Each Round of Monitoring	0.1538	0.1436	The highest background average (0.345) value plus one standard deviation (0.1538) = ~ 0.5 mG

Appendix I

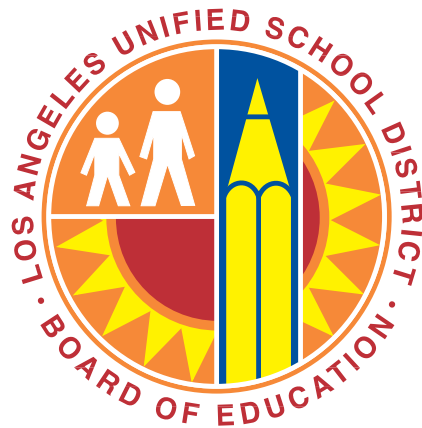
Preliminary Environmental Assessment Equivalent Report

**PRELIMINARY ENVIRONMENTAL
ASSESSMENT EQUIVALENT
REPORT**

Grover Cleveland Charter High School
8140 Vanalden Avenue
Reseda, California 91335

April 24, 2017

Prepared for:



Los Angeles Unified School District

333 South Beaudry Avenue, 21th Floor
Los Angeles, California 90017

Prepared by:

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PRELIMINARY ENVIRONMENTAL
ASSESSMENT EQUIVALENT REPORT

GROVER CLEVELAND CHARTER HIGH SCHOOL
8140 VANALDEN AVENUE
RESEDA, CALIFORNIA 91335

SOIL ASSESSMENT FOR DEMOLITION AND NEW CONSTRUCTION

OPINION OF ENVIRONMENTAL PROFESSIONAL

Pinnacle Environmental Technologies has prepared this Preliminary Environmental Assessment Equivalent (PEA-E) Report for the above project area. This assessment was conducted using methods and professional experience consistent with the standard for the industry. The observations, interpretations and recommendations produced by this assessment are based on conditions that exist at the time the study is conducted. These interpretations are based upon Pinnacle's field observations, analytical results and specific field conditions.

Potential Recognized Environmental Conditions were identified at Grover Cleveland Charter High School by the original Phase I Environmental Site Assessment. This subsequent PEA-E revealed no additional evidence of specific recognized environmental conditions in connection with the project site. Based on the results of this assessment, no additional environmental investigation or mitigation is recommended at this time.

PINNACLE ENVIRONMENTAL TECHNOLOGIES

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Principal
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William E. Malvey
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PRELIMINARY ENVIRONMENTAL
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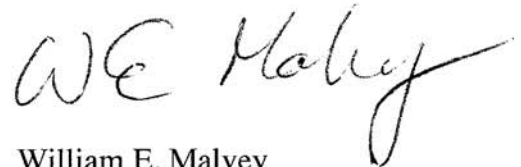
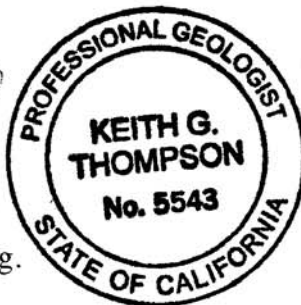
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- Appendix F: Manifest for Drum Disposal
- Appendix G: Human Health Risk Evaluation Prepared by Environmental Health Decisions
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LIST OF ACRONYMS

ABBREVIATION	DESCRIPTION
%	percent
A-P Zone	Alquist-Priolo Fault Rupture Hazard Zone
AOC	Area of Concern
APN	Assessors Parcel Number
bgs	below ground surface
Blaine	Blaine Environmental Services
Cal EMA	California Emergency Management Agency
CDMG	California Department of Mines and Geology
CHHSL	California Human Health Screening Level
COC	Chain of Custody
COPC	Contaminant of Potential Concern
CSM	Conceptual Site Model
DigAlert	Underground Services Alert of California
DTSC	Department of Toxic Substances Control
EEC	Early Education Center
EHD	Environmental Health Decisions
EPA	United States Environmental Protection Agency
ERA	Ecological Risk Assessment
ESA	Environmental Site Assessment
ESE	Ecological Screening Evaluations
ESNR	Environmentally Sensitive Natural Resources
HERO	DTSC Office of Human and Ecological Risk
HHRA	Human Health Risk Assessment
HHSE	Human Health Screening Evaluation
kV	kilovolts
LADWP	City of Los Angeles Department of Water and Power
LADPW	City of Los Angeles Department of Public Works
LAUSD	Los Angeles Unified School District
LBP	lead-based paint
MC&TC	Miller Career and Transition Center
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
ml/min	milliliters per minute
MPR	Multi-purpose Room
MSL	mean sea level
O.D.	Outside diameter
OCP	Organochlorine Pesticide
OEHS	Office of Environmental Health and Safety
OWTS	On-Site Wastewater Treatment Systems

PCBs	Polychlorinated Biphenyls
PEA-E	Preliminary Environmental Assessment Equivalent
ppbv	Parts per billion by volume
REC	Recognized Environmental Condition
ROW	right-of-way
RL	laboratory reporting limit
RSL	Regional Screening Level
SCE	Southern California Edison
SCG	Southern California Gas
STLC	Soluble Threshold Limit Concentration
Strongarm	Strongarm Environmental Field Services
SunStar	SunStar Laboratories
TCE	Trichloroethene
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentration
UCL	upper confidence level
$\mu\text{g}/\text{kg}$	micrograms per kilogram
$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
VOCs	Volatile Organic Compounds

EXECUTIVE SUMMARY

This report summarizes the field procedures and observations, laboratory analytical procedures and results, and conclusions of a Preliminary Environmental Assessment Equivalent (PEA-E) completed by Pinnacle Environmental Technologies (Pinnacle) of a portion of Grover Cleveland Charter High School in Reseda, California (the project area). The PEA-E was performed as a preliminary task for the intended modernization program at the school.

Based on historical and current land use data collected during a previous Phase I Environmental Site Assessment (ESA), lead, arsenic and organochlorine pesticides (OCPs) were identified as primary chemicals of potential concern (COPCs) for subsequent assessment within the project area. Total Petroleum Hydrocarbons (TPH), Volatile Organic Compounds (VOCs) and Polychlorinated Biphenyls (PCBs) were identified as secondary COPCs and were also assessed within the project area. Two stages of soil sample collection were completed during this PEA-E. Stage II sampling consisted of step-out borings intended to assess the lateral extent of COPCs identified in Stage I borings.

The project area was separated into five Areas of Concern (AOCs) to assist in selecting sample locations and sample analyses. The following number of Stage I and Stage II borings were advanced in each AOC:

- AOC-1 – 11 Stage I and 1 Stage II borings
- AOC-2 – 31 Stage I and 2 Stage II borings
- AOC-3 – 24 Stage I and 6 Stage II borings
- AOC-4 – 7 Stage I and no Stage II borings
- AOC-5 – 3 Stage I and no Stage II borings

Eighty-five soil borings were advanced by hand auger to a planned target depth of 2.5 feet below ground surface (bgs). Seventy-five of the 76 Stage I borings reached the target depth. Auger refusal occurred in Boring B56 at a depth of 0.8 feet bgs. Each of the nine Stage II borings reached the target depth of 2.5 feet bgs. All of the borings reached an adequate depth to delineate vertical extent of the COPCs. A total of 255 soil samples were collected from the soil borings at depths ranging from 0.5 to 2.5 feet bgs. Saturated conditions were not encountered in any of the boreholes, so no groundwater grab samples were collected.

Eighteen of the 80 soil samples analyzed for arsenic had reportable levels of arsenic at concentrations ranging from 4.6 to 65 mg/kg. Two borings (PB-7 and PB-58) reported

arsenic at concentrations exceeding the LAUSD screening level of 12 mg/kg. These arsenic concentrations did not continue to depths greater than 1.5 to 2.5 feet bgs. The highest arsenic concentrations were not confined to a particular soil type or location within the project area and do not define a larger area of impacted soil. The cumulative Stage I and Stage II analytical data has a 95% UCL value for arsenic of 8.59 mg/kg, which is well below the state or federal arsenic screening levels used for residential soil.

Eighteen of the 81 soil samples analyzed for lead had reportable levels of lead at concentrations ranging from 12 to 190 mg/kg. The highest lead concentrations were outliers that do not correlate with particular a soil type or project area location. The cumulative Stage I and Stage II analytical data has a 95% UCL value for lead of 26.55 mg/kg, which is well below the state or federal lead screening levels used for residential soil.

Discrete 0.5-foot soil samples from 53 of the 76 Stage I soil borings were analyzed for OCPs. An additional 19 soil samples collected at 0.5 feet from raised planter beds were composited into 8 samples for OCP analysis. OCPs were not detected above laboratory reporting limits in the composite samples. Four of the analyzed discrete samples had one detectable OCP. Two discrete samples, B37-0.5 and B48-0.5, had two detectable OCPs. Alpha-chlordane was detected in three of the shallowest samples (B4-0.5, B31-0.5, and B48-0.5) at a concentrations ranging from 5.6 to 21 $\mu\text{g}/\text{kg}$. Dieldrin was detected in three samples (B7-0.5, B33-0.5, and B37-0.5) at concentrations ranging from of 8.3 to 29 $\mu\text{g}/\text{kg}$. Gamma-chlordane was identified in sample B48-0.5 at a concentration of 13 $\mu\text{g}/\text{kg}$. Endosulfan I was detected in sample B37-0.5 at a concentration of 5.8 $\mu\text{g}/\text{kg}$ (Table 3). None of the detectable concentrations of OCPs exceeded their respective applicable screening level. No additional OCP analyses were required to delineate vertical or lateral extent of a particular OCP.

The two 0.5-foot soil samples analyzed for TPH (B7-0.5 and B58-0.5) did not contain detectable concentrations of gasoline-range hydrocarbons. Detectable concentrations of heavier-end TPH in both of these shallow samples were potentially due to asphalt bits incorporated in the soil during sampling.

One sample was collected from a drum of cuttings intended for offsite disposal. The soil sample was analyzed for Full-Scan TPH using EPA Method 8015C, OCPs using EPA Method 8018A, VOCs and fuel oxygenates using EPA Method 8260B and California Code of Regulations, Title 22 CAM-17 Metals (CAM-17 Metals) using EPA Methods 6010B and 7471A. The drum was transported from the project area on January 24, 2017 by Belshire Environmental Services under a non-hazardous waste manifest.

Two pairs of nested soil vapor probes were installed adjacent to an interceptor in AOC-1. Each of the four soil vapor samples collect from the probes was analyzed for VOCs using EPA Method TO-15. One of the four samples had a trichloroethene (TCE) concentration of $620 \mu\text{g}/\text{m}^3$, which exceeded the screening level for TCE in residential soil vapor of $480 \mu\text{g}/\text{m}^3$. Due to the clayey soils, no odors from the interceptor, and no other detections of TCE in soil vapor within two orders of magnitude of this sample, it was concluded that this one TCE detection did not indicate that a release from the interceptor had occurred.

Imported fill material was not identified at the project area. Near-surface material is assumed to be scarified and graded local clayey material, without depositional evidence and occasionally incorporating evidence of earlier structures.

Pinnacle provides the following recommendations based of the results of this assessment.

- Based on the results of this additional soil sampling and health screening, Pinnacle does not recommend additional investigation for the identified COPCs in soil or soil vapor.
- Pinnacle recommends removal and offsite disposal of soil located at six locations in three of the five AOCs. These include soil boring locations B7, B10, B37, B54, B58 and soil vapor probe location SV2. A surface area four feet square at each location would be adequate to mitigate the soil at depth. The soils at sampling locations B7, B10, B37 and B54 should be removed to a depth of 1.5 feet below the base of the current asphalt or soil surface (if in a planter area). The soils at boring B58 should be removed to a depth of 2.5 feet bgs. The soils at soil vapor probe location SV2 should be removed to a depth of 4 feet to reach beyond the depth of soil vapor collection at that location.
- Using a conservative bulk factor of 140% and density of 2,300 pounds per cubic yard for dry, clayey soils, an estimated 10.4 cubic yards (12 tons) of soil (on surface) will be produced by these six excavations. The soil is expected to be characterized as a California hazardous waste for disposal purposes. The current data set will be suitable for profiling the material.
- Since vertical and lateral extent of each particular COPC has been documented at each location, additional confirmation sampling should not be required after the recommended excavation and removal of soils have been completed from the project area.

1.0 INTRODUCTION

This report documents the scope of work, field procedures and observations, laboratory methods and results, and conclusions of a Preliminary Environmental Assessment - Equivalent (PEA-E) completed by Pinnacle Environmental Technologies (Pinnacle) of portions of the Grover Cleveland Charter High School (the school) in Los Angeles, California (Figure 1). The property occupied by the school is currently owned by the Los Angeles Unified School District (LAUSD) and operates as a high school on a year-round basis. This PEA-E was conducted on behalf of the Office of Environmental Health and Safety (OEHS) at LAUSD.

The purpose of this investigation was to investigate and assess potential impacts to soil (if encountered) on a portion of the school intended for new construction (the project area) at the school. The scope for this PEA-E was defined using potential recognized environmental conditions (RECs) identified and detailed in a Phase I Environmental Site Assessment Report (ESA) prepared by Ninyo & Moore, dated August 16, 2016. The information produced during the course of this investigation will be used by LAUSD for potential site mitigation planning and budgetary purposes.

2.0 SITE DESCRIPTION

2.1 Site Identification Information

Grover Cleveland Charter High School is located at 8140 Vanalden Avenue at the northern margin of the Reseda community of the City of Los Angeles. The Reseda Area of Los Angeles is located approximately 20 miles northwest of downtown Los Angeles.

The Assessor's Parcel Number (APN) for the school is 2104-004-905. The latitude and longitude for the approximate center of the school and the project area as shown on Figure 1 and Figure 2 are as follows:

Latitude - North 34.217834 degrees
Longitude - West 118.547458 degrees

The legal information for the school is as follows:

Tract No. – TR 21098
Map Reference – M B 619 91/92
Block – None
Lot – 1
Map Sheets – 189B121, 192B121

Grover Cleveland Charter High School occupies the majority of a roughly rectangular, residential city block (Figure 1). The block is bounded by Cantara Street to the north, Starthern Street to the south, Aliso Canyon Wash and Wilbur Avenue to the east, and Vanalden Avenue to the west. This block occupies approximately 37 acres (1,611,720 square feet). Two other school facilities operate on, or adjacent to, the same block. The Miller Career and Transition Center (MC&TC) is located at the north end of the block. The Cleveland Early Education Center (Cleveland EEC) occupies property near the southern end of the block. Sports fields for high school students are located on the eastern and southern portions of the school. An access road extends north to south from Cantara Street at the north through the center of the block to Strathern Street at the southern end of the school. School classroom and support buildings [gymnasium, multi-purpose room (MPR), auditorium, kitchen, lunch pavilion and quad] are located east and west of the central access road on the northern side of the block.

Five areas across the campus were identified for additional investigation (the project areas) (Figure 2). None of the property occupied by the Cleveland EEC or MC&TC is within the demarked project areas. The project areas were determined by LAUSD construction project staff and OEHS based on their plans to replace the the school access road, MPR, kitchen, lunch pavilion, and numerous classroom structures with new structures. In addition, LAUSD intends to move the access road from the center of the campus to the east side of the campus, which will provide a wider separation between the school campus and Los Angeles Department of Water and Power (LADWP) transmission lines located on the west side of Aliso Canyon Wash (Figure 2).

2.2 Site Geology and Hydrogeology

The school is located in the west-central portion of the San Fernando Valley. The San Fernando Valley is bounded by the San Gabriel Mountains to the northeast, the Santa Susana Mountains to the northwest, the Verdugo Mountains to the east, the Santa Monica Mountains to the south, and the Simi Hills to the west. The San Fernando Valley and adjacent mountains are within the Transverse Ranges physiographic province, which is comprised of steep east to west trending mountain ranges and sediment-filled valleys. It extends from the San Bernardino Mountains in the east to the San Miguel, Santa Rosa and Santa Cruz islands to the west.

Fine-grained surface soils in the vicinity of the school belong to the Yolo soil series, which is a poorly-drained, silty and clayey loam. Soil belonging to this series has been identified below undisturbed areas with the San Fernando Valley to a depth of up to 60 inches. The soil horizon below the school extends with little variability to fine-grained Holocene alluvial sediments at depth. This fine-grained alluvium is present across much of the western portion of the San Fernando Valley.

The nearest fault to the school is the Northridge Hills Fault, which is approximately three miles north-northeast from the school at its closest point. This fault experienced minor ruptures during the 1994 magnitude 6.7 Northridge Earthquake. The epicenter for this earthquake, which occurred on the Northridge Thrust Fault, a semi-horizontal fault below the San Fernando Valley, was located less than one mile southeast of the school.

The highest historic groundwater levels in the vicinity of the school occurred approximately 60 years ago, and were within one- to five-feet of the ground surface. Recent site investigations performed in the vicinity of the school have encountered groundwater at

relatively shallow depths, from 8 to greater than 15 feet below ground surface (bgs). Groundwater monitoring conducted by Fero Engineering in December 2012 at the Tampa Center shopping mall, located 0.27 miles west of the school, measured static groundwater depths between 12.5 and 14.4 feet bgs. Fero Engineering determined a south-southeast groundwater flow direction at Tampa Center, which mimicks local topography. No investigations conducted at the school have provided an accurate depth to the first occurrence of groundwater.

2.3 Nearest Special Study (Alquist-Priolo) Zone

The school is not located within an Alquist-Priolo Fault-Rupture Hazard Zone (A-P Zone). The nearest A-P Zone to the school is the western termination of the Reservoir Fault segment of the San Fernando Fault Zone, which is 5.5 miles north-northeast of the school.

2.4 Liquefaction and Landslide Potential

According to the California Department of Mines and Geology (CDMG) Seismic Hazard Zone Map for the Canoga Park Quadrangle, soils in the vicinity of the school are not potentially liquefiable during seismic events. However, the 1996 Safety Element of the City of Los Angeles General Plan regards the soils below this area as liquefiable.

There is no landslide hazard identified on the school or on neighboring properties. The closest landslide hazards are in the foothills of the Santa Monica Mountains, approximately 2.5 miles north of the school.

2.5 Flooding and Inundation Potential

The closest named or significant water body to the school is the Aliso Canyon Wash, an engineered channel for flood control that extends from Aliso Canyon in the Santa Susana Mountains north of the project area, to a confluence with the Los Angeles River in South Reseda. It bounds the school on the east. The elevation at the northwest corner of the project area is approximately 775 feet above mean sea level (MSL).

According to California Federal Flood Insurance Rate Map #06037C, panel 1285F, the school is with Flood Zone X, indicating that the area is outside of the area with a 0.2 percent (%) annual risk of flooding. The western margin of the school is also within Flood Zone X

but with a special designation indicating a 0.2% annual chance for flooding. Aliso Canyon Wash has an AE flood designation that is confined to the margins of the Wash. The Wash has been engineered to accept a 100-year flood and has a 1% annual chance for flooding, but not outside of its banks.

The Safety Element for the City of Los Angeles Master Plan shows the school outside areas of potential inundation in the event of a local dam failure. The Inundation Map for the Hansen Dam, produced by the California Emergency Management Agency (Cal EMA), provides more detail. It shows that the school is approximately 2.5 miles west of the area expected to flood after a catastrophic breach of Hansan Dam. This is the nearest inundation zone. The school is not at risk of being flooded by a tsunami.

3.0 BACKGROUND

3.1 Site Setting

The school is located in a residential area and is surrounded by single-family or duplexes homes to the west and south. Residential neighborhoods are also located west of the school and Aliso Canyon Wash. The MC&TC and Roscoe Boulevard are located directly north of the school, and residences are located north of Roscoe Boulevard. The closest commercial or other land uses is a small strip mall located on the south side of Roscoe Boulevard across Aliso Canyon Wash, 500 feet northeast of the project area. Eight sensitive receptors (public buildings, other schools, parks, hospitals, convalescent homes, and churches), including the school, are co-located with, or located, within 0.25 miles of the project area.

The closest major highways to the school are State Highway 101, which is located 3.7 miles south of the school and State Highway 118, which is located 4.3 miles north of the school. Interstate 405 is located five miles east of the school.

3.2 Description of Project Area Structures, Roads and Other Improvements

Grover Cleveland Charter High School is a secured set of facilities that is surrounded by a chain-link fences and gates, and is monitored by a team of security personnel. Portions of the school facility are secured by individual fences. The primary parking area for the school is at the west portion of the campus located west of the project areas. It is accessed from the west through gates on Vanalden Avenue. A second parking lot is located at the northeast corner of the campus and is accessed through a gate at the cul de sac end of Cantara Street. Smaller parking areas used by staff are located between school buildings on campus (Figure 2).

There are 46 primary structures on the school campus. The largest structure within the project area boundary, and at the campus, is the MPR and lunch pavilion, a roughly rectangular single-story structure near the center of the campus. The MPR and lunch pavilion are located within the boundary of the project area.

Portions of the school campus investigated as part of the Phase I ESA were identified for further investigation. Since the campus is large and the area of interest covered a significant portion of the campus, these areas were divided into five individual areas of concern (AOCs) for further focused assessment (Figure 2). Some of the AOCs in the northern portion of the

school campus are contiguous to one another. Each of the five AOCs are illustrated in Figures 3 through 7.

AOC-1 is located near the center of the project area. The MPR/Food Service Building and lunch pavilion, which also serves as the Music Building, is the largest structure in this area. A small parking lot is located immediately north of this structure, which is called Building K on school maps. Two other structures, Building L and a Utility Building, located south of the MPR Building, are within this AOC. The Utility Building houses the Plant Manager office, a custodial lunch area and equipment storage lockers, and a rest room. Building L is a classroom building. A small paved parking area is located behind the Utility Building and a paved loading ramp is located east of the Utility Building, off of the center access road that runs through the campus. A single-stage, concrete interceptor is located east of Building L and south of the Utility Building. Two stacked flow lines enter the interceptor from the classroom building to the south (Figure 3)

AOC-2 extends south from, and includes, the parking lot located east of Cantara Street to Building J. AOC-2 extends west from the eastern campus boundary at Aliso Canyon Wash to the west side of the central access road. The southern portion of AOC-2 is contiguous to AOC-1. There are 16 classroom/administrative buildings/bungalows within this AOC. All but two structures are single-story buildings. Five bungalows are located immediately south of the parking lot off Cantara Street. A bathroom building is located at the northeast corner of the AOC and east of the bungalows. Twin two-story buildings (Buildings C and P) are located along the access road south of the bungalows. A walled LADWP transformer station is located at the southeast corner of the AOC. A set of eight storage bins are located between the transformer station and Building J, at the southern end of the AOC (Figure 4).

AOC-3 is located immediately south of AOC-2 and east of AOC-1. AOC-3 includes the access road between AOC-1 and AOC-2 and extends east to the fenced boundary between the school campus and Aliso Canyon Wash. The school baseball field is located immediately south of AOC-3. AOC-3 includes nine single-story classroom buildings and a restroom building in the center of the area. A small storage building is located at the southwest corner of the AOC-3. Several planters and tree wells are located at the north side of AOC-3, and three larger rectangular plots located on the west side of the area are landscaped with grass or small citrus trees. The fenced boundary between the school campus and Aliso Canyon Wash

turns to the east at the southeast corner of AOC-3. Two bins, two elevated trailers and sports workout equipment are located in this area (Figure 5).

AOC-4 extends from the southeast corner of AOC-3 to the Wilbur Avenue entrance to the school. This AOC follows the southern portion of the proposed access road through the campus, which will extend along the eastern school boundary from the current Wilbur Avenue gate to the parking lot east of Cantara Street. Two classroom structures and a small parking area adjacent to the classrooms are also located within this AOC. The AOC includes a narrow landscaped area north of the classrooms between the baseball field and the school boundary fence (Figure 6).

AOC-5 is a small area at the south end of campus focused on two adjacent bungalows. The structures are located immediately north of the Cleveland EEC, west of the access road and east of the campus tennis courts (Figure 7).

The parking areas and areas between classrooms within each of the AOCs are asphalt-paved. The access road that extends through campus is also asphalt-paved. Landscaped areas within AOCs have little ground cover other than smaller trees, vines and shrubs. The mature trees on campus did not appear to be distressed.

The campus is flat with a gradual slope to the south, so any precipitation not percolating into landscaped areas travels over paved portions of the campus as sheet flow and is directed to scattered stormwater drains or to the central access road. Shallow concrete culverts located within some of the paved areas also direct runoff to the stormwater drains or to the access road. The stormwater drains are located in the access road and scattered through the campus. One of these drains is located at the southeast corner of the storage building at the southwest corner of AOC-3. A shallow concrete culvert leads to this drain. A similar concrete culvert is located behind the Utility Building in AOC-1. A stormwater collection main located below the center of the access road leads eventually to an outfall in Aliso Canyon Wash.

The school is within the Northridge Primary Sewer Drainage Basin and the W10 secondary sewershed. Wastewater from the school is directed to the Tillman Water Reclamation Plant in the south-central portion of the San Fernando Valley. The sewer system is operated by the City of Los Angeles Department of Public Works (LADPW). One offsite private sanitary sewer or septic system was identified within 0.5 miles of an AOC on the September 8, 2013

map of On-Site Wastewater Treatment Systems (OWTS) for Council District 3 produced by the Wastewater Engineering Services Division of the City of Los Angeles Bureau of Sanitation. It is not expected to impact the proposed school construction project. Evidence of a septic system was not observed within the AOCs by Pinnacle during the current field investigation.

LADWP supplies power to the school. Transmission towers carrying 127 kilovolts (kV) of power are located along the west side of the concrete-lined Aliso Canyon wash and adjacent to the eastern school boundary. None of the current or planned campus structures are within 100 feet of these lines. Power is brought into the campus at the location of the enclosed transformer area at the southeast corner of AOC-2. No other high-voltage (greater than 50 kV) lines operated by either LADWP or Southern California Edison (SCE) are located within 100 feet of the AOCs.

Southern California Gas (SCG)/The Gas Company supplies natural gas to the school and vicinity. According to the Safety Element of the Los Angeles Master Plan and information available on the National Pipeline Mapping System, a high-pressure distribution line and a high-pressure transmission line are located within 100 feet of the school. These lines are operated by the Gas Company and are located immediately east of AOC-4 in the right-of-way (ROW) below Wilbur Avenue. Another Gas Company distribution line is located north of the school in the ROW below Roscoe Boulevard. No gas transmission or distribution lines were identified within the school boundaries. No operating hazardous liquid pipelines are located adjacent or on the school property. A purged and out-of-service oil pipeline operated by Crimson Pipeline, L.P. is located north of the school in the ROW below Roscoe Boulevard.

Water to the school is provided by LADWP. Based on a five-year average of deliveries, approximately 36% of the LADWP supplies have been produced from the Eastern Sierra via the Los Angeles Aqueduct system. Approximately 11% of the supply has been pumped from wells in the San Fernando Valley. Recycled water accounted for 1% of the water delivered to customers over this period. The remainder of the City's supplies (approximately 52%) have been imported from Metropolitan Water District sources such as the Colorado River and Feather River.

3.3 Previous Investigations

Ninyo & Moore produced a Phase I ESA Report for the whole school campus dated August 16, 2016. That assessment did not identify any previously conducted environmental investigations for the school or contiguous property. However, it identified potential RECs within the project area that were used to produce this PEA-E.

4.0 APPARENT PROBLEM

The earlier Phase I ESA for the project areas identified the following potential RECs:

- Based on the age of the project area buildings, soils may be impacted with lead due to the prior application of lead-based paints (LBP).
- Soils may be impacted with arsenic and organochlorine pesticides (OCPs) as a result of possible pesticide application within the identified AOCs.
- Total petroleum hydrocarbon- (TPH) impacted soil may be present in AOC-1. Gasoline and gasoline-powered equipment has been stored in a storage closet at the northeast corner of the Utility Building. Fuel spillage may have reached soils in a nearby planter.

There are no known spills or releases of hazardous substances that have occurred at the project area. Due to the planned demolition and construction activities at the project area, soil disturbances may result in the completion of the potential exposure pathways (ingestion, inhalation, and dermal contact) described in Section 5.0.

5.0 ENVIRONMENTAL SETTING

5.1 Identification of Contaminants of Potential Concern

Ninyo & Moore's Phase I ESA identified a limited number of current and historical land uses within the project area boundaries. Based on this history, OEHS and Pinnacle elected to analyze soil samples for a specific set of potential contaminants. These included the following compounds.

- Total lead
- Arsenic
- OCPs
- TPH and volatile organic compounds (VOCs)

These compounds of potential concern (COPCs) were selected primarily due to the possible use of LBP on buildings intended for demolition, and the possible application of a variety of pesticides (including those with lead and arsenic) in soils below pavements and in planters adjacent to campus buildings. Analysis for TPH and VOCs was deemed necessary due to the possibility of fuel spillage to a planter located adjacent to a storage locker containing gasoline-powered equipment and fuel containers.

5.2 Conceptual Site Model

Pinnacle prepared a preliminary Conceptual Site Model (CSM) to use with this PEA-E and within a potential future Human Health Screening Evaluation (HHSE). The COPCs identified above were utilized to prepare the CSM that identified potential receptors, exposure media, and exposure pathways within the project area.

The COPC concentrations were compared to screening values to assess whether further HHSE or eventual Human Health Risk Assessment (HHRA) activities were needed. The screening level currently used for arsenic at LAUSD school sites is 12 milligrams per kilogram (mg/kg), which is the California Department of Toxic Substances Control's (DTSC's) upper bound estimate (95th percentile) for background concentrations in Southern California (DTSC, 2008). LAUSD currently uses the California Human Health Screening Level (CHHSL) of 80 mg/kg when considering lead concentrations in soil for additional assessment. OCPs were compared to the most recent available United States Environmental

Protection Agency (EPA) Region 9 Regional Screening Levels (RSLs) (EPA, 2015). These concentrations are consistent with those provided by the DTSC Office of Human and Ecological Risk (HERO) in *HERO HHRA Note Number: 3* (DTSC, 2016).

An exposure pathway describes the route a chemical, in a variety of forms, may take from a source to an exposure point where a receptor can interact with the chemical. A complete exposure pathway includes five components.

- A primary source(s) of contamination (e.g., storage tanks, the land application of a pesticide)
- A secondary source(s) of contamination (e.g., COPC vapors, contaminated dust, subsurface soil contaminated by the migration of a release substance)
- Release mechanisms (e.g., direct contact of various media, wind-blown dust, stormwater erosion, leaching from various media)
- Transport media (e.g., surface soil, air, stormwater runoff)
- Receptors (e.g., persons or biota).

Typical exposure pathways include incidental ingestion of soil, dermal contact with soils, and inhalation of contaminated fugitive dust. Since volatile chemicals were not identified as significant COPCs within the designated AOCs, the CSM did not consider inhalation of chemical vapors in outdoor and indoor air. The CSM described the pathways by which receptors may have been and might be exposed to the COPCs within the project area.

A summary of the site-specific CSM criteria for the project area is provided below.

5.3 Potential Sources of Contamination

Based on research conducted during N&M's Phase I Environmental Assessment, the potential sources that might result in a release of hazardous substances to the environment included the weathering of LBP (from pre-1979 structures), and lead, arsenic and OCPs as a result of possible pesticide application within the project area. One location in a concrete lined planter may have had a local release/spillage of fuels.

5.4 Release Mechanisms

The campus was agricultural land prior to construction of the earliest buildings in 1959. Weathering, scraping, and chipping of potential LBP surfaces may have caused lead to be released and accumulate in soil around past and current structures. The use of lead arsenate and arsenic trioxide as a termiticide and general insecticides has been known to result in significant concentrations of these metals and OCPs in soils around structures with wood components built prior to January 1, 1989. Considering the age of existing structures within the project area and the initiation of agricultural land uses prior to the construction of the school, lead, arsenic and OCPs may have been released to near-surface soils in the project areas.

5.5 Transport Mechanisms

Once released to soil, heavy metals and OCPs are relatively immobile. These substances are not easily soluble, and will not typically leach into surface water or migrate to groundwater. They will likely adsorb to soil particles, and they will not volatilize and migrate as vapors. Older surface releases of these COPCs, prior to school development, are less likely to be discovered in significant concentrations due to the ground surface grading conducted for school construction.

5.6 Exposure Points

The primary exposure point currently and during future construction is expected to be dermal contact with surface soil with elevated COPCs. However, exposure could also occur through inhalation of dust, or incidental ingestion of dust.

5.7 Potential Receptors

Current receptors are primarily students and staff at the school. The potential future receptors will also include workers involved in the demolition of current structures and construction of the new buildings.

6.0 SAMPLING ACTIVITIES AND RESULTS

Pinnacle conducted soil sampling and analysis to assess whether past activities within and immediately adjacent to the project area resulted in environmental impairments. Preparations were also made to collect groundwater grab samples for analysis, but shallow groundwater was not encountered during the assessment.

6.1 Stage I Soil and Soil Vapor Sample Collection

The preliminary scope of work provided by OEHS for this assessment provided a sampling protocol with 129 Stage I boring locations based on proximity to current project area structures. The sampling protocol included two stages of sampling. The second period (Stage II) of sampling provided for up to 32 lateral step-out locations based on the results of Stage I sample analysis. The initial analytical program was provided for bidding purposes. It consisted of the following number of analyses.

- Total lead (EPA Method 6010B) – 220
- Lead - Soluble Threshold Limit Concentration (STLC) Determination - 5
- Lead – Federal Toxicity Characteristic Leaching Procedure (TCLP) - 1
- Arsenic (EPA Method 6020) - 220
- TPH (EPA Method 8015M) - 7
- VOCs (EPA Method 8260B/5035) - 11
- California Code of Regulations, Title 22 CAM-17 Metals (EPA Method 6010B/7471A) - 2
- OCPs (EPA Method 8018A) – 77
- Polychlorinated Biphenyls (PCBs) – 10% of samples

After meeting at the project area, Pinnacle and OEHS modified this initial scope of work. Based on the preliminary scoping criteria and discussions during the meeting, a map was produced consisting of 76 Stage I hand-auger soil sampling locations. After generating several iterations of the maps for the five AOCs during discussions with OEHS, Pinnacle met with OEHS at the project area on November 11, 2016, to discuss the final sampling locations and to mark these final locations in chalk. A final set of five maps illustrating the sampling locations in each AOCs was subsequently produced for performing Stage I fieldwork.

In addition to the 76 Stage I soil sampling locations across the project area, soil vapor sample collection was proposed adjacent to an interceptor located in the driveway in AOC-1. Two sets of two nested temporary vapor probes were proposed on either side of the interceptor. The workplan prepared by Pinnacle proposed using two sets of probes set at 5 and 15 feet bgs at each location. Each of the four soil vapor samples and a duplicate vapor sample were planned for collection using the July 2015 DTSC Advisory for collection and analysis of VOCs using EPA Method TO-15 (Figure 3).

The surrounding community was notified regarding the field work. A description of public notification efforts is provided in Section 9.0.

Pinnacle prepared a Workplan for the fieldwork. The final Workplan, dated November 15, 2016, incorporated the Stage I sampling locations agreed upon by OEHS and Pinnacle. The document was submitted electronically to OEHS on November 17, 2016. Table 1 is the final sampling summary generated for the Workplan.

Pinnacle met Spectrum Geophysics (Spectrum) at the school on November 11 and November 14, 2016 to perform a survey of subsurface utilities at the previously marked boring locations. At Pinnacle's request, Spectrum marked the utilities in the vicinity of the marked boring locations in yellow grease pencil rather than colored paints. Several sampling locations were moved a distance of less than five feet to avoid utilities and irrigation lines. Another utility locating firm had completed their work for another project when Spectrum began their work for Pinnacle. They marked utilities in colored paints. Pinnacle delineated the corners of the project area boundaries and each boring location on the morning of November 11, 2016, as required by Underground Services Alert of Southern California (DigAlert). DigAlert was notified on November 11, 2016, regarding the intended subsurface work and issued number B63220563-00B to identify the intended subsurface work and to notify effected member locaters. None of the Stage I sampling locations needed to be moved based on the information generated by the DigAlert locaters.

The soil sampling procedure used for the investigation followed suggested procedures for soil sampling and analysis for non-volatile compounds used by OEHS contractors in the past. These procedures have been approved on projects overseen by DTSC. A Stage I soil sample for VOCs and TPH analyses and two samples intended for use in profiling material for future disposal were collected to minimize sample disturbance in accordance with EPA Method 5035. General Pinnacle sampling procedures are included in Appendix A of this report.

Stage 1 soil samples were collected on November 21 and November 22, 2016, by Blaine Tech Services, Inc. (Blaine) field technicians using stainless steel hand auger equipment. Surface asphalt was cored as needed prior to soil sampling. Visibly-apparent loose material that entered the hole was removed prior to sampling.

The shallowest soil sample from each boring was collected within the first 0.5 feet of soil. Subsequent samples were collected at 1.5 feet and 2.5 bgs. Auger refusal was encountered at one boring location, B56, at a depth of 0.8 feet bgs. Only the 0.5-foot soil sample was collected at this location. Soil collected from the auger head was transferred to new, 4-ounce glass jars provided by the laboratory. Disposable nitrile gloves were worn during sampling and were discarded after sampling each borehole. The filled jars were labeled and placed in a cooler with blue ice. The following unique information was provided on each sample label.

- Project area name
- Borehole number (PB-1 through PB-46)
- Sample number (with depth)
- Sampling date and time

The auger heads were decontaminated between boreholes using a tap water/alconox wash, and two tap water rinses.

A chain-of-custody (COC) document was completed as samples were collected. The first set of Stage I samples were delivered to the analytical laboratory the morning after the second and final day of collection. The subsequent Stage II soil samples were delivered the same day as they were collected.

Boreholes were backfilled with soil cuttings and patched with asphalt to match the previous surface. The remaining soil cuttings, asphalt cores and decon water were placed in a drum for later disposal. An additional sample was collected from the drum of cuttings for analysis of VOCs using EPA Method 8260B, CAM-17 Metals using EPA Method 6010B/7471A and TPH using EPA Method 8015C. These analytical results were used to characterize the drummed soil for disposal.

6.2 Soil Sample Analytical Methods

Soil analyses were performed by SunStar Laboratories, Inc. (SunStar), a California state-certified hazardous waste laboratory. The shallowest sample from each boring was analyzed for one or more of the following constituents, using a three- to five-day turnaround time.

- Total lead - EPA Method 6010B
- Arsenic - EPA Method 6010B
- OCPs - EPA Method 8081A

The shallowest samples from borings B7, located near a storage room with fuel containers, and B58, located near a drain in AOC-3, were also analyzed for the following constituents.

- TPH – EPA Method 8015C

Successively deeper soil samples were analyzed from each boring until a sample achieved an arsenic concentration of 12 mg/kg or less or a lead concentration of 80 mg/kg or less. No deeper samples required analysis based on the OCP, PCB, or TPH results at 0.5 feet bgs. Table 2 is a compilation of the analyses performed on the soil samples from each boring.

6.3 Stage I Soil Sample Analytical Results

Table 3 is a summary of the analytical results for the Stage I discussed in this subsection and the Stage II analyses discussed in subsection 6.4.

Organochlorine Pesticides

Soil samples from 62 of the 76 Stage I soil borings were analyzed for OCPs. A total of 19 soil samples were composited into 7 samples for OCP analysis. Four of the analyzed samples had one detectable OCP. Two samples, B37-0.5 and B48-0.5, had two detectable OCPs. Alpha-chlordane was detected in three of the shallowest samples (B4-0.5, B31-0.5, and B48-0.5) at a concentrations ranging from 5.6 to 21 micrograms per kilogram ($\mu\text{g}/\text{kg}$). Dieldrin was detected in three samples (B7-0.5, B33-0.5, and B37-0.5) at concentrations ranging from of 8.3 to 29 $\mu\text{g}/\text{kg}$. Gamma-chlordane was detected in sample B48-0.5 at a concentration of 13 $\mu\text{g}/\text{kg}$. Endosulfan I was detected in sample B37-0.5 at a concentration of 5.8 $\mu\text{g}/\text{kg}$ (Table 4). Pesticides were not detected above laboratory reporting limits (RLs) in any of the composited soil samples from the raised planter beds in the project area.

The soil samples with detectable OCPs were located in AOC-1, AOC-2 and AOC-3. None of the locations with shallow detectable OCPs defined a larger area of impacted soil. The locations with detectable OCPs did not correlate with any specific surface structures or depressions in the unpaved ground surface.

The maximum concentrations of the OCPs detected in the soil samples did not exceed the EPA Region IX RSLs for residential soil for chlordane (1,700 $\mu\text{g}/\text{kg}$) and dieldrin (34 $\mu\text{g}/\text{kg}$). Analysis of additional soil samples was not required to delineate the vertical or horizontal extent of OCPs in the Stage I borings (Table 4).

Lead

The six-inch soil samples from 72 of the 76 Stage I borings were analyzed for total lead using EPA Method 6010B. Fifty-five of the soil samples did not have detectable lead. The detectable lead results from the seventeen 0.5-foot samples ranged from 23 mg/kg to 190 mg/kg. Three of the analyzed soil samples had a total lead result above the residential CHHSL of 80 mg/kg (OEHHA, 2009): B37-05 (190 mg/kg), B54-0.5 (150 mg/kg) and B7-0.5 (88 mg/kg). None of the remaining detectable lead concentrations exceeded 45 mg/kg (Table 5).

The borings that produced the three 0.5-foot samples with the highest three lead results were selected for additional analysis of 1.5-foot samples to delineate vertical extent during Stage II sampling activities at the project area.. In borings B37 and B54, lead concentrations in the 1.5-foot samples were below the laboratory reporting limit. In boring PB-18, the 12-inch sample had a lead concentration of 18 mg/kg. The 1.5-foot sample from boring B7 had a lead concentration of 3.5 mg/kg (Table 5).

Arsenic

The 0.5-foot samples collected from 74 of the 76 Stage I borings were analyzed for arsenic. A total of 63 of the 76 samples did not have a concentration of arsenic above the reporting limit. Two soil samples had arsenic concentrations above 12 mg/kg, which is the DTSC upper bound (95th percentile) estimate for background arsenic concentrations in Southern California (Chernoff, G., et al, 2008). These two samples had arsenic concentrations of 14 mg/kg (B58-0.5) and 65 mg/kg (B10-0.5) (Table 5).

The screening level of 12 mg/kg was used to determine whether additional analyses were required to assess the vertical limit of arsenic above background levels. Based on the arsenic data generated in the samples collected at a depth of 0.5 feet, two additional soil samples collected at 1.5 feet were also analyzed to determine vertical extent. One of these deeper samples (B10-1.5) had an arsenic concentration below the reporting limit. The other deeper sample (B58-1.5) had an arsenic concentration of 14 mg/kg, which required the analysis of the 2.5-foot sample from the same boring. That sample (B58-2.5) had an arsenic concentration of 9.1 mg/kg. No additional analyses were required from this boring location.

Polychlorinated Biphenyls (Aroclors)

Nine soil samples randomly distributed across the AOCs were analyzed for PCBs using EPA Method 8082 during Stage I soil sampling activities. Eight of the nine samples did not have reportable concentrations of PCBs. One sample, B57-05, had 20 $\mu\text{g}/\text{kg}$ of Aroclor 1260. This concentration did not exceed the EPA Region IX RSL of 240 $\mu\text{g}/\text{kg}$ for Aroclor 1260. Based on these results, no additional analysis of Stage I or Stage II soil samples were required to assess the presence of this compound within the project area (Table 6)

Total Petroleum Hydrocarbons, Volatile Organic Compounds, Title 22 Metals

The samples collected at 0.5 feet bgs from borings B7 and B58 were analyzed for full-scan TPH. Boring B7 was advanced in a planter located adjacent to a closet at the northeast corner of the utility building in AOC-1 that is used for storing gasoline and gasoline-powered equipment. The planter was part of the original school hardscape and was raised above grade. A mature tree and healthy vine ground cover were growing in the planter (Figure 3). The 0.5-foot soil sample from boring B7 had diesel-range TPH concentration of 13 mg/kg and oil-range TPH at concentration of 15 mg/kg.

Boring B58 was advanced at the southwest corner of AOC-3, adjacent to a stormwater drain inlet and small storage building. The 0.5-foot soil sample from boring B58 had diesel-range TPH concentration of 110 mg/kg and oil-range TPH at concentration of 170 mg/kg.

A third soil sample from a drum of soil cuttings and asphalt cores was analyzed for TPH for waste characterization. It had a diesel-range TPH concentration of 150 mg/kg and oil-range TPH at concentration of 400 mg/kg. The drum sample was also analyzed for VOCs using EPA Method 8260B, and for CAM-17 metals. No VOCs were identified in the sample. The

concentrations of CAM-17 metals in the drum sample were lower than the respective Toxic Threshold Limit Concentrations (TTLCs) and ten times the STLCS.

A soil sample was collected immediately adjacent to boring B37 at a depth of 0.5 feet specifically for analysis of VOCs. The analysis was required to profile soil recommended for excavation and disposal from selected locations within the project area. Duplicate samples of undisturbed soil were collected from the base of a shallow depression in the ground surface using an EnCore® 5-gram sampler. A shovel was used to dig and backfill the hole to collect the samples. The samples were sealed in the samplers, chilled on ice and delivered the same day to SunStar for VOCs analysis using EPA Method 8260B. No VOCs were detected in the sample.

All of the hand-augered boreholes were advanced through clays and silty clays with no detectable odors. Small bits of foreign material noted in the shallowest clayey soil indicated that it was mingled with foreign material most likely during grading for original school construction.

A set of Stage II step-out locations was proposed based on the results of the Stage I boring analyses. The final nine boring locations were selected by OEHS and Pinnacle. The Stage I arsenic results at two boring locations required three additional boring locations to delineate the lateral extent. One of these Stage II borings was located in AOC-1, in a planter at grade north of Building L (Figure 3). The second boring was located in the southeast corner of AOC-3, at the end of a shallow concrete culvert leading to a drain (Figure 5). Stage I lead results at two boring locations required six additional boring locations to delineate lateral extent. Two of these Stage II borings for lead delineation were located north of Building J at the southwest corner of AOC-2. The four other Stage II borings for lateral extent of lead delineation were located near the center of AOC-3 surrounding Stage I boring B54. The Stage I OCP and TPH results did not require additional Stage II assessment based on the selected criteria.

The nine Stage II soil borings were marked with chalk on December 20, 2016. DigAlert was notified on that date regarding the additional subsurface work. Pinnacle renewed the earlier DigAlert ticket number to initiate marking utilities adjacent to the new boring locations, if necessary. The soil sampling was performed by Blaine on December 28, 2016, using the same methods used to conduct Stage I soil sampling.

6.4 Stage II Soil Sample Analytical Results

Three Stage II soil borings were advanced for arsenic delineation. The arsenic results from the three 0.5-foot samples from the borings were: below the laboratory RL (B85-0.5) or below the SL (B83-0.5 at 5.1 mg/kg, and B84-0.5 at 7.2 mg/kg. Since each of these results was less than the screening level of 12 mg/kg, no additional soil analyses were required to delineate vertical or horizontal extent of arsenic in the Stage I boring (Table 5, Appendix B).

Each of the six 0.5-foot soil samples collected at the Stage II locations requiring lead delineation had lead concentrations of less than 80 mg/kg. The lead results were below the detection limit for all of the soil samples except sample B77-0.5, which had a lead concentration of 12 mg/kg. No additional soil analyses were required to delineate vertical or horizontal extent of lead in soil based on these results (Table 5, Appendix B).

Table 5 is a compilation of the Stage I and Stage II arsenic and lead data. Appendix B is the laboratory analytical reports for the Stage I soil samples. Appendix C is the laboratory analytical reports for the Stage II soil samples.

6.5 Discussion of Stage I and Stage II Sampling Results

None of the soil samples collected during Stage I and Stage II sampling had arsenic levels exceeding the TTLC for arsenic of 500 mg/kg. One soil sample, B10-0.5, had an arsenic concentration greater than ten times the STLC for arsenic of 5 milligrams per liter (mg/L), and was subsequently analyzed for soluble arsenic using the STLC method. The sample did not have a soluble arsenic concentration above the RL of 0.5 mg/L. Based on this result, the soil at 0.5 feet in boring B10 is considered non-hazardous for waste disposal purposes (Table 7). The cumulative Stage I and Stage II analytical data has a 95% UCL value for arsenic of 7.4 mg/kg, which is below any of the state or federal lead action levels used for residential soil (Table 5).

None of the Stage I and Stage II soil samples had a lead concentration above the lead TTLC of 1,000 mg/kg. Three soil samples (B7-0.5, B37-0.5 and B54-0.5) had a lead concentration greater than ten times the STLC for lead of 5.0 mg/L. The 0.5-foot samples from borings B7 and B37 were analyzed for soluble lead using the STLC method. A soluble lead result of 6.7 mg/L was reported for sample B7-0.5, and soluble lead result of 6.6 mg/L was reported for sample B37-0.5. Samples B37-0.5 and B54-0.5 were additionally analyzed for soluble lead using the federal TCLP method. Neither sample (B37-0.5 or B54-0.5) had a soluble lead

concentration above the reporting limit of 0.1 mg/L using this method. Based on these results, the soils sampled at 0.5 feet at boring locations B7, B37 and B54 were characterized as a California hazardous waste for disposal purposes (Table 7). The cumulative Stage I and Stage II analytical data has a 95% UCL value for lead of 19.2 mg/kg, which is below any of the state or federal lead action levels used for residential soil (Table 5).

While the 95% UCL for both lead and arsenic are well below their respective screening levels for residential land uses, it is recommended that the shallow soils at five well-defined locations with detected arsenic concentrations above 12 mg/kg and detected lead concentrations above 80 mg/kg be removed from the project area. This housekeeping activity would consist of local excavations to remove soils with concentrations exceeding specific screening levels or regulatory limits. The STLC results for lead from borings B7 and B37 that exceeded the regulatory limit of 5 mg/L support the recommendation for a limited soil removal from these areas. While an STLC analysis for lead was not performed on sample B54-0.5, and the TCLP analysis for lead for this sample did not reveal a reportable concentration of soluble lead, the similar total lead concentration to sample B37-0.5 suggests that a similar STLC concentration might have resulted. As such, this area of soil is also recommended for local removal.

According to the Pinnacle recommendation, areas four by four feet in size, centered on each soil boring with elevated lead or arsenic, would be removed to a depth defined by the sample results. The soils at boring locations B7, B10, B37, and B54 should be removed to a depth of 1.5 feet below the base of the current asphalt or ground surface (if in a planter area). The soils at boring location B58 should be removed to a depth of 2.5 feet bgs.

An estimated surface volume of seven cubic yards of material from these small excavations, using a bulk factor of 140%, will be transported from the project area under this recommended scenario. Based on a density for dry clay of 2,300 pounds per cubic yard, this volume of soil would weight approximately eight tons.

The analytical results generated during this PEA-E indicate that any soil removed from the recommended locations will be transported as a California hazardous waste for disposal at a state-permitted disposal facility. Since each location recommended for excavation has Stage I and Stage II sample analysis to define vertical and lateral extent, no additional confirmation sampling at the project area should be required after excavation of the material. Analytical results generated during the PEA-E should be sufficient to characterize the soil for disposal.

However, additional sampling and analysis of the transported material may be required, depending on the final destination and volume to be transported.

6.6 Soil Vapor Sampling

Soil vapor sampling was recommended to assess whether an interceptor south of the Utility Building in AOC-1 had leaked VOCs or fluids with dissolve-phase VOCs. The single-stage interceptor was observed to be a six-foot tall cylindrical concrete vessel with two entrances from the south. The conveyance lines connected to the vessel were oriented one above the other and were approximately 3 feet apart. Several inches of fluid with no odor were observed in the interceptor. Cracks were not visually observed in the walls of the interceptor.

6.6.1 *Vapor Probe Installation*

Two pairs of nested soil vapor points on opposite sides of the manhole cover were located to assess the soil vapor adjacent to the interceptor. Since relatively impermeable soils were identified while conducting shallow soil sampling, continuous samples were collected to identify permeable zones for vapor sample well completion.

Vapor probe installation was performed on November 22, 2016. Each boring was advanced by American Analytics, Inc., using Geoprobe[®] equipment using Macro-Core[®] samplers to collect soil samples. Sampling began below the asphalt base to a depth of 15 feet bgs. The soil samples were collected in an acetate liner and were described by a State-registered geologist using the Unified Soil Classification System. The boring logs produced from the sampling are provided in Appendix D. No staining were observed in the soil and no odors were noted. Soil laboratory analyses were not performed.

Temporary vapor sampling points were set at depths of 13.5 and 3.5 feet bgs through the probe rods. A permeable vapor point was extended to the desired depth from a length of 0.25-inch (O.D.) NylaFlow[®] tubing. Sand pack consisting of #2/12 washed sand was installed from 13 to 15 feet bgs and from 3 to 5 feet bgs to provide a larger zone for the accumulation of vapor from the fine-grained soils. Bentonite chips poured between the two sand packs and from 0.5 to 3 feet bgs were hydrated to seal the well. The two tubes at each location were capped at the surface and coiled in the open hole below the surface.

All downhole equipment was decontaminated between borings using a solution of non-phosphate detergent, with tap water and distilled water rinses. A brush was used to dislodge

soil from the equipment. The equipment was rinsed with tap water after washing. A final rinse with distilled/deionized water was performed and the equipment was allowed to air dry prior to reuse. The sampling equipment was kept off the ground after washing and between samples.

6.6.2 Soil Vapor Sample Collection and Handling

Soil vapor samples were collected on November 30, 2016, eight days after vapor probe installation. Pinnacle performed the soil vapor sampling using equipment provided by SunStar. Each of the four probes was purged of three volumes of vapor prior to sampling using evacuated in laboratory-supplied, one-liter Summa canisters. The vapor samples were collected in separate one-liter Summa canisters after purging. The canisters intended for sample collection were decontaminated by the lab prior to sampling and batch-certified clean. The flow rate into each canister was controlled using a designated flow controller set by Sunstar to a flow of 150 milliliters per minute (ml/min). The canisters, flow controllers and well tubing were connected using new NylaFlow[®] tubing and Swagelok fittings. In addition to the four vapor probe samples, a duplicate soil vapor sample was collected and analyzed from soil vapor probe SV2-13.5.

A leak test was performed at each probe location. A cloth soaked with a suitable tracer compound (isopropyl alcohol) was wrapped around the vapor probe. Each vapor sample was analyzed for the tracer compound.

Each sample was labeled with the following information:

- Project number
- Project name
- Project location
- Sample identification
- Sampler initials
- Data and time of collection

The samples from the vapor probes were delivered on the date of sampling to SunStar.

6.6.3 Analytical Methods and Results

Each sample from the vapor probes was analyzed for VOCs using EPA Method TO-15. The chromatogram for each vapor sample was checked for a peak indicating the presence of the tracer compound in the sample. None of the analytical results were discarded or repeated due to a detection of the tracer gas.

Low concentrations of trichloroethene (TCE) were identified in each of the soil vapor samples. TCE concentrations ranged from 5.5 to 620 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), which is equivalent to 1.0 to 115 ppbv. The highest concentration, which was two orders of magnitude greater than other detected TCE, was identified in vapor probe SV2-3.5. Tetrachloroethene (PCE) was only identified in vapor probe SV2-13.5, at a concentration of $14 \mu\text{g}/\text{m}^3$ (2 ppbv). Benzene was identified in the two deeper vapor probes at concentrations of $5.5 \mu\text{g}/\text{m}^3$ (1.7 ppbv) (SV1-13.5) and $10 \mu\text{g}/\text{m}^3$ (3.1 ppbv) (SV2-13.5). Toluene was detected in well SV2-13.5 at a concentration of $4.6 \mu\text{g}/\text{m}^3$ (1.2 ppbv). Xylenes were detected in wells SV1-3.5 ($11 \mu\text{g}/\text{m}^3$) and SV2-13.5 ($10 \mu\text{g}/\text{m}^3$). These xylene concentrations are equivalent to 2.3 and 2.5 ppbv, respectively (Table 8).

The $620 \mu\text{g}/\text{m}^3$ of TCE in the shallower soil vapor point at SV2 slightly exceeds the $480 \mu\text{g}/\text{m}^3$ SL for TCE in a residential setting. The results suggest that this occurrence of TCE was localized in the shallow clayey soil, and may be due to historical spillage of TCE and does not reflect a release from the interceptor.

The final laboratory report of analytical results for soil vapor is provided in Appendix E. A tabulated summary of laboratory results is provided in Table 5.

Since the data set does not indicate a significant area of impacted soil vapor, Pinnacle recommends including the area surrounding vapor probe SV2 for removal during housekeeping activities. In this case, Pinnacle recommends excavating a four by four foot area to a depth of four feet, which will extend the excavation below the shallow vapor probe. Excavation of this material will add approximately 3.5 cubic yards (4 tons) of material to the estimated 7 cubic yards (8 tons) of material produced from the recommended excavation of soils with lead and arsenic concentrations above background levels.

6.7 Drum Disposal

A drum of cuttings and asphalt cores was produced during Stage I and Stage II soil sampling. At the request of the school plant manager, the drum was temporarily placed behind the utility building. A soil sample from the drums was analyzed for TPH, VOCs, OCPs and CAM-17 metals. These analyses were used to characterize the soil as non-hazardous. The drum was removed from the project area on January 24, 2017 by Belshire Environmental and transported to the Soil Safe of California facility in Adelanto, California, for proper disposal. The manifest for the drum disposal is included in Appendix F of this report.

7.0 HUMAN HEALTH SCREENING EVALUATION

Jill Ryer-Powder, Ph.D., the Principal Health Scientist for Environmental Health Decisions (EHD), performed a Human Health Screening Evaluation (HHSE) as a task within this assessment. The HHSE was required to evaluate whether an additional HHRA would be required prior to construction activities. The results of the EHD HHSE are provided in Appendix G.

A list of COPCs was generated while developing the scope of work for this assessment. A CSM was also prepared that identified the potential receptors (residential), the exposure media (soil), and the exposure pathways (dermal, inhalation of outdoor air, vapors and dust, and potential ingestion) for these COPCs within the project area boundaries.

The HHSE compared the accumulated Stage 1 and Stage 2 laboratory data against recognized appropriate screening values. As discussed earlier, the current screening level for LAUSD school sites for arsenic is 12 mg/kg and the current LAUSD screening level for lead is 80 mg/kg. OCPs were compared to the most recent versions of EPA Region 9 RSLs. OCPs have individual, specific RSLs. These concentrations were modified when needed, based on discussions in the *HERO HHRA, Note Number 3*. The maximum detected concentration of each COPC was used as the exposure point concentration in the HHSE.

The EHD HHSE considered both cancer risks from carcinogens, and noncancer health effects from other chemicals. The cumulative cancer risk calculated by EHD for the project area was 9.3×10^{-7} , which does not exceed the *di minimus* risk value of 1×10^{-6} . The calculated noncancer hazard index of 0.01 did not exceed the acceptable value of 1. No additional investigation is indicated based on these results.

8.0 ECOLOGICAL SCREENING EVALUATION

Ecological Screening Evaluations (ESEs) are conducted to determine whether an Ecological Risk Assessment (ERA) or eventual remedial actions are required in environmentally sensitive natural resources (ESNR) associated with contaminated sites, and to provide the means to determine ecological risk-based remediation goals. ESNRs are defined as environmentally sensitive areas on or adjacent to contaminated sites. More specifically, an ESE calculates risk factors for non-domesticated terrestrial and aquatic plants and animals, but can also include domesticated species, such as livestock.

An ecological risk evaluation was not deemed necessary, or conducted, for the project area because Grover Cleveland Charter High School is located in a fully-developed urban setting, is occupied and surrounded predominately by commercial and residential building structures, and does not maintain natural resources required to support wildlife habitats.

9.0 COMMUNITY PROFILE AND OUTREACH

Grover Cleveland Charter High School is surrounded by a residential neighborhood consisting primarily of single-family homes. The students, staff and surrounding community were notified regarding the planned fieldwork. The Community Relations Group at LAUSD provided a general notification that was edited by the OEHS Project Manager and Pinnacle to describe the work to be conducted at the project area. The Community Relations Group at LAUSD and Pinnacle provided a spanish translation of the final notification. The following groups were provided with a copy of the notification.

- Surrounding Residences/businesses (219 total) – Mailed on November 16, 2016, to those on a list generated by the LAUSD Community Relations Group.
- School Teachers and Staff – Distributed to students on November 16, 2016, by mail.
- Parents of School Students (3,195 total with teachers and staff) – Distributed to students on November 16, 2016, by mail.
- Posted Notices – Placed at visible locations on fences and walls surrounding the project area.

Copies of the notification were also left for review in the Main Office at the school. A copy of the notice is provided as Appendix H.

10.0 CONCLUSIONS AND RECOMMENDATIONS

Pinnacle has completed the following work at the project area.

- Eight-five soil borings were advanced by hand auger to a planned target depth of 2.5 feet bgs. Seventy-five of the 76 Stage I borings reached the target depth. Auger refusal occurred in Boring B56 at a depth of 0.8 feet bgs. Each of the nine Stage II borings reached the target depth of 2.5 feet bgs. All of the borings reached an adequate depth to delineate vertical extent of the COPCs.
- Saturated conditions were not encountered in any of the boreholes, so no groundwater grab samples were collected.
- Eighteen of the 80 soil samples analyzed for arsenic had reportable levels of arsenic at concentrations ranging from 4.6 to 65 mg/kg. Two borings (PB-7 and PB-58) reported arsenic at concentrations exceeding the LAUSD screening level of 12 mg/kg. These arsenic concentrations did not continue to depths greater than 2.5 feet bgs. The highest arsenic concentrations were not confined to a particular area and do not define a larger area of impacted soil. The cumulative Stage I and Stage II analytical data has a 95% UCL value for arsenic of 8.59 mg/kg, which is well below the state or federal arsenic screening levels used for residential soil.
- Eighteen of the 81 soil samples analyzed for lead had reportable levels of lead at concentrations ranging from 12 to 190 mg/kg. The highest lead concentrations were outliers that do not correlate with particular soil types or the project area location. The cumulative Stage I and Stage II analytical data has a 95% UCL value for lead of 26.55 mg/kg, which is well below the state or federal lead screening levels used for residential soil.
- Discrete 0.5-foot soil samples from 53 of the 76 Stage 1 soil borings were analyzed for OCPs. An additional 19 soil samples collected at 0.5 feet were composited into 8 samples for OCP analysis. OCPs were not detected above laboratory reporting limits in the composite samples. Four of the analyzed discrete samples had one detectable OCP. Two discrete samples, B37-0.5 and B48-0.5, had two detectable OCPs. Alpha-chlordane was detected in three of the shallowest samples (B4-0.5, B31-0.5, and B48-0.5) at a concentrations ranging from 5.6 to 21 $\mu\text{g}/\text{kg}$. Dieldrin was detected in three samples (B7-0.5, B33-0.5, and B37-0.5) at concentrations ranging from of 8.3 to 29 $\mu\text{g}/\text{kg}$.

Gamma-chlordane was identified in sample B48-0.5 at a concentration of 13 $\mu\text{g}/\text{kg}$. Endosulfan I was detected in sample B37-0.5 at a concentration of 5.8 $\mu\text{g}/\text{kg}$ (Table 3). None of the detectable concentrations of OCPs exceeded the applicable screening level. No additional OCP analyses were required to delineate vertical or lateral extent.

- The two 0.5-foot soil samples analyzed for TPH (B7-0.5 and B58-0.5) did not contain detectable concentrations of gasoline-range hydrocarbons. Detectable concentrations of heavier-end TPH in both of the shallow samples were likely due to asphalt bits incorporated in the soil during sampling.
- Two pairs of nested soil vapor probes were installed adjacent to an interceptor in AOC-1. Each of the four soil vapor samples was analyzed for VOCs using EPA Method TO-15. One of the four samples had a TCE concentration of 620 $\mu\text{g}/\text{m}^3$, which exceeds the SL for TCE in residential soil vapor of 480 $\mu\text{g}/\text{m}^3$. Due to the clayey soils, no odors from the interceptor, and no other detections of TCE in soil vapor within two orders of magnitude of this sample, it was concluded that this one TCE detection did not indicate that a release from the interceptor had occurred. No additional investigation in the area of the interceptor is recommended.
- Imported fill was not identified at the site. The ground surface is most likely scarified and graded local clayey material, without depositional evidence and occasionally incorporating evidence of earlier structures.
- Three soil samples had lead concentrations greater than ten times the STLC for lead of 5 mg/L. Two of these samples (B7-0.5 and B37-0.5) analyzed using the STLC method had soluble lead concentration exceeding the STLC for soluble arsenic and lead. The third sample (B54-0.5) and one of the other two samples (B37-0.5) were also analyzed for soluble lead using the federal TCLP method. Neither sample had a detectable concentration above the TCLP RL for lead of 0.1 mg/L. One sample (B10-0.5) had an arsenic concentration greater than ten times the STLC for lead of 5 mg/L. It did not have a soluble arsenic concentration above the STLC RL of 5 mg/L.
- Based on the results of soluble lead test results, soil at 0.5 feet located at three boring locations (B7, B10 and B54) is characterized as a California hazardous waste. These soils do not extend to a depth greater than 1.5 feet bgs. Although the LAUSD screening levels for lead and arsenic were exceeded at other locations, the analytical results for the remainder of the project area indicate that these soils are non-hazardous.

Pinnacle provides the following recommendations based on the results of this assessment.

- Based on the results of this additional soil sampling and health screening, Pinnacle does not recommend additional investigation for the identified COPCs.
- Pinnacle recommends removal and offsite disposal of soil located at six locations in three of the five AOCs. These include soil boring locations B7, B10, B37, B54 and B58 and soil vapor probe location SV2. A surface area four feet square at each location would be adequate to mitigate the soil at depth. The soils at sampling locations B7, B10, B37 and B54 should be removed to a depth of 1.5 feet below the base of the current asphalt or surface (if in a planter area). The soils at B58 should be removed to a depth of 2.5 feet bgs. The soils at soil vapor probe location SV2 should be removed to a depth of 4 feet to reach beyond the depth of soil vapor collection at that location.
- Using a conservative bulk factor of 140% and density of 2,300 pounds per cubic yard for dry, clayey soils, an estimated 10.4 cubic yards (12 tons) of soil (on surface) will be produced by these six excavations. The soil will be characterized as a California hazardous waste for disposal purposes. The current data set should be suitable for profiling the material.
- Since vertical and lateral extent of the particular COPC has been documented at each location, additional confirmation sampling should not be required after recommended excavation and removal of soils from the project area.

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**TABLE 1
PROPOSED SOIL SAMPLING SUMMARY**

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Building or Area	Proposed Work	Concerns	Sampling Rationale	Area of Concern	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Building K (MPR and Lunch Pavilion)	Removal	Historical Agriculture Historical Pesticides	Targeted Perimeter	1	1	B1	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1
		Historical Agriculture Historical Pesticides Asbestos and Lead					Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPS - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	4 4 4
		Historical Agriculture Historical Pesticides					Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1
Utility Building	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead Hazard Storage	Targeted Perimeter	1	1	B7	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPS - EPA Method 8081A TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	1 1 1 1
		Historical Agriculture Historical Pesticides Asbestos and Lead					Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPS - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 2
		Historical Agriculture Historical Pesticides Asbestos and Lead					Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPS - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 2
Interceptor	Removal	Vessel/line releases	Targeted to potential release points	1	2	SV1, SV2 (soil vapor)	VOCs - TO-15	3.5', 13.5' 3.5', 13.5'	2 2 +duplicate
North Parking Lot	Removal, New Road	Historical Agriculture Historical Pesticides Asbestos and Lead	Areal Coverage	2	2	B12, B13	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPS - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 2
Buildings A-810 to A-815, AA-1001, AA-1654, AA-1999, AA-962, AA-964	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Areal Coverage of Similar Structures	2	16	B14-B29	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPS - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	16 16 16
Buildings C, H, J and P, Building AA-2366	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	2	9	B30-B38	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPS - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	9 9 9
Access Road	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2, 3	2	B39, B40	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPS - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1

**TABLE 1
PROPOSED SOIL SAMPLING SUMMARY**

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Building or Area	Proposed Work	Concerns	Sampling Rationale	Area of Concern	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Transformers, Buildings C and P	Removal	Potential PCBs in transformers	Targeted	2	2	B41, B42	PCBs - EPA Method 8082	0.5', 1.5', 2.5'	2
Tree wells south of Building J	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	3	B43-B45	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 1
Planters west of Chem Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	2	B46, B47	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1
Chemistry Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	2	B48, B49	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 2
Buildings AA-2199 and 2200, AA-3882 through AA-3887	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Areal Coverage of Similar Structures	3	8	B50-B57	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	8 8 8
Drain at storage locker	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead Hazmat storage	Targeted to potential release point	3	1	B58	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	1 1 1 1
Three lawn areas along access road	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	3	B59-B61	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 1
Access Road west of lawn areas	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	3	B62-B64	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 1
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	4	2	B65, B66	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	4	2	B67, B68	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1

**TABLE 1
PROPOSED SOIL SAMPLING SUMMARY**

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Building or Area	Proposed Work	Concerns	Sampling Rationale	Area of Concern	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Buildings AA-2730 and A-751	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	4	3	B69-B71	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	4	2	B72, B73	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1
Buildings A A-3888 and AA-3889	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	5	3	B74-B76	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3
Total Number of Borings						78			
Locations Requiring Coring						63			

**TABLE 2
SUMMARY OF SOIL ANALYSES**

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Boring No.	Project AOC	Sample Stage	Sample Depth	Arsenic	Arsenic	Lead	Lead	Lead	Title 22 Metals	OCPs	PCBs	TPH	VOCs
		1 or 2	feet	EPA 6010B	STLC	EPA 6010B	STLC	TCLP	6010B/7471A	EPA 8081A	EPA 8082	EPA 8015C	EPA 8260B
B1	1	1	0.5	X									
B2	1	1	0.5	X		X				X			
B3	1	1	0.5	X		X				X			
B4	1	1	0.5	X		X				X			
B5	1	1	0.5	X		X				X	X		
B6	1	1	0.5	X									
B7	1	1	0.5	X		X	X			X		X	
B7	1	1	1.5			X							
B8	1	1	0.5	X		X				X			
B9	1	1	0.5	X		X				X			
B10	1	1	0.5	X	X	X				X			
B10	1	1	1.5	X									
B11	1	1	0.5	X		X				X			
B12	2	1	0.5	X		X				X			
B13	2	1	0.5	X		X				X	X		
B14	2	1	0.5	X		X				X			
B15	2	1	0.5	X		X				X			
B16	2	1	0.5	X		X				X			
B17	2	1	0.5	X		X				X			
B18	2	1	0.5	X		X				X			
B19	2	1	0.5	X		X				X			
B20	2	1	0.5	X		X				X			
B21	2	1	0.5	X		X				X			
B22	2	1	0.5	X		X				X			
B23	2	1	0.5	X		X				X			
B24	2	1	0.5	X		X				X			
B25	2	1	0.5	X		X				X			
B26	2	1	0.5	X		X				X			
B27	2	1	0.5	X		X				X			
B28	2	1	0.5	X		X				X			
B29	2	1	0.5	X		X				X			
B30	2	1	0.5	X		X				X			
B31	2	1	0.5	X		X				X			
B32	2	1	0.5	X		X				X			
B33	2	1	0.5	X		X				X			
B34	2	1	0.5	X		X				X	X		
B35	2	1	0.5	X		X				X			
B36	2	1	0.5	X		X				X			
B37	2	1	0.5	X		X	X	X		X			
B37	2	1	1.5			X							
B38	2	1	0.5	X		X				X			
B39	2	1	0.5	X		X							
B40	2	1	0.5	X		X				X, C			
B41	2	1	0.5								X		
B42	2	1	0.5								X		
B43	3	1	0.5	X		X							
B44	3	1	0.5	X		X				X, C			
B45	3	1	0.5	X		X							
B46	3	1	0.5	X		X							
B47	3	1	0.5	X		X				X, C			
B48	3	1	0.5	X		X				X			
B49	3	1	0.5	X		X				X			
B50	3	1	0.5	X		X				X			
B51	3	1	0.5	X		X				X			
B52	3	1	0.5	X		X				X			
B53	3	1	0.5	X		X				X			
B54	3	1	0.5	X		X		X		X			
B54	3	1	1.5			X							
B55	3	1	0.5	X		X				X			
B56	3	1	0.5	X		X				X			

**TABLE 2
SUMMARY OF SOIL ANALYSES**

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Boring No.	Project AOC	Sample Stage	Sample Depth	Arsenic	Arsenic	Lead	Lead	Lead	Title 22 Metals	OCPs	PCBs	TPH	VOCs
		1 or 2	feet	EPA 6010B	STLC	EPA 6010B	STLC	TCLP	6010B/7471A	EPA 8081A	EPA 8082	EPA 8015C	EPA 8260B
B57	3	1	0.5	X		X				X	X		
B58	3	1	0.5	X		X				X	X	X	
B58	3	1	1.5	X									
B58	3	1	2.5	X									
B59	3	1	0.5	X		X							
B60	3	1	0.5	X		X				X, C			
B61	3	1	0.5	X		X							
B62	3	1	0.5	X		X							
B63	3	1	0.5	X		X				X, C			
B64	3	1	0.5	X		X							
B65	3	1	0.5	X		X				X, C			
B66	3	1	0.5	X		X							
B67	4	1	0.5	X		X				X, C			
B68	4	1	0.5	X		X				X			
B69	4	1	0.5	X		X							
B70	4	1	0.5	X		X				X	X		
B71	4	1	0.5	X		X				X			
B72	4	1	0.5	X		X							
B73	4	1	0.5	X		X				X, C			
B74	5	1	0.5	X		X				X	X		
B75	5	1	0.5	X		X				X			
B76	5	1	0.5	X		X				X			
B77	2	2	0.5			X							
B78	2	2	0.5			X							
B79	3	2	0.5			X							
B80	3	2	0.5			X							
B81	3	2	0.5			X							
B82	3	2	0.5			X							
B83	3	2	0.5	X									
B84	3	2	0.5	X									
B85	1	2	0.5	X									
DRUM Profile	All	Both	All						X	X		X	X
Number of Analyses				80	1	81	2	2	1	61	9	3	2

NOTES:

X - Analysis performed on the designated sample
C - Composite Sample

**TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS**

GROVER CLEVELAND HIGH SCHOOL

8140 Vanalden Avenue
Reseda, California

Analyzed Compounds	Number of Analyzed Samples	Number of Samples with Detections	Range of Detections
Total Lead	81	18	12-190 mg/kg
Arsenic	80	18	4.6-65 mg/kg
OCPs	62	6	
<i>alpha-chlordane</i>	<i>62</i>	<i>3</i>	<i>5.6-21 ug/kg</i>
<i>gamma-chlordane</i>	<i>62</i>	<i>1</i>	<i>13 ug/kg</i>
<i>Endosulfan I (endrin)</i>	<i>62</i>	<i>1</i>	<i>5.8 ug/kg</i>
<i>dieldrin</i>	<i>62</i>	<i>3</i>	<i>8.3-29 ug/kg</i>
Title 22 Metals	1	1	
<i>Barium</i>	<i>1</i>	<i>1</i>	<i>110 mg/kg</i>
<i>Cadmium</i>	<i>1</i>	<i>1</i>	<i>2.0 mg/kg</i>
<i>Chromium</i>	<i>1</i>	<i>1</i>	<i>10 mg/kg</i>
<i>Cobalt</i>	<i>1</i>	<i>1</i>	<i>20 mg/kg</i>
<i>Copper</i>	<i>1</i>	<i>1</i>	<i>15 mg/kg</i>
<i>Molybdenum</i>	<i>1</i>	<i>1</i>	<i>4.4 mg/kg</i>
<i>Nickel</i>	<i>1</i>	<i>1</i>	<i>19 mg/kg</i>
<i>Vanadium</i>	<i>1</i>	<i>1</i>	<i>27 mg/kg</i>
<i>Copper</i>	<i>1</i>	<i>1</i>	<i>11 mg/kg</i>
TPH	3	2	
<i>C13-C28 (diesel range)</i>	<i>3</i>	<i>2</i>	<i>13-150 mg/kg</i>
<i>C29-C40 (oill range)</i>	<i>3</i>	<i>2</i>	<i>15-400 mg/kg</i>
VOCs	2	0	-
PCBs	9	1	
<i>Aroclor 1260</i>	<i>9</i>	<i>1</i>	<i>20 ug/kg</i>

Notes:

OCPs - Organochlorine Pesticides
 TPH - Total Petroleum Hydrocarbons
 VOCs - Volatile Organic Compounds
 PCBs - Polychlorinated Biphenyls

mg/kg - milligrams per kilogram
 ug/kg - micrograms per kilogram
 mdl - method detection limit

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS
PESTICIDES

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Sample Number	Project AOC	Stage 1 or 2	Organochlorine Pesticides (OCPs) (ug/kg)			
			alpha-Chlordane	gamma-Chlordane	Endosulfan I	Dieldrin
EPA Method			EPA Method 8081A			
Reporting Limit			5 ug/kg			
EPA RSL			1,700	1,700	--	34
B2-0.5	1	1	ND < 5	ND < 5	ND < 5	ND < 5
B3-0.5	1	1	ND < 5	ND < 5	ND < 5	ND < 5
B4-0.5	1	1	5.6	ND < 5	ND < 5	ND < 5
B5-0.5	1	1	ND < 5	ND < 5	ND < 5	ND < 5
B7-0.5	1	1	ND < 5	ND < 5	ND < 5	8.3
B8-0.5	1	1	ND < 5	ND < 5	ND < 5	ND < 5
B9-0.5	1	1	ND < 5	ND < 5	ND < 5	ND < 5
B10-0.5	1	1	ND < 5	ND < 5	ND < 5	ND < 5
B11-0.5	1	1	ND < 5	ND < 5	ND < 5	ND < 5
B12-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B13-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B14-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B15-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B16-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B17-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B18-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B19-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B20-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B21-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B22-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B23-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B24-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B25-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B26-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B27-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS
PESTICIDES

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Sample Number	Project AOC	Stage 1 or 2	Organochlorine Pesticides (OCPs) (ug/kg)			
			alpha-Chlordane	gamma-Chlordane	Endosulfan I	Dieldrin
EPA Method			EPA Method 8081A			
Reporting Limit			5 ug/kg			
EPA RSL			1,700	1,700	--	34
B28-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B29-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B30-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B31-0.5	2	1	5.6	ND < 5	ND < 5	ND < 5
B32-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B33-0.5	2	1	ND < 5	ND < 5	ND < 5	8.3
B34-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B35-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B36-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B37-0.5	2	1	ND < 5	ND < 5	5.8	29
B38-0.5	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B39-40-0.5 C	2	1	ND < 5	ND < 5	ND < 5	ND < 5
B43-45-0.5 C	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B46-47-0.5 C	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B48-0.5	3	1	21	13	ND < 5	ND < 5
B49-0.5	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B50-0.5	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B51-0.5	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B52-0.5	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B53-0.5	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B54-0.5	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B55-0.5	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B56-0.5	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B57-0.5	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B58-0.5	3	1	ND < 5	ND < 5	ND < 5	ND < 5

TABLE 4
SUMMARY OF SOIL ANALYTICAL RESULTS
PESTICIDES

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Sample Number	Project AOC	Stage 1 or 2	Organochlorine Pesticides (OCPs) (ug/kg)			
			alpha-Chlordane	gamma-Chlordane	Endosulfan I	Dieldrin
EPA Method			EPA Method 8081A			
Reporting Limit			5 ug/kg			
EPA RSL			1,700	1,700	--	34
B59-61-0.5 C	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B62-64-0.5 C	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B65-66-0.5 C	3	1	ND < 5	ND < 5	ND < 5	ND < 5
B67-68-0.5 C	4	1	ND < 5	ND < 5	ND < 5	ND < 5
B69-0.5	4	1	ND < 5	ND < 5	ND < 5	ND < 5
B70-0.5	4	1	ND < 5	ND < 5	ND < 5	ND < 5
B71-0.5	4	1	ND < 5	ND < 5	ND < 5	ND < 5
B72-73-0.5 C	4	1	ND < 5	ND < 5	ND < 5	ND < 5
B74-0.5	5	1	ND < 5	ND < 5	ND < 5	ND < 5
B75-0.5	5	1	ND < 5	ND < 5	ND < 5	ND < 5
B76-0.5	5	1	ND < 5	ND < 5	ND < 5	ND < 5

NOTES:

Pesticides not included on this table were not detected above the laboratory reporting limit.

ug/kg - micrograms per kilogram

ND - Compound not present above the given reporting limit

EPA RSL - US Environmental Protection Agency Regional Screening Level (residential soil), May 2016

C - Composite sample

TABLE 5
SUMMARY OF SOIL ANALYTICAL RESULTS
LEAD AND ARSENIC

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Sample Number	Project AOC	Stage 1 or 2	Total Lead	Arsenic
EPA Method			6010B	
Screening Level			80 mg/kg	12 mg/kg
Hazardous Waste Criteria		TTLIC	1,000 mg/kg	500 mg/kg
		10 x STLC	50 ug/L	50 ug/L
B1-0.5	1	1	NA	ND < 5
B2-0.5	1	1	33	5.1
B3-0.5	1	1	ND < 3	ND < 5
B4-0.5	1	1	ND < 3	ND < 5
B5-0.5	1	1	ND < 2.7	ND < 4.5
B6-0.5	1	1	NA	ND < 4.5
B7-0.5	1	1	88	ND < 4.5
B7-1.5	1	1	35	NA
B8-0.5	1	1	ND < 3	ND < 5
B9-0.5	1	1	ND < 3	ND < 5
B10-0.5	1	1	ND < 3	65
B10-1.5	1	1	NA	ND < 4.5
B11-0.5	1	1	ND < 2.7	ND < 4.5
B12-0.5	2	1	ND < 2.3	ND < 3.8
B13-0.5	2	1	ND < 2.7	ND < 4.5
B14-0.5	2	1	ND < 2.7	ND < 4.5
B15-0.5	2	1	ND < 2.3	ND < 3.8
B16-0.5	2	1	ND < 3	ND < 5
B17-0.5	2	1	ND < 2.7	ND < 4.5
B18-0.5	2	1	ND < 2.7	ND < 4.5
B19-0.5	2	1	ND < 3	ND < 5
B20-0.5	2	1	ND < 3	ND < 5
B21-0.5	2	1	ND < 3	ND < 5
B22-0.5	2	1	ND < 3	ND < 5
B23-0.5	2	1	44	ND < 5
B24-0.5	2	1	ND < 2.7	ND < 4.5
B25-0.5	2	1	ND < 3	5.8

**TABLE 5
SUMMARY OF SOIL ANALYTICAL RESULTS
LEAD AND ARSENIC**

GROVER CLEVELAND HIGH SCHOOL

8140 Vanalden Avenue

Reseda, California

Sample Number	Project AOC	Stage 1 or 2	Total Lead	Arsenic
EPA Method			6010B	
Screening Level			80 mg/kg	12 mg/kg
Hazardous Waste Criteria		TTLIC	1,000 mg/kg	500 mg/kg
		10 x STLC	50 ug/L	50 ug/L
B26-0.5	2	1	ND < 3	ND < 5
B27-0.5	2	1	ND < 3	ND < 5
B28-0.5	2	1	ND < 3	ND < 5
B29-0.5	2	1	ND < 3	ND < 5
B30-0.5	2	1	ND < 3	ND < 5
B31-0.5	2	1	ND < 3	ND < 5
B32-0.5	2	1	ND < 3	ND < 5
B33-0.5	2	1	ND < 3	ND < 5
B34-0.5	2	1	ND < 2.7	ND < 4.5
B35-0.5	2	1	27	ND < 5
B36-0.5	2	1	ND < 3	ND < 5
B37-0.5	2	1	190	ND < 4.5
B37-1.5	2	1	ND < 3	NA
B38-0.5	2	1	ND < 3	ND < 5
B39-0.5	2	1	ND < 3	ND < 5
B40-0.5	2	1	ND < 3	ND < 5
B41-0.5	2	1	NA	NA
B42-0.5	2	1	NA	NA
B43-0.5	3	1	35	ND < 4.5
B44-0.5	3	1	ND < 3	ND < 5
B45-0.5	3	1	22	5.0
B46-0.5	3	1	ND < 3	5.1
B47-0.5	3	1	ND < 3	ND < 5
B48-0.5	3	1	38	ND < 4.5
B49-0.5	3	1	20	6.0
B50-0.5	3	1	ND < 3	ND < 5
B51-0.5	3	1	23	ND < 5

TABLE 5
SUMMARY OF SOIL ANALYTICAL RESULTS
LEAD AND ARSENIC

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Sample Number	Project AOC	Stage 1 or 2	Total Lead	Arsenic
EPA Method			6010B	
Screening Level			80 mg/kg	12 mg/kg
Hazardous Waste Criteria		TTLIC	1,000 mg/kg	500 mg/kg
		10 x STLC	50 ug/L	50 ug/L
B52-0.5	3	1	29	ND < 5
B53-0.5	3	1	ND < 2.7	4.6
B54-0.5	3	1	150	ND < 4.5
B54-1.5	3	1	ND < 2.7	NA
B55-0.5	3	1	ND < 3	ND < 5
B56-0.5	3	1	ND < 2.7	ND < 4.5
B57-0.5	3	1	22	5.8
B58-0.5	3	1	32	14
B58-1.5	3	1	NA	18
B58-2.5	3	1	NA	9.1
B59-0.5	3	1	ND < 3	5.0
B60-0.5	3	1	ND < 3	ND < 5
B61-0.5	3	1	22	ND < 5
B62-0.5	3	1	ND < 2.7	ND < 4.5
B63-0.5	3	1	ND < 2.7	4.6
B64-0.5	3	1	ND < 3	ND < 5
B65-0.5	3	1	ND < 2.7	4.8
B66-0.5	3	1	ND < 3	5.0
B67-0.5	4	1	ND < 2.7	ND < 4.5
B68-0.5	4	1	45	ND < 4.5
B69-0.5	4	1	ND < 2.7	5.1
B70-0.5	4	1	ND < 3	ND < 5
B71-0.5	4	1	ND < 2.7	ND < 4.5
B72-0.5	4	1	ND < 3	ND < 5
B73-0.5	4	1	ND < 2.7	ND < 4.5
B74-0.5	5	1	ND < 2.7	ND < 4.5
B75-0.5	5	1	ND < 3	ND < 5

TABLE 5
SUMMARY OF SOIL ANALYTICAL RESULTS
LEAD AND ARSENIC

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Sample Number	Project AOC	Stage 1 or 2	Total Lead	Arsenic
EPA Method			6010B	
Screening Level			80 mg/kg	12 mg/kg
Hazardous Waste Criteria		TTLc	1,000 mg/kg	500 mg/kg
		10 x STLC	50 ug/L	50 ug/L
B76-0.5	5	1	ND < 3	ND < 5
B77-0.5	2	2	12	NA
B78-0.5	2	2	ND < 2.7	NA
B79-0.5	3	2	ND < 2.7	NA
B80-0.5	3	2	ND < 2.5	NA
B81-0.5	3	2	ND < 2.7	NA
B82-0.5	3	2	ND < 2.5	NA
B83-0.5	3	2	NA	ND < 4.5
B84-0.5	3	2	NA	7.2
B85-0.5	1	2	NA	5.1
95% UCL for data set			26.55	8.59

NOTES:

All values except STLC reported in milligrams per kilogram (mg/kg)
mg/L - milligrams per liter
mg/kg - milligrams per kilogram
ND - Not detected above the specified detection limit
NA - Not analyzed
EPA - US Environmental Protection Agency
TTLc - Total Threshold Limit Concentration
STLC - Soluble Threshold Limit Concentration

**TABLE 6
SUMMARY OF SOIL ANALYTICAL RESULTS
PCBS**

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Sample Number	Project AOC	Stage 1 or 2	Polychlorinated Biphenyls (Aroclors) (ug/kg)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	
EPA Method			EPA Method 8082							
Reporting Limit			10 ug/kg							
EPA RSL			6,700	200	170	230	230	230	240	240
B5-0.5	1	1	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
B13-0.5	2	1	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
B34-0.5	2	1	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
B41-0.5	2	1	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
B42-0.5	2	1	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
B57-0.5	3	1	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	20
B58-0.5	3	1	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
B70-0.5	4	1	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10
B74-0.5	5	1	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10	ND < 10

NOTES:

AOC - Area of Concern

ug/kg - micrograms per kilogram

ND - Compound not present above the given reporting limit

EPA RSL - US Environmental Protection Agency Regional Screening Level (residential soil), May 2016

TABLE 7
SUMMARY OF SOIL ANALYTICAL RESULTS
SOLUBLE LEAD AND ARSENIC

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Sample Number	Project AOC	Stage 1 or 2	Total and Soluble Waste Concentrations					Waste Characterization
			Lead	Lead STLC	Lead TCLP	Arsenic	Arsenic STLC	
		EPA Method	6010B	STLC	TCLP	6010B	STLC	
		Reporting Limit	various	0.2	0.1	various	5	
		Units	mg/kg	mg/L	mg/L	mg/kg	mg/L	
		Hazardous Waste Limit	1,000	5	5	500	5	
B7-0.5	1	1	88	6.7	--	--	--	California Hazardous
B10-0.5	1	1	--	--	--	65	ND	Non-Hazardous
B37-0.5	1	1	190	6.6	ND	--	--	California Hazardous
B54-0.5	1	1	150	--	ND	--	--	California Hazardous

TABLE 8
SUMMARY OF SOIL VAPOR ANALYTICAL RESULTS
VOCS

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

Sample Number	Volatile Organic Compounds (ug/m ³)				
	TCE	PCE	Benzene	Toluene	m,p-Xylene
EPA Method	TO-15				
Reporting Limit	5.5	6.9	3.3	3.8	8.8
Screening Level	480	230	360	520,000	10,000
SV1-3.5	16	ND	ND	ND	11
SV1-13.5	5.5	ND	5.5	ND	ND
SV2-3.5	620	ND	ND	ND	ND
SV2-13.5	56	14	10	4.6	10
SV2-13.5 Dup	ND	ND	4.7	ND	10

NOTES:

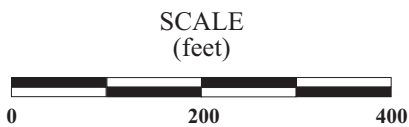
VOCS not included on this table were not detected above the laboratory reporting limit.

ug/m³ - micrograms per cubic meter

RSL - Regional screening level

Screening Level - Based on the May 2016 EPA residential carcinogenic RSL when available, or noncarcinogenic RSL, multiplied by the 0.001 attenuation factor.

Vapor concentrations that exceed the estimated RSL are bolded

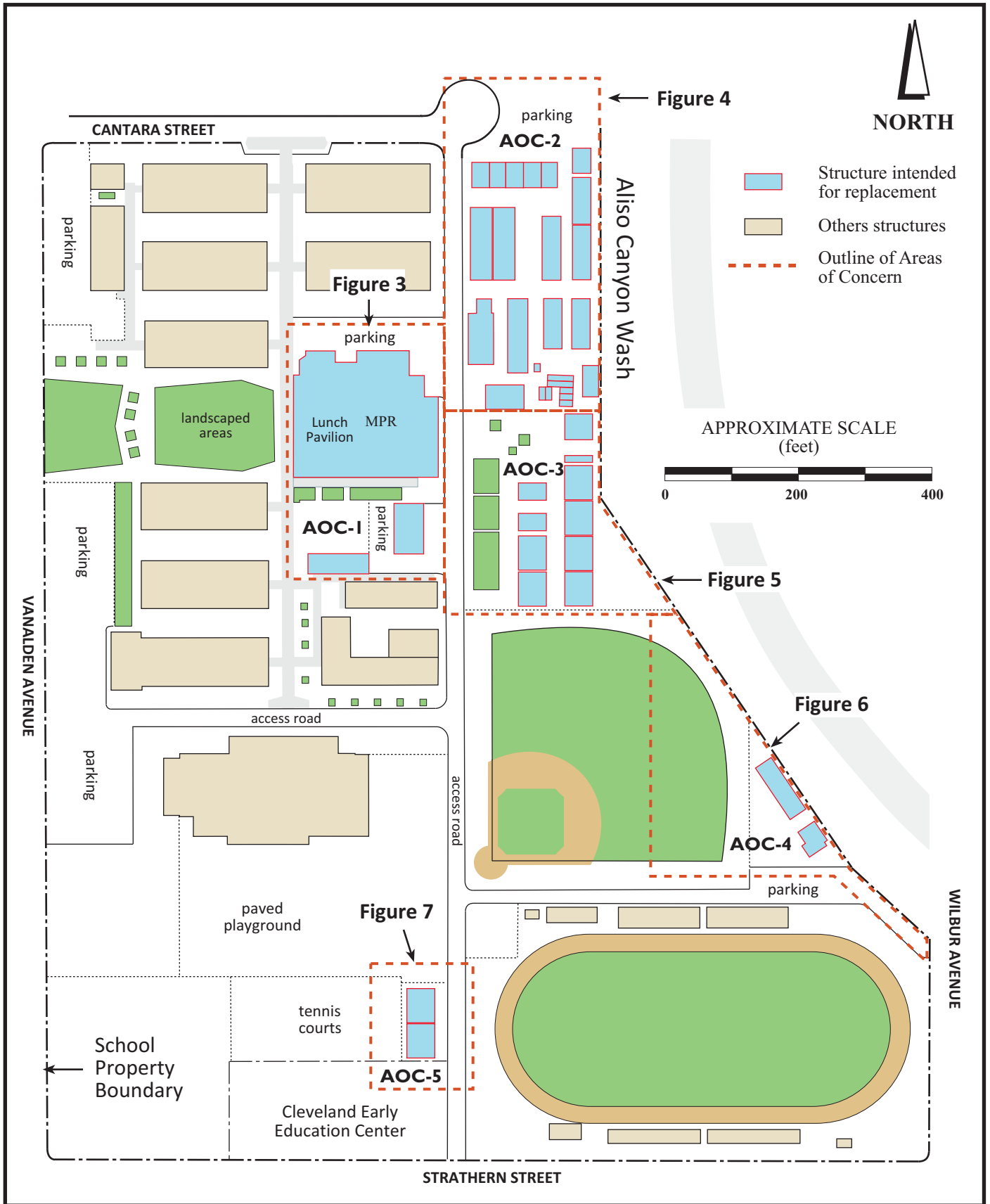


PINNACLE
ENVIRONMENTAL TECHNOLOGIES
#2 Santa Maria, Foothill Ranch, CA 92610
Tel: (949) 470-3691 • Fax: (949) 595-0459

**Grover Cleveland
Charter High School
8140 Vanalden Avenue
Reseda, California**

**Site
Location
Map**

**Figure
1**



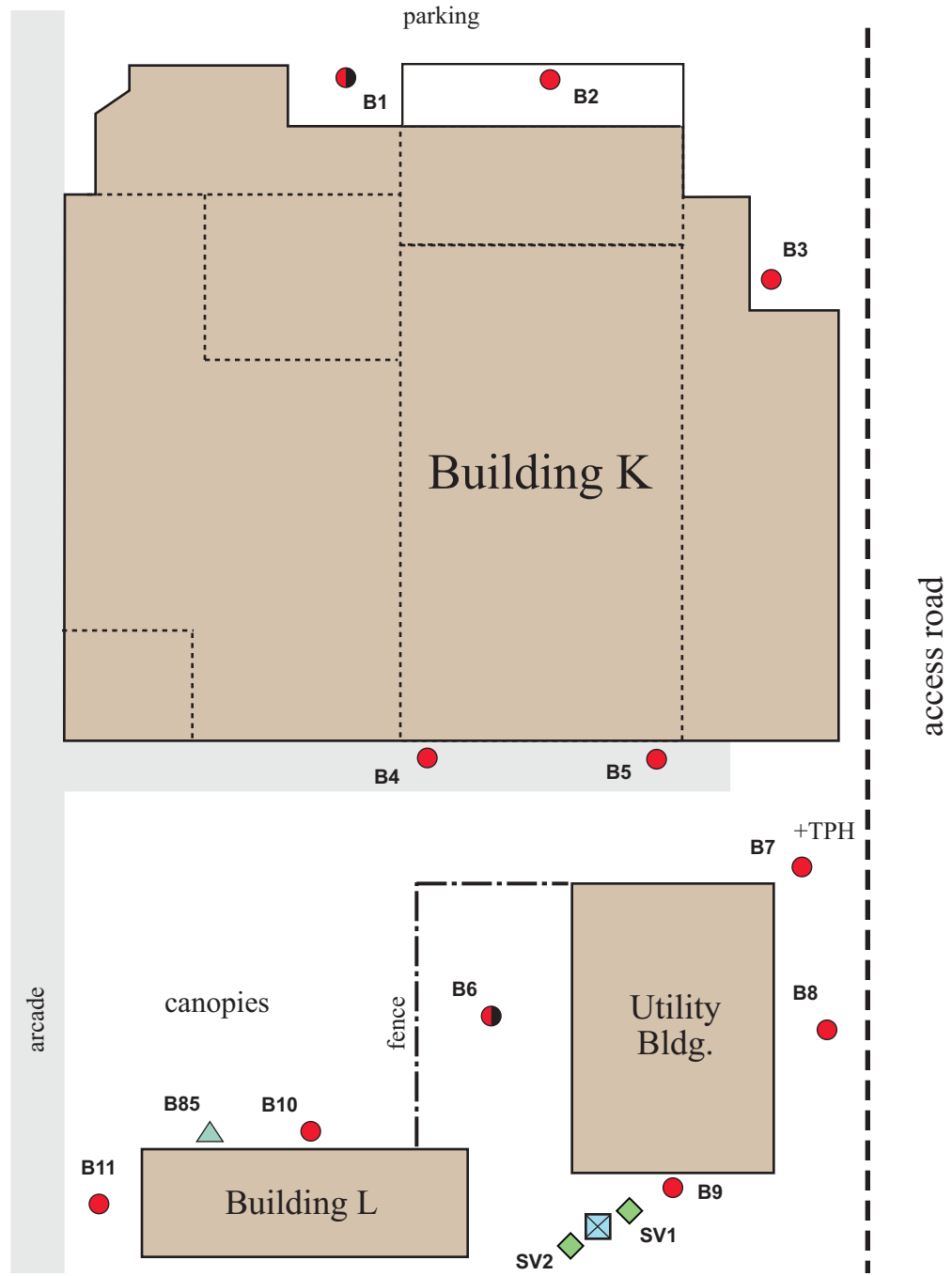

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**Grover Cleveland
Charter High School**
8140 Vanalden Avenue
Reseda, California

**AOC
Location
Index Map**





**Figure
2**



-  Interceptor location
-  Structures intended for removal

APPROXIMATE SCALE
(feet)



-  B85 Stepout soil sampling locations with boring number, arsenic analysis
-  B6 Initial soil sampling locations with boring number, arsenic analysis
-  B8 Initial soil sampling locations with boring number, lead, arsenic and OCP analysis
-  SV2 Soil and soil vapor sampling location with location number, TPH, metals and VOCs analysis for soil, VOCs analysis for soil vapor



PINNACLE

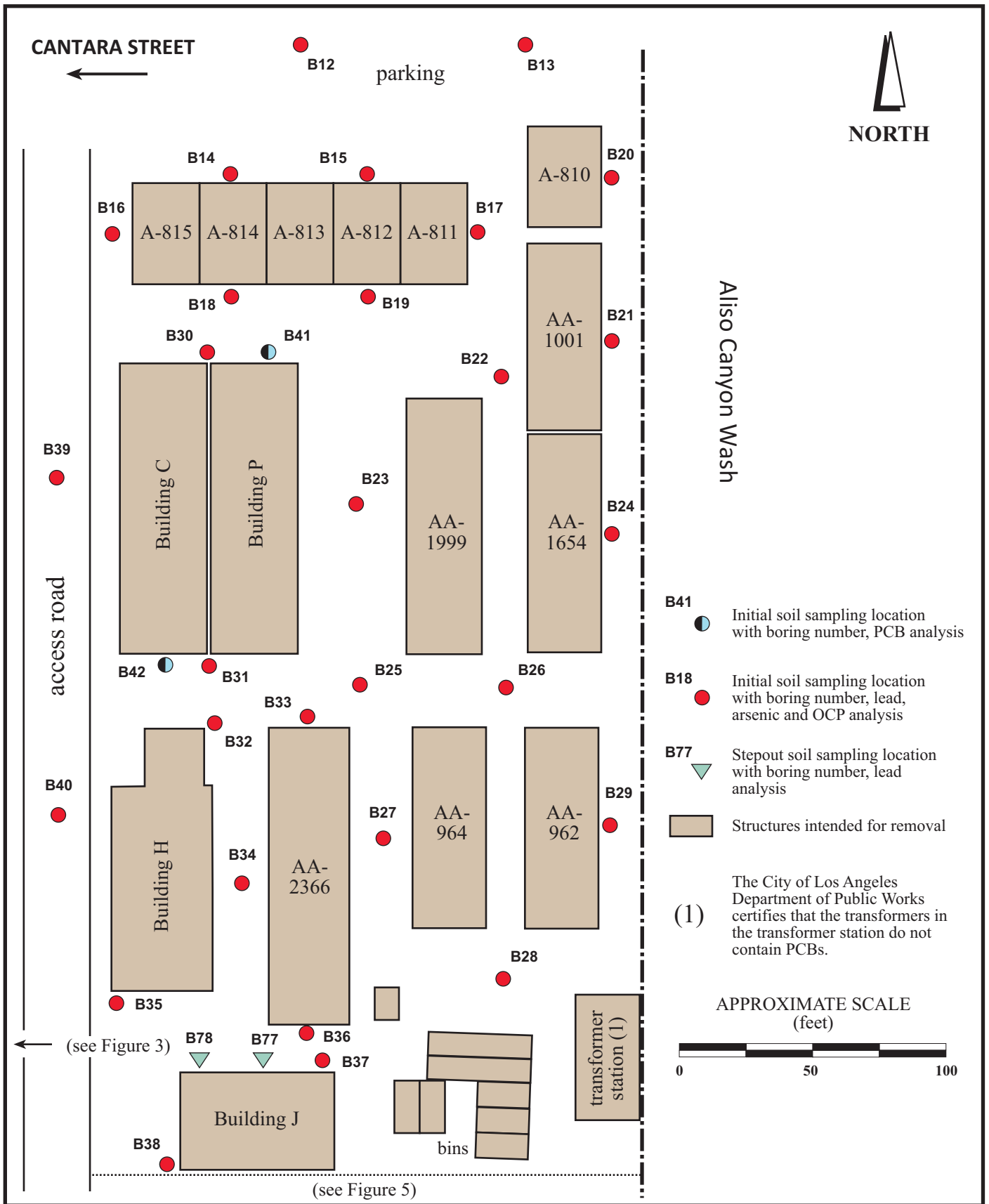
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**Grover Cleveland
Charter High School
8140 Vanalden Avenue
Reseda, California**

**AOC-1
Soil Sampling
Locations
(Bldgs K, L, Util)**

**Figure
3**

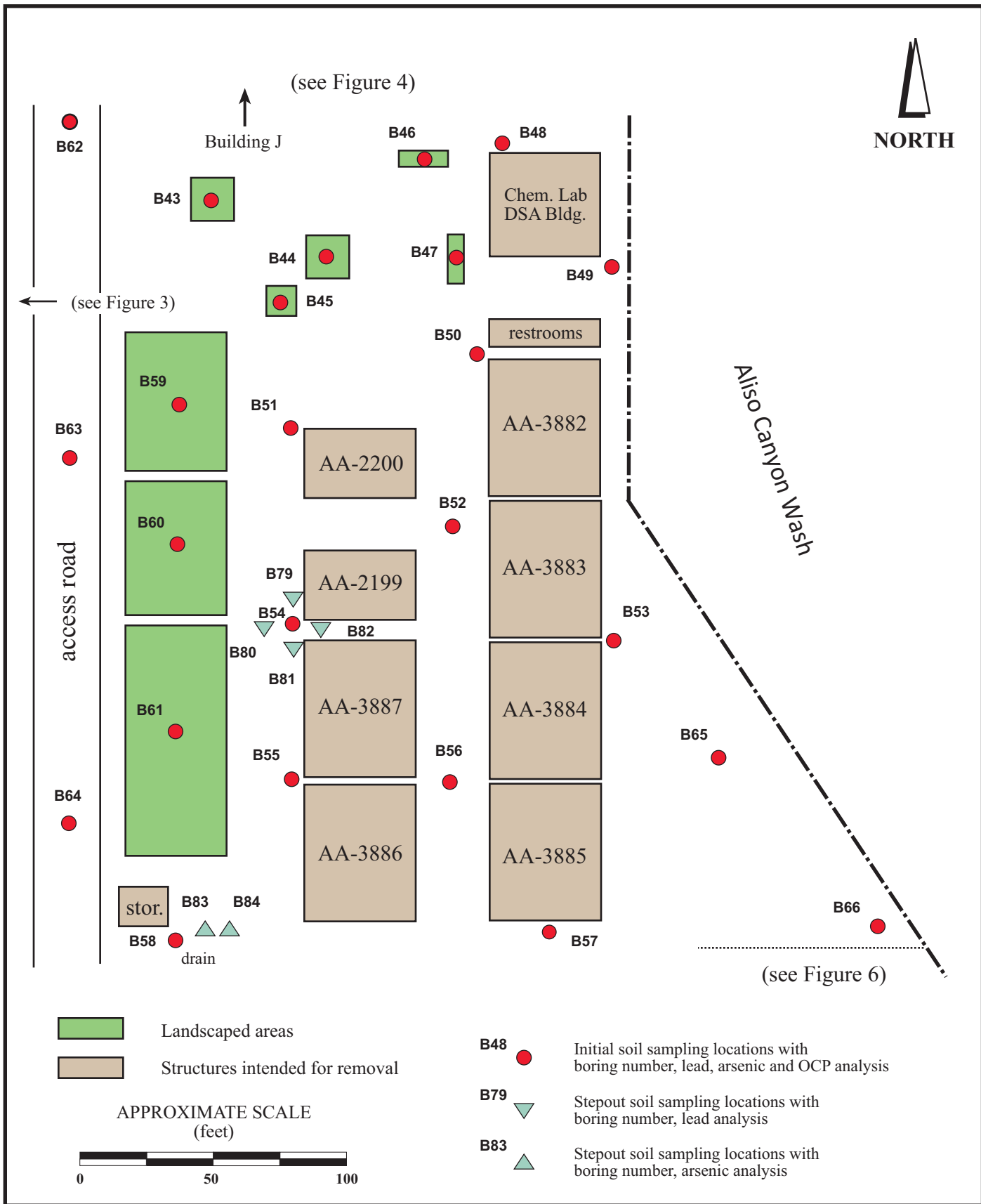


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**Grover Cleveland
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 8140 Vanalden Avenue
 Reseda, California**

**AOC-2 Soil
 Sampling Locations**
 (Bldgs C, P, H, J, AA-962, 964,
 810/5, 1001, 1964, 1999)

**Figure
 4**



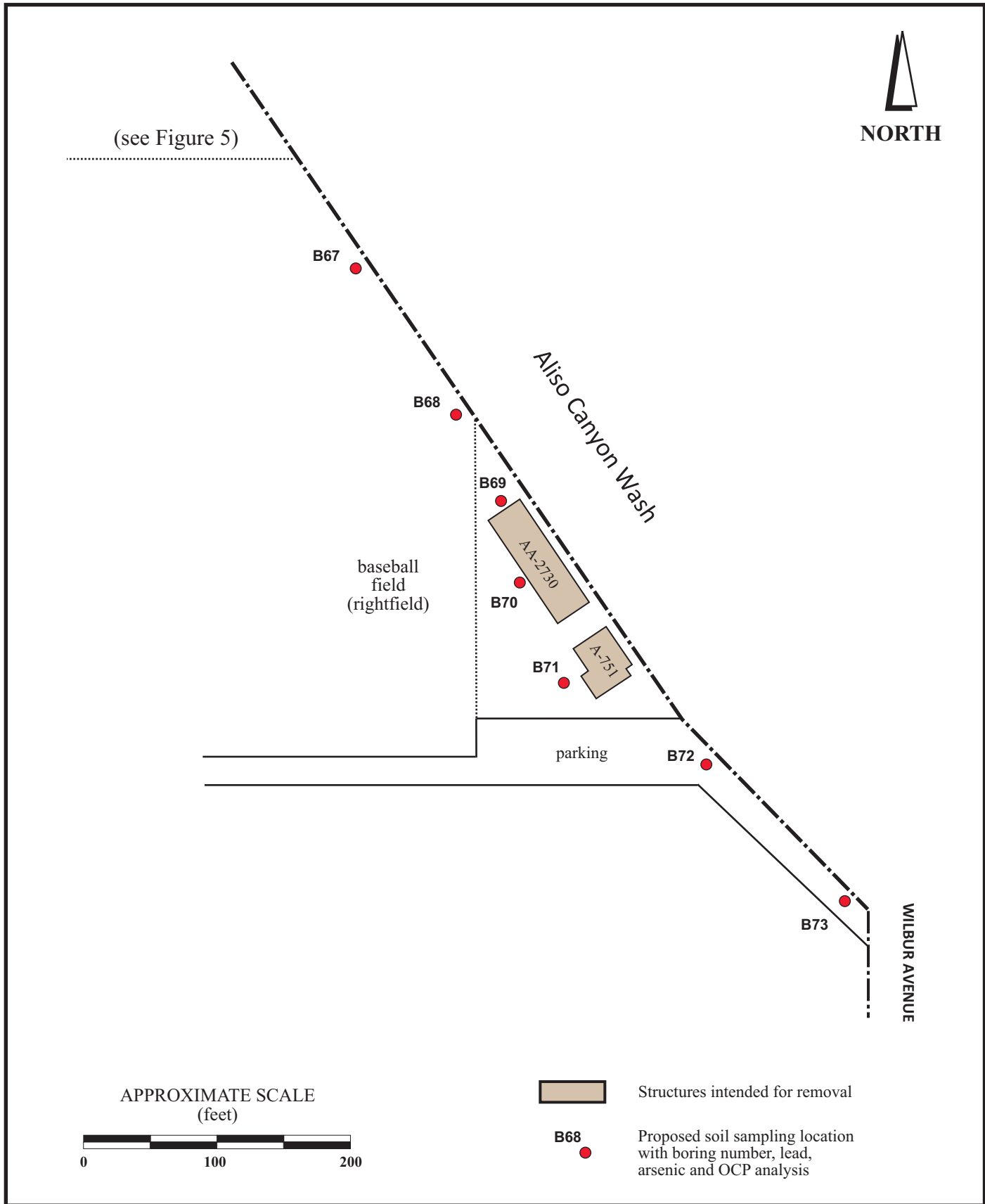

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**Grover Cleveland
Charter High School**
8140 Vanalden Avenue
Reseda, California

**AOC-3 Soil
Sampling Locations**
(Bldgs AA-2199, 2200,
3882/7, Chem Lab, Rest.)

**Figure
5**



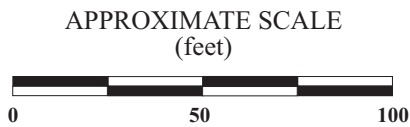
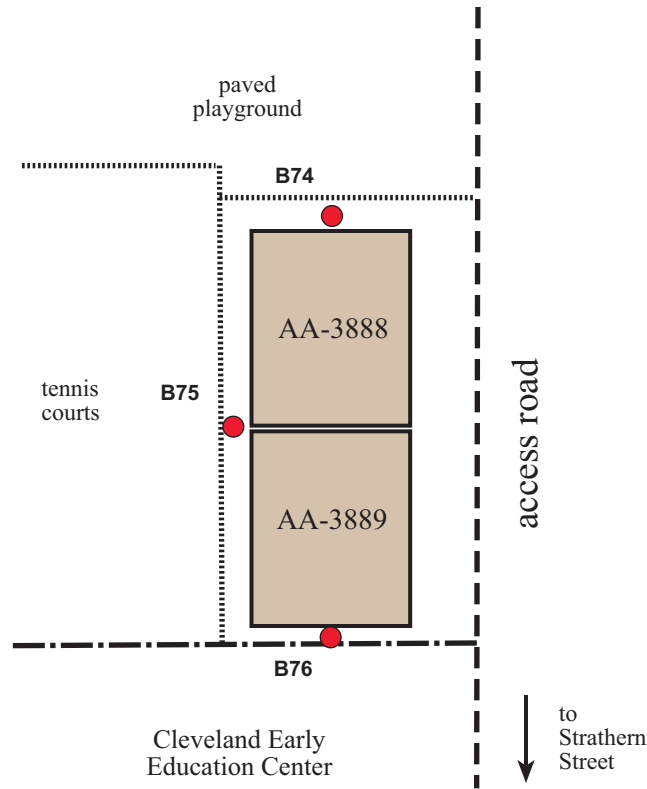

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**Grover Cleveland
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8140 Vanalden Avenue
Reseda, California**

**AOC-4
Soil Sampling
Locations**
(Bldgs AA-2730, A-751)

**Figure
6**



-  Structures intended for removal
-  B75 Proposed soil sampling location with boring number, lead, arsenic and OCP analysis



PINNACLE
ENVIRONMENTAL TECHNOLOGIES
#2 Santa Maria, Foothill Ranch, CA 92610
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**Grover Cleveland
Charter High School
8140 Vanalden Avenue
Reseda, California**

**AOC-5
Soil Sampling
Locations
(Bldgs AA-3888/9)**

**Figure
7**

APPENDIX A

**PINNACLE ENVIRONMENTAL TECHNOLOGIES
GENERAL FIELD PROCEDURES**

APPENDIX A GENERAL FIELD PROCEDURES

The following sections outline the general field procedures and protocols followed by Pinnacle Environmental Technologies (Pinnacle) in the completion of field tasks. Some, but not necessarily all, of these procedures were used during this investigation. Any deviation from the procedures outlined here due to unique or unforeseen circumstances will be noted in the body of the applicable report. The following tasks are detailed:

- Soil Sample Collection - Direct Push Rigs, Hollow Stem Auger Sampling
- Soil Classification and Logging
- Chain-of-Custody Protocol

Soil Sample Collection

Soil samples are collected to allow soil description/classification and for laboratory analysis. Samples may be collected using a variety of different techniques including: hollow stem auger rigs (drop hammer samplers), direct push rigs, composite grab samplers, or excavation samples. The sampling technique utilized will be selected based on the particular phase of work and sample requirements. All soil samples collected during drilling operations are also monitored for volatile organic vapors. This is accomplished using a photo-ionization detector (PID) monitor the soil either at the ends of sample tubes or after it has been placed in sealed seam-sealing plastic bags. The maximum PID and LEL readings are recorded on the boring log. Field headspace readings are also used to determine if a soil sample will be analyzed in the laboratory.

Direct-Push Drill Rigs

Samples collected using direct-push techniques are collected in either brass/stainless steel tubes or acetate sleeves. The sampling device is advanced using hydraulic pressure and a hammer into undisturbed soil ahead of the sampler. The sleeves or tubes are removed from the sampling device after retrieving the sampler from the boring. If acetate sleeves are used, the sleeve is examined and the sample portion selected for laboratory analysis is cut off from the main sleeve. A 4 to 6-inch portion is typically removed for laboratory analysis. After the sample tubes are retrieved from the sampler, each tube is sealed using Teflon tape and plastic end caps. Each sample tube is labeled with the sample identification, date and time of sampling, and sample site identification. The sample is then placed in a cooler chilled with either blue ice or “wet” ice for transport to the laboratory.

Hollow Stem Auger Sampling

Hollow stem auger samples are typically collected in split tube samples, “California” samplers, or Shelby tubes. When a sample for laboratory analysis or standard penetration test (SPT) data is required, the sampler is driven into undisturbed soil with a down hole or standard 140 pound geotechnical hammer. The sampler is lined with brass/stainless steel (if required for metal analysis) tubes for handling the undisturbed samples at the surface. Tubes are not used for SPTs. After bringing the sampler to the surface and removing the tubes with sample, they are handled as described earlier in this section. Samples for description are released from the sampler shoe and placed into a Ziploc bag for headspace analysis and visual inspection. Disturbed samples for geotechnical analysis are placed in Ziploc bags.

All augers, rods and/or samplers used to collect soil at the Site were steam-cleaned between locations.

Soil Classification and Logging

Soils are classified in the field in conformance with the Unified Soil Classification System (USCS-ASTM D2487).

A boring log is maintained for soil borings and well installations. Each log records the sample identification, collection location, depth and interval; number of blows required for sample collection (drop hammer samplers only); USCS soil type, color, field density estimation, field moisture content estimation, physical characteristics (grain size, sorting, roundness, odors, and other distinguishing characteristics); and, time of sample collection.

If a boring is not converting to a well, it is backfilled with either hydrated bentonite chips, Volclay grout, bentonite cement, Portland cement, or a combination of the above. Borings are backfilled in accordance with any prevailing local standards and regulations.

Chain-of-Custody Protocol

All soil samples that are collected are documented using chain-of-custody (COC) procedures. Each sample is identified and entered onto the COC record along with the date and time of collection and the type and number of sample containers. COC documents also typically used to document which analyses are completed on each sample. The COC follows the samples from the field to the laboratory and is a legal document recording who had possession of the samples at all times.

The soil samples were delivered to the laboratory on the day of sample collection. They were immediately put into a refrigerator after acceptance by the laboratory.

APPENDIX B

**LABORATORY REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION
FOR STAGE 1 SOIL SAMPLES**



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

30 November 2016

Keith Thompson
Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch, CA 92610
RE: Grover Cleveland High School

Enclosed are the results of analyses for samples received by the laboratory on 11/23/16 08:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh
Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Pinnacle Environmental Technologies
 2 Santa Maria
 Foothill Ranch CA, 92610

Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 11/30/16 16:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1-0.5	T163015-01	Soil	11/22/16 15:00	11/23/16 08:07
B2-0.5	T163015-04	Soil	11/21/16 14:00	11/23/16 08:07
B3-0.5	T163015-07	Soil	11/21/16 14:30	11/23/16 08:07
B4-0.5	T163015-10	Soil	11/21/16 10:10	11/23/16 08:07
B5-0.5	T163015-13	Soil	11/21/16 10:45	11/23/16 08:07
B6-0.5	T163015-16	Soil	11/22/16 15:05	11/23/16 08:07
B7-0.5	T163015-19	Soil	11/21/16 11:25	11/23/16 08:07
B8-0.5	T163015-22	Soil	11/22/16 15:10	11/23/16 08:07
B9-0.5	T163015-25	Soil	11/22/16 15:35	11/23/16 08:07
B10-0.5	T163015-28	Soil	11/22/16 16:10	11/23/16 08:07
B11-0.5	T163015-31	Soil	11/22/16 15:40	11/23/16 08:07
B12-0.5	T163015-34	Soil	11/21/16 08:15	11/23/16 08:07
B13-0.5	T163015-37	Soil	11/21/16 08:50	11/23/16 08:07
B14-0.5	T163015-40	Soil	11/21/16 09:25	11/23/16 08:07
B15-0.5	T163015-43	Soil	11/21/16 10:05	11/23/16 08:07
B16-0.5	T163015-46	Soil	11/22/16 14:05	11/23/16 08:07
B17-0.5	T163015-49	Soil	11/21/16 09:55	11/23/16 08:07
B18-0.5	T163015-52	Soil	11/21/16 08:40	11/23/16 08:07
B19-0.5	T163015-55	Soil	11/21/16 09:15	11/23/16 08:07
B20-0.5	T163015-58	Soil	11/21/16 13:10	11/23/16 08:07
B21-0.5	T163015-61	Soil	11/21/16 13:40	11/23/16 08:07
B22-0.5	T163015-64	Soil	11/21/16 14:50	11/23/16 08:07
B23-0.5	T163015-67	Soil	11/21/16 10:30	11/23/16 08:07
B24-0.5	T163015-70	Soil	11/21/16 14:10	11/23/16 08:07
B25-0.5	T163015-73	Soil	11/21/16 11:00	11/23/16 08:07
B26-0.5	T163015-76	Soil	11/21/16 11:25	11/23/16 08:07

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B27-0.5	T163015-79	Soil	11/22/16 07:45	11/23/16 08:07

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

DETECTIONS SUMMARY

Sample ID: B1-0.5 **Laboratory ID:** T163015-01

No Results Detected

Sample ID: B2-0.5 **Laboratory ID:** T163015-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	5.1	5.0		mg/kg	EPA 6010B	
Lead	33	3.0		mg/kg	EPA 6010B	

Sample ID: B3-0.5 **Laboratory ID:** T163015-07

No Results Detected

Sample ID: B4-0.5 **Laboratory ID:** T163015-10

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
alpha-Chlordane	5.6	5.0		ug/kg	EPA 8081A	

Sample ID: B5-0.5 **Laboratory ID:** T163015-13

No Results Detected

Sample ID: B6-0.5 **Laboratory ID:** T163015-16

No Results Detected

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

Sample ID: B7-0.5

Laboratory ID: T163015-19

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	13	10	mg/kg	EPA 8015C	
C29-C40 (MORO)	15	10	mg/kg	EPA 8015C	
Lead	88	2.7	mg/kg	EPA 6010B	
Dieldrin	8.3	5.0	ug/kg	EPA 8081A	

Sample ID: B8-0.5

Laboratory ID: T163015-22

No Results Detected

Sample ID: B9-0.5

Laboratory ID: T163015-25

No Results Detected

Sample ID: B10-0.5

Laboratory ID: T163015-28

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	65	4.5	mg/kg	EPA 6010B	

Sample ID: B11-0.5

Laboratory ID: T163015-31

No Results Detected

Sample ID: B12-0.5

Laboratory ID: T163015-34

No Results Detected

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Lake Forest, California 92630
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949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

Sample ID: B13-0.5

Laboratory ID: T163015-37

No Results Detected

Sample ID: B14-0.5

Laboratory ID: T163015-40

No Results Detected

Sample ID: B15-0.5

Laboratory ID: T163015-43

No Results Detected

Sample ID: B16-0.5

Laboratory ID: T163015-46

No Results Detected

Sample ID: B17-0.5

Laboratory ID: T163015-49

No Results Detected

Sample ID: B18-0.5

Laboratory ID: T163015-52

No Results Detected

Sample ID: B19-0.5

Laboratory ID: T163015-55

No Results Detected

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

Sample ID: B20-0.5

Laboratory ID: T163015-58

No Results Detected

Sample ID: B21-0.5

Laboratory ID: T163015-61

No Results Detected

Sample ID: B22-0.5

Laboratory ID: T163015-64

No Results Detected

Sample ID: B23-0.5

Laboratory ID: T163015-67

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	44	3.0		mg/kg	EPA 6010B	

Sample ID: B24-0.5

Laboratory ID: T163015-70

No Results Detected

Sample ID: B25-0.5

Laboratory ID: T163015-73

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	5.8	5.0		mg/kg	EPA 6010B	

Sample ID: B26-0.5

Laboratory ID: T163015-76

No Results Detected

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

Sample ID: B27-0.5

Laboratory ID: T163015-79

No Results Detected

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:43
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B1-0.5
T163015-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B2-0.5
T163015-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	5.1	5.0	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	33	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	49.8 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	56.8 %	35-140	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B3-0.5
T163015-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		49.6 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		50.4 %		35-140	"	"	"	"	

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B4-0.5
T163015-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	5.6	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		49.4 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		55.6 %		35-140	"	"	"	"	

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
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Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

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11/30/16 16:43

B5-0.5
T163015-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		48.9 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		52.0 %		35-140	"	"	"	"	

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Rose Fasheh, Project Manager



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B5-0.5
T163015-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6112816	11/28/16	11/30/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		71.6 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		79.1 %	35-140		"	"	"	"	

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Rose Fasheh, Project Manager



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B6-0.5
T163015-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B7-0.5
T163015-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	6112238	11/22/16	11/23/16	EPA 8015C	
C13-C28 (DRO)	13	10	"	"	"	"	"	"	
C29-C40 (MORO)	15	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		83.7 %	65-135		"	"	"	"	

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	88	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	8.3	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		48.0 %	35-140		"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		45.5 %	35-140		"	"	"	"	

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Rose Fasheh, Project Manager



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B7-0.5
T163015-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B8-0.5
T163015-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		50.0 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		45.8 %		35-140	"	"	"	"	

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B9-0.5
T163015-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		47.5 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		45.6 %		35-140	"	"	"	"	

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:43
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B10-0.5
T163015-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	65	4.5	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		48.2 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		47.8 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B11-0.5
T163015-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		48.7 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		51.6 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B12-0.5
T163015-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	3.8	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	2.3	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		49.9 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		59.9 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:43
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B13-0.5
T163015-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		49.5 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		48.6 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:43
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B13-0.5
T163015-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6112816	11/28/16	11/30/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		70.6 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		79.9 %	35-140		"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B14-0.5
T163015-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		47.2 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		48.9 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B15-0.5
T163015-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	3.8	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	2.3	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		50.5 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		54.7 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B16-0.5
T163015-46 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

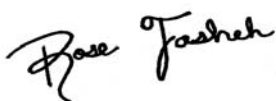
Arsenic	ND	5.0	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		51.3 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		49.9 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B17-0.5
T163015-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		51.5 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		48.0 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:43
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B18-0.5
T163015-52 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		51.6 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		51.2 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B19-0.5
T163015-55 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		52.8 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		59.4 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:43
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B20-0.5
T163015-58 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112314	11/23/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		53.4 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		61.0 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B21-0.5
T163015-61 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		53.7 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		60.5 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:43
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B22-0.5
T163015-64 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112315	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		53.8 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		61.9 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B23-0.5
T163015-67 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	44	3.0	"	"	"	"	"	"	"

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112313	11/23/16	11/30/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	"
beta-BHC	ND	5.0	"	"	"	"	"	"	"
delta-BHC	ND	5.0	"	"	"	"	"	"	"
Heptachlor	ND	5.0	"	"	"	"	"	"	"
Aldrin	ND	5.0	"	"	"	"	"	"	"
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	"
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	"
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	"
Endosulfan I	ND	5.0	"	"	"	"	"	"	"
4,4'-DDE	ND	5.0	"	"	"	"	"	"	"
Dieldrin	ND	5.0	"	"	"	"	"	"	"
Endrin	ND	5.0	"	"	"	"	"	"	"
4,4'-DDD	ND	5.0	"	"	"	"	"	"	"
Endosulfan II	ND	5.0	"	"	"	"	"	"	"
4,4'-DDT	ND	5.0	"	"	"	"	"	"	"
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	"
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	"
Methoxychlor	ND	10	"	"	"	"	"	"	"
Endrin ketone	ND	5.0	"	"	"	"	"	"	"
Toxaphene	ND	200	"	"	"	"	"	"	"

Surrogate: Tetrachloro-meta-xylene

105 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

93.3 % 35-140

" " " "

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B24-0.5
T163015-70 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112313	11/23/16	11/30/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		91.8 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		78.5 %	35-140		"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B25-0.5
T163015-73 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	5.8	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112313	11/23/16	11/30/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

112 % 35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

94.3 % 35-140

"

"

"

"

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B26-0.5
T163015-76 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112313	11/23/16	11/30/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	109 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	96.4 %	35-140	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

B27-0.5
T163015-79 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112313	11/23/16	11/30/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	108 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	91.5 %	35-140	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:43
--	--	-----------------------------

Extractable Petroleum Hydrocarbons by 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112238 - EPA 3550B GC

Blank (6112238-BLK1)

Prepared: 11/22/16 Analyzed: 11/23/16

C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							

<i>Surrogate: p-Terphenyl</i>	86.8		"	101		86.0	65-135			
-------------------------------	------	--	---	-----	--	------	--------	--	--	--

LCS (6112238-BS1)

Prepared: 11/22/16 Analyzed: 11/23/16

C13-C28 (DRO)	540	10	mg/kg	505		107	75-125			
<i>Surrogate: p-Terphenyl</i>	89.8		"	101		88.9	65-135			

LCS Dup (6112238-BSD1)

Prepared: 11/22/16 Analyzed: 11/23/16

C13-C28 (DRO)	480	10	mg/kg	495		97.9	75-125	11.0	20	
<i>Surrogate: p-Terphenyl</i>	79.1		"	99.0		79.8	65-135			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School

Project Number: [none]

Project Manager: Keith Thompson

Reported:

11/30/16 16:43

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6112314 - EPA 3051

Blank (6112314-BLK1)

Prepared: 11/23/16 Analyzed: 11/30/16

Arsenic	ND	5.0	mg/kg							
Lead	ND	3.0	"							

LCS (6112314-BS1)

Prepared: 11/23/16 Analyzed: 11/30/16

Arsenic	98.0	5.0	mg/kg	100		98.0	75-125			
Lead	101	3.0	"	100		101	75-125			

Matrix Spike (6112314-MS1)

Source: T163015-01

Prepared: 11/23/16 Analyzed: 11/30/16

Arsenic	91.2	5.0	mg/kg	100	0.491	90.7	75-125			
Lead	92.0	3.0	"	100	7.42	84.6	75-125			

Matrix Spike Dup (6112314-MSD1)

Source: T163015-01

Prepared: 11/23/16 Analyzed: 11/30/16

Arsenic	79.0	4.5	mg/kg	90.9	0.491	86.4	75-125	14.3	20	
Lead	81.8	2.7	"	90.9	7.42	81.8	75-125	11.8	20	

Batch 6112818 - EPA 3051

Blank (6112818-BLK1)

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	ND	5.0	mg/kg							
Lead	ND	3.0	"							

LCS (6112818-BS1)

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	115	5.0	mg/kg	100		115	75-125			
Lead	117	3.0	"	100		117	75-125			

Matrix Spike (6112818-MS1)

Source: T163015-61

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	84.8	5.0	mg/kg	100	1.95	82.9	75-125			
Lead	88.2	3.0	"	100	ND	88.2	75-125			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:43
--	--	-----------------------------

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112818 - EPA 3051

Matrix Spike Dup (6112818-MSD1)	Source: T163015-61			Prepared: 11/28/16 Analyzed: 11/30/16						
Arsenic	84.8	5.0	mg/kg	100	1.95	82.9	75-125	0.0343	20	
Lead	84.9	3.0	"	100	ND	84.9	75-125	3.73	20	

SunStar Laboratories, Inc.

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Pinnacle Environmental Technologies
 2 Santa Maria
 Foothill Ranch CA, 92610

Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 11/30/16 16:43

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112313 - EPA 3550 ECD/GCMS

Blank (6112313-BLK1)

Prepared: 11/23/16 Analyzed: 11/30/16

alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4'-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4'-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	10.1		"	10.0		101	35-140			
Surrogate: Decachlorobiphenyl	9.65		"	10.0		96.5	35-140			

LCS (6112313-BS1)

Prepared: 11/23/16 Analyzed: 11/30/16

gamma-BHC (Lindane)	26.8	5.0	ug/kg	40.0		66.9	40-120			
Heptachlor	29.0	5.0	"	40.0		72.4	40-120			
Aldrin	31.1	5.0	"	40.0		77.9	40-120			
Dieldrin	31.4	5.0	"	40.0		78.5	40-120			
Endrin	30.5	5.0	"	40.0		76.3	40-120			
4,4'-DDT	20.6	5.0	"	40.0		51.4	33-147			
Surrogate: Tetrachloro-meta-xylene	8.31		"	10.0		83.1	35-140			
Surrogate: Decachlorobiphenyl	8.95		"	10.0		89.5	35-140			

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies
 2 Santa Maria
 Foothill Ranch CA, 92610

Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 11/30/16 16:43

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112313 - EPA 3550 ECD/GCMS

LCS Dup (6112313-BSD1)

Prepared: 11/23/16 Analyzed: 11/30/16

gamma-BHC (Lindane)	28.5	5.0	ug/kg	40.0		71.2	40-120	6.24	30	
Heptachlor	32.4	5.0	"	40.0		81.1	40-120	11.3	30	
Aldrin	34.9	5.0	"	40.0		87.3	40-120	11.5	30	
Dieldrin	33.5	5.0	"	40.0		83.7	40-120	6.47	30	
Endrin	33.4	5.0	"	40.0		83.6	40-120	9.07	30	
4,4'-DDT	33.6	5.0	"	40.0		83.9	33-147	48.0	30	QR-02
Surrogate: Tetrachloro-meta-xylene	10.4		"	10.0		104	35-140			
Surrogate: Decachlorobiphenyl	10.2		"	10.0		102	35-140			

Batch 6112315 - EPA 3550 ECD/GCMS

Blank (6112315-BLK1)

Prepared: 11/23/16 Analyzed: 11/29/16

alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4'-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4'-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	4.96		"	10.0		49.6	35-140			
Surrogate: Decachlorobiphenyl	5.87		"	10.0		58.7	35-140			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:43
--	--	-----------------------------

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112315 - EPA 3550 ECD/GCMS

LCS (6112315-BS1)

Prepared: 11/23/16 Analyzed: 11/29/16

gamma-BHC (Lindane)	24.0	5.0	ug/kg	40.4		59.3	40-120			
Heptachlor	26.9	5.0	"	40.4		66.5	40-120			
Aldrin	19.8	5.0	"	40.4		49.0	40-120			
Dieldrin	23.3	5.0	"	40.4		57.6	40-120			
Endrin	27.0	5.0	"	40.4		66.8	40-120			
4,4'-DDT	21.8	5.0	"	40.4		54.0	33-147			
Surrogate: Tetrachloro-meta-xylene	4.99		"	10.1		49.4	35-140			
Surrogate: Decachlorobiphenyl	5.72		"	10.1		56.7	35-140			

LCS Dup (6112315-BS1)

Prepared: 11/23/16 Analyzed: 11/29/16

gamma-BHC (Lindane)	27.2	5.0	ug/kg	40.0		68.0	40-120	13.6	30	
Heptachlor	30.3	5.0	"	40.0		75.7	40-120	13.0	30	
Aldrin	23.2	5.0	"	40.0		58.0	40-120	16.9	30	
Dieldrin	26.2	5.0	"	40.0		65.6	40-120	12.9	30	
Endrin	31.0	5.0	"	40.0		77.4	40-120	14.8	30	
4,4'-DDT	25.4	5.0	"	40.0		63.5	33-147	16.0	30	
Surrogate: Tetrachloro-meta-xylene	6.05		"	10.0		60.5	35-140			
Surrogate: Decachlorobiphenyl	6.42		"	10.0		64.2	35-140			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:43
--	--	-----------------------------

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112816 - EPA 3550 ECD/GCMS

Blank (6112816-BLK1)

Prepared: 11/28/16 Analyzed: 11/30/16

PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	6.68		"	10.0		66.8	35-140			
Surrogate: Decachlorobiphenyl	8.32		"	10.0		83.2	35-140			

LCS (6112816-BS1)

Prepared: 11/28/16 Analyzed: 11/30/16

PCB-1016	97.4	10	ug/kg	100		97.4	40-130			
PCB-1260	68.4	10	"	100		68.4	40-130			
Surrogate: Tetrachloro-meta-xylene	6.98		"	10.0		69.8	35-140			
Surrogate: Decachlorobiphenyl	7.85		"	10.0		78.5	35-140			

LCS Dup (6112816-BSD1)

Prepared: 11/28/16 Analyzed: 11/30/16

PCB-1016	97.7	10	ug/kg	100		97.7	40-130	0.248	30	
PCB-1260	78.4	10	"	100		78.4	40-130	13.6	30	
Surrogate: Tetrachloro-meta-xylene	6.76		"	10.0		67.6	35-140			
Surrogate: Decachlorobiphenyl	7.99		"	10.0		79.9	35-140			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:43

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

3-DAY

CHAIN OF CUSTODY RECORD



Site: GROVER CLEVELAND HIGH SCHOOL Project Manager: MALVEY THOMPSON
 Address: 8140 VAN ALDEN AVE. Sampled By: MALVEY THOMPSON
RESEDA, CA Laboratory: Sunstar

NORM (RUSH)
 EDF - YES (NO)
 Page 1 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J-Jar T = Tube V = VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	Lead SVOC EPA 8270C COPD	Pesticides PCB's EPA 8081/8082	Title 22 Metals	AR-5010 P4-Dioxane EPA 8260SM COPD
B1-0.5	01	1500	11/22	SOIL	J									X
B1-1.5	02	1505	11/22											
B1-2.5	03	1510	11/22											
B2-0.5	04	1400	11/21								X	X	occupy	X
B2-1.5	05	1410	11/21								X	X	occupy	X
B2-2.5	06	1415	11/21								X	X	occupy	X
B3-0.5	07	1430	11/21								X	X	occupy	X
B3-1.5	08	1435	11/21								X	X	occupy	X
B3-2.5	09	1440	11/21								X	X	occupy	X
B4-0.5	10	1010	11/21								X	X	occupy	X
B4-1.5	11	1020	11/21								X	X	occupy	X
B4-2.5	12	1030	11/21								X	X	occupy	X
B5-0.5	13	1045	11/21								X	X	occupy	X
B5-1.5	14	1055	11/21								X	X	occupy	X
B5-2.5	15	1105	11/21								X	X	occupy	X
B6-0.5	16	1505	11/22											
B6-1.5	17	1515	11/22											
B6-2.5	18	1525	11/22											
B7-0.5	19	1125	11/24				X				X	X	occupy	X
B7-1.5	20	1135	11/24								X	X	occupy	X

Relinquished By: [Signature] Date/Time: 11/23/16
 Received By: [Signature] Date/Time: 11/23/16 08:07
 Relinquished By: [Signature] Date/Time: 11/23/16
 Received By: [Signature] Date/Time: 11/23/16 08:07

CHAIN OF CUSTODY RECORD

3-DAY



Site: CLEVELAND HIGH SCHOOL

Project Manager: MALVEY THOMPSON

NORM RUSH

Address: 8140 VAWALDEN AVE.

Sampled By: MALVEY THOMPSON

EDF - YES NO

RESEDA CA

Laboratory: SW STAR

Page 2 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SWOC EPA 8270C Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	EPA 8260SIM ARSENIC
B7-2.5	21	1145	11/24	Soil	J									
B8-0.5	22	1510	11/22							X	X	X	X	X
B8-1.5	23	1515	11/22											
B8-2.5	24	1525	11/22											
B9-0.5	25	1535	11/22							X	X	X	X	X
B9-1.5	26	1540	11/22											
B9-2.5	27	1550	11/22											
B10-0.5	28	1410	11/22							X	X	X	X	X
B10-1.5	29	1420	11/22											
B10-2.5	30	1630	11/22											
B11-0.5	31	1540	11/22							X	X	X	X	X
B11-1.5	32	1550	11/22											
B11-2.5	33	1600	11/22											
B12-0.5	34	815	11/24								X	X	X	X
B12-1.5	35	825	11/24											
B12-2.5	36	835	11/24											
B13-0.5	37	850	11/24								X	X	X	X
B13-1.5	38	900	11/24											
B13-2.5	39	910	11/24											
B14-0.5	40	925	11/24								X	X	X	X
Relinquished By:			Date/Time:	11/23/16										
Relinquished By:			Date/Time:											

NOTES:
Date/Time: 11/23/16 8:07
18.6

CHAIN OF CUSTODY RECORD

3-DAY



Site: GROVER CLEVE LAND HIGH SCHOOL Project Manager: MALVEY THOMPSON
 Address: 8140 VANALDEN AVE. Sampled By: MALVEY THOMPSON
RESEDA CA Laboratory: SUNSTAR

NORM/RUSH
 EDF - YES / NO
 Page 3 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270 Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	1,4-Dioxane EPA 8260SIM ARSENIC
B14-1.5	41	940	11/21	SOIL	J									
B14-2.5	42	950	11/21											
B15-0.5	43	1005	11/21						X		X	X DEP only	X	
B15-1.5	44	1015	11/21											
B15-2.5	45	1025	11/21						X		X	X DEP only	X	
B16-0.5	46	1405	11/22											
B16-1.5	47	1415	11/22											
B16-2.5	48	1425	11/22						X		X	X DEP only	X	
B17-0.5	49	955	11/21											
B17-1.5	50	1005	11/21											
B17-2.5	51	1015	11/21						X		X	X DEP only	X	
B18-0.5	52	840	11/21											
B18-1.5	53	850	11/21											
B18-2.5	54	900	11/21						X		X	X DEP only	X	
B19-0.5	55	915	11/21											
B19-1.5	56	925	11/21						X		X	X DEP only	X	
B19-2.5	57	940	11/21											
B20-0.5	58	1310	11/21											
B20-1.5	59	1320	11/21						X		X	X DEP only	X	
B20-2.5	60	1330	11/21											

Relinquished By: [Signature] Date/Time: 11/23
 Received By: [Signature] Date/Time: 11/23/16 08:07
 Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

NOTES: 13/6

CHAIN OF CUSTODY RECORD

3-DAY



Site: ORNER CLEVELAND HIGH SCHOOL

Project Manager: MALVEY THOMPSON

NORM/RUSH

Address: 8140 VANAZDEN AVE.

Sampled By: MALVEY THOMPSON

EDF - YES (NO)

Laboratory: SUNSTAR

Page 4 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270 Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	1,4-Dioxane EPA 8260/8270 Arsenic
B21-0.5	61	1340	11/21	Soil	J						X	X OCP only	X	
B21-1.5	62	1350	11/21											
B21-2.5	63	1400	11/21								X	X OCP only	X	
B22-0.5	64	1450	11/21											
B22-1.5	65	1455	11/21											
B22-2.5	66	1505	11/21								X	X OCP only	X	
B23-0.5	67	1030	11/21											
B23-1.5	68	1040	11/21											
B23-2.5	69	1050	11/21								X	X OCP only	X	
B24-0.5	70	1410	11/21											
B24-1.5	71	1420	11/21								X	X OCP only	X	
B24-2.5	72	1430	11/21											
B25-0.5	73	1190	11/21								X	X OCP only	X	
B25-1.5	74	1105	11/21											
B25-2.5	75	1115	11/21								X	X OCP only	X	
B26-0.5	76	1125	11/21											
B26-1.5	77	1135	11/21								X	X OCP only	X	
B26-2.5	78	1180	11/21											
B27-0.5	79	725	11/22								X	X OCP only	X	
B27-1.5	80	755	11/22											
Relinquished By: <i>[Signature]</i>	Date/Time: 11/23	Received By: <i>[Signature]</i>	Date/Time: 11/23/16 08:07	NOTES: 13.6										
Relinquished By:	Date/Time:	Received By:	Date/Time:											



SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T162015

Client Name: Pinnacle Project: GROVER CLEVELAND HIGH SCHOOL

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: BRIAN Date/Time Lab Received: 11-23-16 / 8:57

Total number of coolers received: 2

Temperature: Cooler #1	13.8	°C +/- the CF (- 0.2°C) =	13.6	°C corrected temperature
Temperature: Cooler #2	14.2	°C +/- the CF (- 0.2°C) =	14.0	°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If NO:				
Samples received on ice?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No → Complete Non-Conformance Sheet		
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet		

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: SL 11-23-16

Comments: _____

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # 7163015

- | | |
|--|---|
| <ul style="list-style-type: none"> ▪ COOLERS <ul style="list-style-type: none"> <input type="checkbox"/> Not Received (received COC only) <input type="checkbox"/> Leaking/Damaged <input type="checkbox"/> Other: ▪ CUSTODY SEALS <ul style="list-style-type: none"> <input type="checkbox"/> None <input type="checkbox"/> Not Intact ▪ TEMPERATURE (Temp criteria = ≤ 6°C) <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Cooler/Sample Temp(s) <input type="checkbox"/> Temperature Blank(s) ▪ CHAIN OF CUSTODY (COC) <ul style="list-style-type: none"> <input type="checkbox"/> Not relinquished by client; No date/time relinquished <input type="checkbox"/> Incomplete information provided <input type="checkbox"/> COC not received – notify PM ▪ CONTAINERS <ul style="list-style-type: none"> <input type="checkbox"/> Leaking <input type="checkbox"/> Broken <input type="checkbox"/> Extra <input type="checkbox"/> Missing | <ul style="list-style-type: none"> ▪ LABELS <ul style="list-style-type: none"> <input type="checkbox"/> Not the same sample ID / info as on the COC <input type="checkbox"/> Incomplete Information <input type="checkbox"/> Markings/Info illegible ▪ SAMPLES <ul style="list-style-type: none"> <input type="checkbox"/> Samples NOT RECEIVED but listed on COC <input type="checkbox"/> Samples received but NOT LISTED on COC <input type="checkbox"/> Logged based on Label Information and not COC <input type="checkbox"/> Logged according to Work Plan and not COC <input type="checkbox"/> Logged in, ON HOLD until further notice <input type="checkbox"/> Insufficient quantities for analysis <input type="checkbox"/> Improper container used <input type="checkbox"/> Mislabeled as to tests, preservatives, etc. <input type="checkbox"/> Holding time expired – list sample ID and test <input type="checkbox"/> Not preserved/Improper preservative used <input type="checkbox"/> Without Labels, no information on containers <input type="checkbox"/> Other |
|--|---|

Comments: SAMPLES WERE NOT ON ICE WHEN RECEIVED

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

PEA EQUIVALENT SAMPLING TABLE
 Grover Cleveland Charter High School
 8410 Varalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses	
Building K (MPR and Lunch Pavilion)	Removal	Historical Agriculture	Targeted Perimeter	1	B1	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	4	
Utility Building	Removal	Historical Agriculture	Targeted Perimeter	1	B6	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	
Building L	Removal	Historical Agriculture	Targeted Perimeter	2	B8, B9	TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5'	2	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
Interceptor	Removal	Vessel/line releases	Targeted to potential release points	2	SV1, SV2 (soil vapor)	TPH (Full-Scan) - EPA Method 8015m	5', 10', 15'	2	
						VOCs - EPA Method 8260B	5', 10', 15'	2	
North Parking Lot	Removal, New Road	Historical Agriculture	Areal Coverage	2	B12, B13	Tile 22 Metals	5', 10', 15'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
Buildings A-810 to A-815, AA-1001, AA-1654, AA-1999, AA-962, AA-964	Removal	Historical Agriculture	Areal Coverage of Similar Structures	16	B14-B29	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Historical Agriculture	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Historical Pesticides	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	16
Buildings C, H, J and P, Building AA-2366	Removal	Historical Agriculture	Targeted Perimeter	9	B30-B38	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	9	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	9
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	9
Access Road	Removal	Historical Agriculture	Composite to one sample for OCPs only	2	B39, B40	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
		Asbestos and Lead				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Transformers, Buildings C and P	Removal	potential PCBs in transformers	Targeted	2	B41, B42	PCBs - EPA Method 8082	0.5', 1.5', 2.5'	2
Tree wells south of Building J	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B43-B45	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Planters west of Chem Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B46, B47	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Chemistry Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	2	B48, B49	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Buildings AA-2199 and 2200, AA-3882 through AA-3887	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Areal Coverage of Similar Structures	8	B50-B57	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	8
Drain at storage locker	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead Hazmat storage	Targeted to potential release point	1	B58	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	1
Three lawn areas along access road	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B59-B61	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Access Road west of lawn areas	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B62-B64	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B65, B66	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B67, B68	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Buildings AA-2730 and A-751	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B69-B71	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B72, B73	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1
Buildings AA-3888 and AA-3889	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B74-B76	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3

Total Number of Borings 78
 Locations Requiring Coring 63

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Report To:
 Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due:	11/30/16 17:00 (3 day TAT)		
Received By:	Brian Charon	Date Received:	11/23/16 08:07
Logged In By:	Sunny Lounethone	Date Logged In:	11/23/16 09:16

Samples Received at:	13.6°C		
Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
T163015-01 B1-0.5 [Soil] Sampled 11/22/16 15:00 (GMT-08:00) Pacific Time (US				
&				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:00	As only
T163015-02 B1-1.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US				
&				
[NO ANALYSES]				
T163015-03 B1-2.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US				
&				
[NO ANALYSES]				
T163015-04 B2-0.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US				
&				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:00	
T163015-05 B2-1.5 [Soil] Sampled 11/21/16 14:10 (GMT-08:00) Pacific Time (US				
&				
[NO ANALYSES]				
T163015-06 B2-2.5 [Soil] Sampled 11/21/16 14:15 (GMT-08:00) Pacific Time (US				
&				
[NO ANALYSES]				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-07 B3-0.5 [Soil] Sampled 11/21/16 14:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:30	
T163015-08 B3-1.5 [Soil] Sampled 11/21/16 14:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-09 B3-2.5 [Soil] Sampled 11/21/16 14:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-10 B4-0.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:10	
T163015-11 B4-1.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-12 B4-2.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-13 B5-0.5 [Soil] Sampled 11/21/16 10:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:45	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:45	
8082 PCB	11/30/16 15:00	3	12/05/16 10:45	
T163015-14 B5-1.5 [Soil] Sampled 11/21/16 10:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-15 B5-2.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-16 B6-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As only

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-17 B6-1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-18 B6-2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-19 B7-0.5 [Soil] Sampled 11/21/16 11:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:25	As, Pb only
8015 Carbon Chain	11/30/16 15:00	3	12/05/16 11:25	
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:25	
T163015-20 B7-1.5 [Soil] Sampled 11/21/16 11:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-21 B7-2.5 [Soil] Sampled 11/21/16 11:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-22 B8-0.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:10	
T163015-23 B8-1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-24 B8-2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-25 B9-0.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:35	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:35	
T163015-26 B9-1.5 [Soil] Sampled 11/22/16 15:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-27 B9-2.5 [Soil] Sampled 11/22/16 15:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163015-28 B10-0.5 [Soil] Sampled 11/22/16 16:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 16:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 16:10	
T163015-29 B10-1.5 [Soil] Sampled 11/22/16 16:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163015-30 B10-2.5 [Soil] Sampled 11/22/16 16:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163015-31 B11-0.5 [Soil] Sampled 11/22/16 15:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:40	
T163015-32 B11-1.5 [Soil] Sampled 11/22/16 15:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163015-33 B11-2.5 [Soil] Sampled 11/22/16 16:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163015-34 B12-0.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:15	
T163015-35 B12-1.5 [Soil] Sampled 11/21/16 08:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163015-36 B12-2.5 [Soil] Sampled 11/21/16 08:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-37 B13-0.5 [Soil] Sampled 11/21/16 08:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:50	
8082 PCB	11/30/16 15:00	3	12/05/16 08:50	
T163015-38 B13-1.5 [Soil] Sampled 11/21/16 09:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-39 B13-2.5 [Soil] Sampled 11/21/16 09:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-40 B14-0.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:25	
T163015-41 B14-1.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-42 B14-2.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-43 B15-0.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:05	
T163015-44 B15-1.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-45 B15-2.5 [Soil] Sampled 11/21/16 10:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-46 B16-0.5 [Soil] Sampled 11/22/16 14:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 14:05	
T163015-47 B16-1.5 [Soil] Sampled 11/22/16 14:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-48 B16-2.5 [Soil] Sampled 11/22/16 14:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-49 B17-0.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:55	
T163015-50 B17-1.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-51 B17-2.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-52 B18-0.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:40	
T163015-53 B18-1.5 [Soil] Sampled 11/21/16 08:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-54 B18-2.5 [Soil] Sampled 11/21/16 09:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-55 B19-0.5 [Soil] Sampled 11/21/16 09:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:15	

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-56 B19-1.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-57 B19-2.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-58 B20-0.5 [Soil] Sampled 11/21/16 13:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:10	
T163015-59 B20-1.5 [Soil] Sampled 11/21/16 13:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-60 B20-2.5 [Soil] Sampled 11/21/16 13:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-61 B21-0.5 [Soil] Sampled 11/21/16 13:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:40	
T163015-62 B21-1.5 [Soil] Sampled 11/21/16 13:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-63 B21-2.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-64 B22-0.5 [Soil] Sampled 11/21/16 14:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:50	
T163015-65 B22-1.5 [Soil] Sampled 11/21/16 14:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-66 B22-2.5 [Soil] Sampled 11/21/16 15:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-67 B23-0.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:30	
T163015-68 B23-1.5 [Soil] Sampled 11/21/16 10:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-69 B23-2.5 [Soil] Sampled 11/21/16 10:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-70 B24-0.5 [Soil] Sampled 11/21/16 14:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:10	
T163015-71 B24-1.5 [Soil] Sampled 11/21/16 14:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-72 B24-2.5 [Soil] Sampled 11/21/16 14:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-73 B25-0.5 [Soil] Sampled 11/21/16 11:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:00	
T163015-74 B25-1.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-75 B25-2.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-76 B26-0.5 [Soil] Sampled 11/21/16 11:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:25	

T163015-77 B26-1.5 [Soil] Sampled 11/21/16 11:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

T163015-78 B26-2.5 [Soil] Sampled 11/21/16 11:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

T163015-79 B27-0.5 [Soil] Sampled 11/22/16 07:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 07:45	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 07:45	

T163015-80 B27-1.5 [Soil] Sampled 11/22/16 07:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

30 November 2016

Keith Thompson
Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch, CA 92610
RE: Grover Cleveland High School

Enclosed are the results of analyses for samples received by the laboratory on 11/23/16 08:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh
Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Pinnacle Environmental Technologies
 2 Santa Maria
 Foothill Ranch CA, 92610

Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 11/30/16 16:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B28-0.5	T163016-01	Soil	11/21/16 08:15	11/23/16 08:07
B29-0.5	T163016-04	Soil	11/21/16 08:55	11/23/16 08:07
B30-0.5	T163016-08	Soil	11/21/16 09:30	11/23/16 08:07
B31-0.5	T163016-11	Soil	11/21/16 10:00	11/23/16 08:07
B32-0.5	T163016-14	Soil	11/21/16 10:30	11/23/16 08:07
B33-0.5	T163016-17	Soil	11/21/16 11:05	11/23/16 08:07
B34-0.5	T163016-20	Soil	11/22/16 10:00	11/23/16 08:07
B35-0.5	T163016-23	Soil	11/21/16 15:10	11/23/16 08:07
B36-0.5	T163016-26	Soil	11/22/16 15:10	11/23/16 08:07
B37-0.5	T163016-29	Soil	11/21/16 13:35	11/23/16 08:07
B38-0.5	T163016-32	Soil	11/21/16 13:05	11/23/16 08:07
B39-0.5	T163016-35	Soil	11/22/16 14:10	11/23/16 08:07
B40-0.5	T163016-38	Soil	11/22/16 11:10	11/23/16 08:07
B41-0.5	T163016-41	Soil	11/22/16 10:40	11/23/16 08:07
B42-0.5	T163016-44	Soil	11/22/16 12:05	11/23/16 08:07
B43-0.5	T163016-47	Soil	11/21/16 08:05	11/23/16 08:07
B44-0.5	T163016-50	Soil	11/21/16 08:30	11/23/16 08:07
B45-0.5	T163016-53	Soil	11/21/16 08:55	11/23/16 08:07
B46-0.5	T163016-56	Soil	11/21/16 08:10	11/23/16 08:07
B47-0.5	T163016-59	Soil	11/21/16 08:40	11/23/16 08:07
B48-0.5	T163016-62	Soil	11/22/16 08:55	11/23/16 08:07
B49-0.5	T163016-65	Soil	11/22/16 07:25	11/23/16 08:07
B50-0.5	T163016-68	Soil	11/22/16 14:50	11/23/16 08:07
B51-0.5	T163016-71	Soil	11/22/16 11:10	11/23/16 08:07
B52-0.5	T163016-74	Soil	11/22/16 09:30	11/23/16 08:07
B53-0.5	T163016-77	Soil	11/22/16 08:00	11/23/16 08:07

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Pinnacle Environmental Technologies
 2 Santa Maria
 Foothill Ranch CA, 92610

Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 11/30/16 16:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B54- 0.5	T163016-80	Soil	11/22/16 12:50	11/23/16 08:07
Composite B39,B40- 0.5	T163016-81	Soil	11/22/16 00:00	11/23/16 08:07
Composite B43,B44, B45- 0.5	T163016-82	Soil	11/22/16 00:00	11/23/16 08:07
Composite B46,B47- 0.5	T163016-83	Soil	11/22/16 00:00	11/23/16 08:07

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

Sample ID: B34- 0.5

Laboratory ID: T163016-20

No Results Detected

Sample ID: B35- 0.5

Laboratory ID: T163016-23

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	27	3.0		mg/kg	EPA 6010B	

Sample ID: B36- 0.5

Laboratory ID: T163016-26

No Results Detected

Sample ID: B37- 0.5

Laboratory ID: T163016-29

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	190	2.7		mg/kg	EPA 6010B	
Dieldrin	29	5.0		ug/kg	EPA 8081A	
Endrin	5.8	5.0		ug/kg	EPA 8081A	

Sample ID: B38- 0.5

Laboratory ID: T163016-32

No Results Detected

Sample ID: B39- 0.5

Laboratory ID: T163016-35

No Results Detected

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

Sample ID: B40- 0.5

Laboratory ID: T163016-38

No Results Detected

Sample ID: B41- 0.5

Laboratory ID: T163016-41

No Results Detected

Sample ID: B42- 0.5

Laboratory ID: T163016-44

No Results Detected

Sample ID: B43- 0.5

Laboratory ID: T163016-47

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	35	2.7		mg/kg	EPA 6010B	

Sample ID: B44- 0.5

Laboratory ID: T163016-50

No Results Detected

Sample ID: B45- 0.5

Laboratory ID: T163016-53

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	5.0	4.2		mg/kg	EPA 6010B	
Lead	22	2.5		mg/kg	EPA 6010B	

Sample ID: B46- 0.5

Laboratory ID: T163016-56

Analyte	Result	Reporting		Units	Method	Notes
		Limit				

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

Sample ID: B46- 0.5 **Laboratory ID:** T163016-56

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	5.1	5.0	mg/kg	EPA 6010B	

Sample ID: B47- 0.5 **Laboratory ID:** T163016-59

No Results Detected

Sample ID: B48- 0.5 **Laboratory ID:** T163016-62

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	38	2.7	mg/kg	EPA 6010B	
gamma-Chlordane	13	5.0	ug/kg	EPA 8081A	
alpha-Chlordane	21	5.0	ug/kg	EPA 8081A	

Sample ID: B49- 0.5 **Laboratory ID:** T163016-65

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	6.0	5.0	mg/kg	EPA 6010B	
Lead	20	3.0	mg/kg	EPA 6010B	

Sample ID: B50- 0.5 **Laboratory ID:** T163016-68

No Results Detected

Sample ID: B51- 0.5 **Laboratory ID:** T163016-71

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	23	3.0	mg/kg	EPA 6010B	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

Sample ID: B52- 0.5

Laboratory ID: T163016-74

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	29	3.0	mg/kg	EPA 6010B	

Sample ID: B53- 0.5

Laboratory ID: T163016-77

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Arsenic	4.6	4.5	mg/kg	EPA 6010B	

Sample ID: B54- 0.5

Laboratory ID: T163016-80

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	150	2.7	mg/kg	EPA 6010B	

Sample ID: Composite B39,B40- 0.5

Laboratory ID: T163016-81

No Results Detected

Sample ID: Composite B43,B44, B45- 0.5

Laboratory ID: T163016-82

No Results Detected

Sample ID: Composite B46,B47- 0.5

Laboratory ID: T163016-83

No Results Detected

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager



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 Lake Forest, California 92630
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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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B28-0.5
T163016-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	56.2 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	58.2 %	35-140	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B29- 0.5
T163016-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		49.7 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		54.5 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B30- 0.5
T163016-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

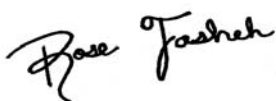
Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		51.1 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		55.7 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B31- 0.5
T163016-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		51.0 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		53.6 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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B32- 0.5
T163016-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		53.3 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		60.4 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B33- 0.5
T163016-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112313	11/23/16	11/30/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		113 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		102 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B34- 0.5
T163016-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		52.4 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		64.8 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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B34- 0.5
T163016-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6112816	11/28/16	11/30/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		66.4 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		76.8 %	35-140		"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B35- 0.5
T163016-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	27	3.0	"	"	"	"	"	"	"

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	"
beta-BHC	ND	5.0	"	"	"	"	"	"	"
delta-BHC	ND	5.0	"	"	"	"	"	"	"
Heptachlor	ND	5.0	"	"	"	"	"	"	"
Aldrin	ND	5.0	"	"	"	"	"	"	"
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	"
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	"
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	"
Endosulfan I	ND	5.0	"	"	"	"	"	"	"
4,4'-DDE	ND	5.0	"	"	"	"	"	"	"
Dieldrin	ND	5.0	"	"	"	"	"	"	"
Endrin	ND	5.0	"	"	"	"	"	"	"
4,4'-DDD	ND	5.0	"	"	"	"	"	"	"
Endosulfan II	ND	5.0	"	"	"	"	"	"	"
4,4'-DDT	ND	5.0	"	"	"	"	"	"	"
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	"
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	"
Methoxychlor	ND	10	"	"	"	"	"	"	"
Endrin ketone	ND	5.0	"	"	"	"	"	"	"
Toxaphene	ND	200	"	"	"	"	"	"	"
Surrogate: Tetrachloro-meta-xylene		50.2 %		35-140	"	"	"	"	"
Surrogate: Decachlorobiphenyl		60.2 %		35-140	"	"	"	"	"

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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B36- 0.5
T163016-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		55.4 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		65.0 %	35-140		"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B37- 0.5
T163016-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	190	2.7	"	"	"	"	"	"	"

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	"
beta-BHC	ND	5.0	"	"	"	"	"	"	"
delta-BHC	ND	5.0	"	"	"	"	"	"	"
Heptachlor	ND	5.0	"	"	"	"	"	"	"
Aldrin	ND	5.0	"	"	"	"	"	"	"
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	"
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	"
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	"
Endosulfan I	ND	5.0	"	"	"	"	"	"	"
4,4'-DDE	ND	5.0	"	"	"	"	"	"	"
Dieldrin	29	5.0	"	"	"	"	"	"	"
Endrin	5.8	5.0	"	"	"	"	"	"	"
4,4'-DDD	ND	5.0	"	"	"	"	"	"	"
Endosulfan II	ND	5.0	"	"	"	"	"	"	"
4,4'-DDT	ND	5.0	"	"	"	"	"	"	"
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	"
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	"
Methoxychlor	ND	10	"	"	"	"	"	"	"
Endrin ketone	ND	5.0	"	"	"	"	"	"	"
Toxaphene	ND	200	"	"	"	"	"	"	"

Surrogate: Tetrachloro-meta-xylene

51.9 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

57.8 % 35-140

" " " "

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B38- 0.5
T163016-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		50.8 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		48.1 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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B39- 0.5
T163016-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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B40- 0.5
T163016-38 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112818	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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B41- 0.5
T163016-41 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6112816	11/28/16	11/30/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		68.5 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		79.2 %	35-140		"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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B42- 0.5
T163016-44 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6112816	11/28/16	11/30/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		72.3 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		77.9 %	35-140		"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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B43- 0.5
T163016-47 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	35	2.7	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
--	--	------------------------------------

B44- 0.5
T163016-50 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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B45- 0.5
T163016-53 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	5.0	4.2	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	22	2.5	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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B46- 0.5
T163016-56 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	5.1	5.0	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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B47- 0.5
T163016-59 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B48- 0.5
T163016-62 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	38	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	13	5.0	"	"	"	"	"	"	
alpha-Chlordane	21	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

51.0 % 35-140

" " " "

Surrogate: Decachlorobiphenyl

47.5 % 35-140

" " " "

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B49- 0.5
T163016-65 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	6.0	5.0	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	20	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		55.8 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		56.7 %	35-140		"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B50- 0.5
T163016-68 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		55.6 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		51.7 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B51- 0.5
T163016-71 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	23	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		56.0 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		55.9 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B52- 0.5
T163016-74 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	29	3.0	"	"	"	"	"	"	"

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	"
beta-BHC	ND	5.0	"	"	"	"	"	"	"
delta-BHC	ND	5.0	"	"	"	"	"	"	"
Heptachlor	ND	5.0	"	"	"	"	"	"	"
Aldrin	ND	5.0	"	"	"	"	"	"	"
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	"
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	"
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	"
Endosulfan I	ND	5.0	"	"	"	"	"	"	"
4,4'-DDE	ND	5.0	"	"	"	"	"	"	"
Dieldrin	ND	5.0	"	"	"	"	"	"	"
Endrin	ND	5.0	"	"	"	"	"	"	"
4,4'-DDD	ND	5.0	"	"	"	"	"	"	"
Endosulfan II	ND	5.0	"	"	"	"	"	"	"
4,4'-DDT	ND	5.0	"	"	"	"	"	"	"
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	"
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	"
Methoxychlor	ND	10	"	"	"	"	"	"	"
Endrin ketone	ND	5.0	"	"	"	"	"	"	"
Toxaphene	ND	200	"	"	"	"	"	"	"
Surrogate: Tetrachloro-meta-xylene		50.0 %	35-140		"	"	"	"	"
Surrogate: Decachlorobiphenyl		41.1 %	35-140		"	"	"	"	"

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B53- 0.5
T163016-77 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	4.6	4.5	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		56.2 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		52.3 %	35-140		"	"	"	"	

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

B54- 0.5
T163016-80 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	150	2.7	"	"	"	"	"	"	"

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	"
beta-BHC	ND	5.0	"	"	"	"	"	"	"
delta-BHC	ND	5.0	"	"	"	"	"	"	"
Heptachlor	ND	5.0	"	"	"	"	"	"	"
Aldrin	ND	5.0	"	"	"	"	"	"	"
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	"
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	"
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	"
Endosulfan I	ND	5.0	"	"	"	"	"	"	"
4,4'-DDE	ND	5.0	"	"	"	"	"	"	"
Dieldrin	ND	5.0	"	"	"	"	"	"	"
Endrin	ND	5.0	"	"	"	"	"	"	"
4,4'-DDD	ND	5.0	"	"	"	"	"	"	"
Endosulfan II	ND	5.0	"	"	"	"	"	"	"
4,4'-DDT	ND	5.0	"	"	"	"	"	"	"
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	"
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	"
Methoxychlor	ND	10	"	"	"	"	"	"	"
Endrin ketone	ND	5.0	"	"	"	"	"	"	"
Toxaphene	ND	200	"	"	"	"	"	"	"
Surrogate: Tetrachloro-meta-xylene		45.2 %		35-140	"	"	"	"	"
Surrogate: Decachlorobiphenyl		45.9 %		35-140	"	"	"	"	"

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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**Composite B39,B40- 0.5
T163016-81 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		58.8 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		59.5 %		35-140	"	"	"	"	

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies
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 Foothill Ranch CA, 92610

Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 11/30/16 16:53

Composite B43,B44, B45- 0.5
T163016-82 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		56.1 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		56.3 %		35-140	"	"	"	"	

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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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**Composite B46,B47- 0.5
T163016-83 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112318	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		54.2 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		42.4 %		35-140	"	"	"	"	

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

Metals by EPA 6010B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112818 - EPA 3051

Blank (6112818-BLK1)

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	ND	5.0	mg/kg							
Lead	ND	3.0	"							

LCS (6112818-BS1)

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	115	5.0	mg/kg	100		115	75-125			
Lead	117	3.0	"	100		117	75-125			

Matrix Spike (6112818-MS1)

Source: T163015-61

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	84.8	5.0	mg/kg	100	1.95	82.9	75-125			
Lead	88.2	3.0	"	100	ND	88.2	75-125			

Matrix Spike Dup (6112818-MSD1)

Source: T163015-61

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	84.8	5.0	mg/kg	100	1.95	82.9	75-125	0.0343	20	
Lead	84.9	3.0	"	100	ND	84.9	75-125	3.73	20	

Batch 6112821 - EPA 3051

Blank (6112821-BLK1)

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	ND	5.0	mg/kg							
Lead	ND	3.0	"							

LCS (6112821-BS1)

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	94.2	5.0	mg/kg	100		94.2	75-125			
Lead	101	3.0	"	100		101	75-125			

Matrix Spike (6112821-MS1)

Source: T163016-47

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	70.9	5.0	mg/kg	100	3.98	66.9	75-125			QM-05
Lead	91.4	3.0	"	100	34.6	56.7	75-125			QM-05

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112821 - EPA 3051

Matrix Spike Dup (6112821-MSD1)

Source: T163016-47

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	83.3	5.0	mg/kg	100	3.98	79.3	75-125	16.2	20	
Lead	104	3.0	"	100	34.6	69.4	75-125	13.0	20	QM-05

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Pinnacle Environmental Technologies
 2 Santa Maria
 Foothill Ranch CA, 92610

Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 11/30/16 16:53

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112313 - EPA 3550 ECD/GCMS

Blank (6112313-BLK1)

Prepared: 11/23/16 Analyzed: 11/30/16

alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4'-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4'-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	10.1		"	10.0		101	35-140			
Surrogate: Decachlorobiphenyl	9.65		"	10.0		96.5	35-140			

LCS (6112313-BS1)

Prepared: 11/23/16 Analyzed: 11/30/16

gamma-BHC (Lindane)	26.8	5.0	ug/kg	40.0		66.9	40-120			
Heptachlor	29.0	5.0	"	40.0		72.4	40-120			
Aldrin	31.1	5.0	"	40.0		77.9	40-120			
Dieldrin	31.4	5.0	"	40.0		78.5	40-120			
Endrin	30.5	5.0	"	40.0		76.3	40-120			
4,4'-DDT	20.6	5.0	"	40.0		51.4	33-147			
Surrogate: Tetrachloro-meta-xylene	8.31		"	10.0		83.1	35-140			
Surrogate: Decachlorobiphenyl	8.95		"	10.0		89.5	35-140			

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Rose Fasheh, Project Manager



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Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 11/30/16 16:53

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112313 - EPA 3550 ECD/GCMS

LCS Dup (6112313-BSD1)

Prepared: 11/23/16 Analyzed: 11/30/16

gamma-BHC (Lindane)	28.5	5.0	ug/kg	40.0		71.2	40-120	6.24	30	
Heptachlor	32.4	5.0	"	40.0		81.1	40-120	11.3	30	
Aldrin	34.9	5.0	"	40.0		87.3	40-120	11.5	30	
Dieldrin	33.5	5.0	"	40.0		83.7	40-120	6.47	30	
Endrin	33.4	5.0	"	40.0		83.6	40-120	9.07	30	
4,4'-DDT	33.6	5.0	"	40.0		83.9	33-147	48.0	30	QR-02
Surrogate: Tetrachloro-meta-xylene	10.4		"	10.0		104	35-140			
Surrogate: Decachlorobiphenyl	10.2		"	10.0		102	35-140			

Batch 6112318 - EPA 3550 ECD/GCMS

Blank (6112318-BLK1)

Prepared: 11/23/16 Analyzed: 11/29/16

alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4'-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4'-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	6.04		"	10.0		60.4	35-140			
Surrogate: Decachlorobiphenyl	7.28		"	10.0		72.8	35-140			

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 11/30/16 16:53
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Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112318 - EPA 3550 ECD/GCMS

LCS (6112318-BS1)

Prepared: 11/23/16 Analyzed: 11/29/16

gamma-BHC (Lindane)	29.5	5.0	ug/kg	40.0		73.7	40-120			
Heptachlor	37.3	5.0	"	40.0		93.3	40-120			
Aldrin	25.1	5.0	"	40.0		62.8	40-120			
Dieldrin	29.4	5.0	"	40.0		73.4	40-120			
Endrin	34.0	5.0	"	40.0		85.1	40-120			
4,4'-DDT	23.3	5.0	"	40.0		58.3	33-147			
Surrogate: Tetrachloro-meta-xylene	6.09		"	10.0		60.9	35-140			
Surrogate: Decachlorobiphenyl	7.27		"	10.0		72.7	35-140			

LCS Dup (6112318-BS1)

Prepared: 11/23/16 Analyzed: 11/29/16

gamma-BHC (Lindane)	28.5	5.0	ug/kg	40.0		71.3	40-120	3.31	30	
Heptachlor	32.4	5.0	"	40.0		81.1	40-120	14.0	30	
Aldrin	23.9	5.0	"	40.0		59.9	40-120	4.77	30	
Dieldrin	27.3	5.0	"	40.0		68.2	40-120	7.45	30	
Endrin	32.0	5.0	"	40.0		80.1	40-120	6.08	30	
4,4'-DDT	22.5	5.0	"	40.0		56.4	33-147	3.39	30	
Surrogate: Tetrachloro-meta-xylene	5.63		"	10.0		56.3	35-140			
Surrogate: Decachlorobiphenyl	6.68		"	10.0		66.8	35-140			

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Pinnacle Environmental Technologies
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Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 11/30/16 16:53

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112816 - EPA 3550 ECD/GCMS

Blank (6112816-BLK1)

Prepared: 11/28/16 Analyzed: 11/30/16

PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	6.68		"	10.0		66.8	35-140			
Surrogate: Decachlorobiphenyl	8.32		"	10.0		83.2	35-140			

LCS (6112816-BS1)

Prepared: 11/28/16 Analyzed: 11/30/16

PCB-1016	97.4	10	ug/kg	100		97.4	40-130			
PCB-1260	68.4	10	"	100		68.4	40-130			
Surrogate: Tetrachloro-meta-xylene	6.98		"	10.0		69.8	35-140			
Surrogate: Decachlorobiphenyl	7.85		"	10.0		78.5	35-140			

LCS Dup (6112816-BSD1)

Prepared: 11/28/16 Analyzed: 11/30/16

PCB-1016	97.7	10	ug/kg	100		97.7	40-130	0.248	30	
PCB-1260	78.4	10	"	100		78.4	40-130	13.6	30	
Surrogate: Tetrachloro-meta-xylene	6.76		"	10.0		67.6	35-140			
Surrogate: Decachlorobiphenyl	7.99		"	10.0		79.9	35-140			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
11/30/16 16:53

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

CHAIN OF CUSTODY RECORD

3-DAY



Site: GRAVER CLEARLAND HIGH SCHOOL
 Address: 8140 VANDERBILT AVE.

Project Manager: MALVEY THOMPSON
 Sampled By: MALVEY THOMPSON

Reseda CA 91301
 Laboratory: SUNSTAR

NORM / RUSH
 EDF - YES NO
 Page 5 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SYOG EPA 8270C Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	14-Benzenes EPA 8260M Residue
B28-0.5	01	815	11/21	Soil	J									
B28-1.5	02	825	11/21											
B28-2.5	03	840	11/21											
B29-0.5	04	855	11/21											
B29-1.5	05	905	11/21											
B29-2.5	06	920	11/21											
B29-2.5	07	805	11/22											
B30-0.5	08	930	11/21											
B30-1.5	09	935	11/21											
B30-2.5	10	950	11/21											
B31-0.5	11	1000	11/21											
B31-1.5	12	1010	11/21											
B31-2.5	13	1020	11/21											
B32-0.5	14	1030	11/21											
B32-1.5	15	1040	11/21											
B32-2.5	16	1050	11/21											
B33-0.5	17	1105	11/21											
B33-1.5	18	1110	11/21											
B33-2.5	19	1120	11/21											
B34-0.5	20	1000	11/22											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/23</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/16 08:07</u>		NOTES:						

CHAIN OF CUSTODY RECORD

3-DAY



Site: GRAVER-CLEVERLAND HIGH SCHOOL MALVEY THOMPSON
Address: 8140 VALLEJO AVE. MALVEY THOMPSON
Project Manager: _____
Sampled By: _____
Laboratory: RESEDA CA T163016 SWISTER

NORM (RUSH)
EDF - YES (NO)

Page 6 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8260B	Pesticides PCBs EPA 8081/8082	Title 22 Metals	1,4-Dioxane EPA 8260B
B34-1.5	21	1010	11/22	Soil	J									
B34-2.5	22	1020	11/22											
B35-0.5	23	1510	11/21											
B35-1.5	24	1520	11/21											
B35-2.5	25	1530	11/21											
B36-0.5	26	1510	11/22											
B36-1.5	27	1515	11/22											
B36-2.5	28	1525	11/22											
B37-0.5	29	1335	11/21											
B37-1.5	30	1345	11/21											
B37-2.5	31	1400	11/21											
B38-0.5	32	1305	11/21											
B38-1.5	33	1310	11/21											
B38-2.5	34	1320	11/21											
B39-0.5	35	1410	11/22											
B39-1.5	36	1420	11/22											
B39-2.5	37	1430	11/22											
B40-0.5	38	1110	11/22											
B40-1.5	39	1120	11/22											
B40-2.5	40	1130	11/22											

Relinquished By: [Signature] **Date/Time:** 11/23/16 **Received By:** [Signature] **Date/Time:** 11/23/16
Relinquished By: _____ **Date/Time:** _____ **Received By:** _____ **Date/Time:** _____

NOTES:

B39-0.5 / only on
 B39-1.5 / composite
 B39-2.5 / composite
 B40-0.5 / composite
 B40-1.5 / composite
 B40-2.5 / composite

CHAIN OF CUSTODY RECORD

3-044



Site: Graver Cleveand High School Project Manager: MALVEY THOMPSON
 Address: 8140 VANDERBEN AVE Sampled By: MALVEY THOMPSON
RESEDA CA 91326 Laboratory: SUNSTAR

NORM (RUSH)
 EDF - YES (NO)

Page 7 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270 Lead	Pesticides PCBs EPA 8081/8082	Title 22 Metals	Lab EPA-600/5035M 8796UC
B41-0.5	41	1040	11/22	Soil	J								X PCBs only	
B41-1.5	42	1045	11/22											
B41-2.5	43	1055	11/22											
B42-0.5	44	1205	11/22										X PCBs only	
B42-1.5	45	1215	11/22											
B42-2.5	46	1225	11/22											
B43-0.5	47	905	11/21										X	
B43-1.5	48	810	11/21											
B43-2.5	49	820	11/21										X PCBs composite	
B44-0.5	50	830	11/21										X B43, 44, 45 95	
B44-1.5	51	835	11/21											
B44-2.5	52	845	11/21											
B45-0.5	53	855	11/21										X	
B45-1.5	54	905	11/21											
B45-2.5	55	915	11/21											
B46-0.5	56	810	11/21										X PCBs composite	
B46-1.5	57	815	11/21										X B46, 47-0.5	
B46-2.5	58	830	11/21											
B47-0.5	59	840	11/21										X	
B47-1.5	60	845	11/21											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/23/10</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/10 08:07</u>		NOTES:						

CHAIN OF CUSTODY RECORD

3-DAY



Site: GROVER CLEVELAND HIGH SCHOOL
 Address: 8140 VAN ALDER AVE

Project Manager: MALVEY THOMPSON
 Sampled By: MALVEY THOMPSON

NORM (RUSH)
 EDF - YES (NO)

RES EDA CA

7163016

Laboratory: SWITZER

Page 8 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (Encore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270B <i>Lead</i>	Pesticides PCB's EPA 8081/8082	Title 22 Metals	Lab Storage EPA 8260SM 42520C
B47-2.5	61	855	11/21	Soil	J									
B48-0.5	62	655	11/22											
B48-1.5	63	705	11/22											
B48-2.5	64	715	11/22											
B49-0.5	65	725	11/22											
B49-1.5	66	735	11/22											
B49-2.5	67	745	11/22											
B50-0.5	68	745	11/22											
B50-1.5	69	1455	11/22											
B50-2.5	70	1505	11/22											
B51-0.5	71	1110	11/22											
B51-1.5	72	1120	11/22											
B51-2.5	73	1130	11/22											
B52-0.5	74	930	11/22											
B52-1.5	75	940	11/22											
B52-2.5	76	950	11/22											
B53-0.5	77	800	11/22											
B53-1.5	78	805	11/22											
B53-2.5	79	815	11/22											
B54-0.5	80	1250	11/22											
Relinquished By: <i>[Signature]</i>		Date/Time: <u>11/24/16</u>		Received By: <i>[Signature]</i>		Date/Time: <u>11/23/16</u>		Notes: <u>OCB only</u>		Date/Time: <u>08-07</u>		Notes: <u>OCB only</u>		
Relinquished By:		Date/Time:		Received By:		Date/Time:		Notes:		Date/Time:		Notes:		

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T163016

Client Name: PINNACLE Project: GROUPER CLEVELAND HS.

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: BRIAN Date/Time Lab Received: 11-23-16 8:07

Total number of coolers received:

Temperature: Cooler #1	13.5	°C +/- the CF (- 0.2°C) =	13.3	°C corrected temperature
Temperature: Cooler #2		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
If NO:				
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet		
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet		

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: BC 11-23-16

Comments:

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # _____

▪ **COOLERS**

- Not Received (received COC only)
- Leaking/Damaged
- Other:

▪ **CUSTODY SEALS**

- None
- Not Intact

▪ **TEMPERATURE (Temp criteria = $\leq 6^{\circ}\text{C}$)**

- Cooler/Sample Temp(s)
- Temperature Blank(s)

▪ **CHAIN OF CUSTODY (COC)**

- Not relinquished by client; No date/time relinquished
- Incomplete information provided
- COC not received – notify PM

▪ **CONTAINERS**

- Leaking
- Broken
- Extra
- Missing

▪ **LABELS**

- Not the same sample ID / info as on the COC
- Incomplete Information
- Markings/Info illegible

▪ **SAMPLES**

- Samples **NOT RECEIVED** but listed on COC
- Samples received but **NOT LISTED** on COC
- Logged based on Label Information and not COC
- Logged according to Work Plan and not COC
- Logged in, **ON HOLD** until further notice
- Insufficient quantities for analysis
- Improper container used
- Mislabeled as to tests, preservatives, etc.
- Holding time expired – list sample ID and test
- Not preserved/Improper preservative used
- Without Labels, no information on containers
- Other

Comments: TWO SAMPLE JARS ARE MISSING #60 B47-1.5, #61 B47-2.5

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

PEA EQUIVALENT SAMPLING TABLE
 Grover Cleveland Charter High School
 8410 Varalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses	
Building K (MPR and Lunch Pavilion)	Removal	Historical Agriculture	Targeted Perimeter	1	B1	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	4	
Utility Building	Removal	Historical Agriculture	Targeted Perimeter	1	B6	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	
Building L	Removal	Historical Agriculture	Targeted Perimeter	2	B8, B9	TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5'	2	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
Interceptor	Removal	Vessel/line releases	Targeted to potential release points	2	SV1, SV2 (soil vapor)	TPH (Full-Scan) - EPA Method 8015m	5', 10', 15'	2	
						VOCs - EPA Method 8260B	5', 10', 15'	2	
North Parking Lot	Removal, New Road	Historical Agriculture	Areal Coverage	2	B12, B13	Tile 22 Metals	5', 10', 15'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
Buildings A-810 to A-815, AA-1001, AA-1654, AA-1999, AA-962, AA-964	Removal	Historical Agriculture	Areal Coverage of Similar Structures	16	B14-B29	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	16	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Historical Agriculture	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	16
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	9
Buildings C, H, J and P, Building AA-2366	Removal	Historical Agriculture	Targeted Perimeter	9	B30-B38	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	9	
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	9
Access Road	Removal	Historical Agriculture	Composite to one sample for OCPs only	2	B39, B40	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
		Asbestos and Lead				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Transformers, Buildings C and P	Removal	potential PCBs in transformers	Targeted	2	B41, B42	PCBs - EPA Method 8082	0.5', 1.5', 2.5'	2
Tree wells south of Building J	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B43-B45	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Planters west of Chem Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B46, B47	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Chemistry Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	2	B48, B49	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Buildings AA-2199 and 2200, AA-3882 through AA-3887	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Areal Coverage of Similar Structures	8	B50-B57	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	8
Drain at storage locker	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead Hazmat storage	Targeted to potential release point	1	B58	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	1
Three lawn areas along access road	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B59-B61	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Access Road west of lawn areas	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B62-B64	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B65, B66	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B67, B68	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Buildings AA-2730 and A-751	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B69-B71	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B72, B73	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1
Buildings AA-3888 and AA-3889	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B74-B76	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3

Total Number of Borings 78
 Locations Requiring Coring 63

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Report To:
 Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due:	11/30/16 17:00 (3 day TAT)	Date Received:	11/23/16 08:07
Received By:	Brian Charon	Date Logged In:	11/23/16 09:17
Logged In By:	Brian Charon		

Samples Received at:	13.3°C
Custody Seals	No
Received On Ice	No
Containers Intact	Yes
COC/Labels Agree	Yes
Preservation Confir	No

Analysis	Due	TAT	Expires	Comments
T163016-01 B28-0.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:15	
T163016-02 B28- 1.5 [Soil] Sampled 11/21/16 08:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-03 B28- 2.5 [Soil] Sampled 11/21/16 08:40 (
[NO ANALYSES]				
T163016-04 B29- 0.5 [Soil] Sampled 11/21/16 08:55 (
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:55	
T163016-05 B29- 1.5 [Soil] Sampled 11/21/16 09:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-06 B29- 2.5 [Soil] Sampled 11/21/16 09:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-07 B27- 2.5 [Soil] Sampled 11/22/16 08:05 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-08 B30- 0.5 [Soil] Sampled 11/21/16 09:30 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:30	
T163016-09 B30- 1.5 [Soil] Sampled 11/21/16 09:35 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-10 B30- 2.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-11 B31- 0.5 [Soil] Sampled 11/21/16 10:00 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:00	
T163016-12 B31- 1.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-13 B31- 2.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-14 B32- 0.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:30	
T163016-15 B32- 1.5 [Soil] Sampled 11/21/16 10:40 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-16 B32- 2.5 [Soil] Sampled 11/21/16 10:50 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-17 B33- 0.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:05	
T163016-18 B33- 1.5 [Soil] Sampled 11/21/16 11:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-19 B33- 2.5 [Soil] Sampled 11/21/16 11:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-20 B34- 0.5 [Soil] Sampled 11/22/16 10:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 10:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 10:00	
8082 PCB	11/30/16 15:00	3	12/06/16 10:00	
T163016-21 B34- 1.5 [Soil] Sampled 11/22/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-22 B34- 2.5 [Soil] Sampled 11/22/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-23 B35- 0.5 [Soil] Sampled 11/21/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 15:10	
T163016-24 B35- 1.5 [Soil] Sampled 11/21/16 15:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-25 B35- 2.5 [Soil] Sampled 11/21/16 15:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-26 B36- 0.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:10	
T163016-27 B36- 1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-28 B36- 2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-29 B37- 0.5 [Soil] Sampled 11/21/16 13:35 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:35	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:35	
T163016-30 B37- 1.5 [Soil] Sampled 11/21/16 13:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-31 B37- 2.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-32 B38- 0.5 [Soil] Sampled 11/21/16 13:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:05	
T163016-33 B38- 1.5 [Soil] Sampled 11/21/16 13:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-34 B38- 2.5 [Soil] Sampled 11/21/16 13:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-35 B39- 0.5 [Soil] Sampled 11/22/16 14:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:10	As, Pb only

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-36 B39- 1.5 [Soil] Sampled 11/22/16 14:20 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-37 B39- 2.5 [Soil] Sampled 11/22/16 14:30 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-38 B40- 0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time				
(US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
T163016-39 B40- 1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-40 B40- 2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-41 B41- 0.5 [Soil] Sampled 11/22/16 10:40 (GMT-08:00) Pacific Time				
(US & 8082 PCB				
	11/30/16 15:00	3	12/06/16 10:40	
T163016-42 B41- 1.5 [Soil] Sampled 11/22/16 10:45 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-43 B41- 2.5 [Soil] Sampled 11/22/16 10:55 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-44 B42- 0.5 [Soil] Sampled 11/22/16 12:05 (GMT-08:00) Pacific Time				
(US & 8082 PCB				
	11/30/16 15:00	3	12/06/16 12:05	
T163016-45 B42- 1.5 [Soil] Sampled 11/22/16 12:15 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-46 B42- 2.5 [Soil] Sampled 11/22/16 12:25 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-47 B43- 0.5 [Soil] Sampled 11/21/16 08:05 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:05	As, Pb only
T163016-48 B43- 1.5 [Soil] Sampled 11/21/16 08:10 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-49 B43- 2.5 [Soil] Sampled 11/21/16 08:20 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-50 B44- 0.5 [Soil] Sampled 11/21/16 08:30 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:30	As, Pb only
T163016-51 B44- 1.5 [Soil] Sampled 11/21/16 08:35 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-52 B44- 2.5 [Soil] Sampled 11/21/16 08:45 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-53 B45- 0.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:55	As, Pb only
T163016-54 B45- 1.5 [Soil] Sampled 11/21/16 09:05 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-55 B45- 2.5 [Soil] Sampled 11/21/16 09:15 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-56 B46- 0.5 [Soil] Sampled 11/21/16 08:10 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:10	As, Pb only
T163016-57 B46- 1.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-58 B46- 2.5 [Soil] Sampled 11/21/16 08:30 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-59 B47- 0.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:40	As, Pb only
T163016-60 B47- 1.5 [Soil] Sampled 11/21/16 08:45 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-61 B47- 2.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-62 B48- 0.5 [Soil] Sampled 11/22/16 08:55 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 08:55	
T163016-63 B48- 1.5 [Soil] Sampled 11/22/16 07:05 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-64 B48- 2.5 [Soil] Sampled 11/22/16 07:15 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-65 B49- 0.5 [Soil] Sampled 11/22/16 07:25 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 07:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 07:25	
T163016-66 B49- 1.5 [Soil] Sampled 11/22/16 07:35 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-67 B49- 2.5 [Soil] Sampled 11/22/16 07:45 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-68 B50- 0.5 [Soil] Sampled 11/22/16 14:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 14:50	
T163016-69 B50- 1.5 [Soil] Sampled 11/22/16 14:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-70 B50- 2.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-71 B51- 0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 11:10	
T163016-72 B51- 1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-73 B51- 2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-74 B52- 0.5 [Soil] Sampled 11/22/16 09:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 09:30	
T163016-75 B52- 1.5 [Soil] Sampled 11/22/16 09:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-76 B52- 2.5 [Soil] Sampled 11/22/16 09:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-77 B53- 0.5 [Soil] Sampled 11/22/16 08:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 08:00	

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
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T163016-78 B53- 1.5 [Soil] Sampled 11/22/16 08:05 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

T163016-79 B53- 2.5 [Soil] Sampled 11/22/16 08:15 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

T163016-80 B54- 0.5 [Soil] Sampled 11/22/16 12:50 (GMT-08:00) Pacific Time
 (US &

6010 Individual Metals	11/30/16 15:00	3	05/21/17 12:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 12:50	

T163016-81 Composite B39,B40- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00)2:1 Comp
 Pacific Time (US &

8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
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T163016-82 Composite B43,B44, B45- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US &
 3:1 Comp

8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
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T163016-83 Composite B46,B47- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00)2:1 Comp
 Pacific Time (US &

8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
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25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

01 December 2016

Keith Thompson
Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch, CA 92610
RE: Grover Cleveland High School

Enclosed are the results of analyses for samples received by the laboratory on 11/23/16 08:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh
Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson


Reported:
12/01/16 10:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B55-0.5	T163017-03	Soil	11/22/16 13:15	11/23/16 08:07
B56-0.5	T163017-06	Soil	11/22/16 13:50	11/23/16 08:07
B57-0.5	T163017-07	Soil	11/22/16 09:50	11/23/16 08:07
B58-0.5	T163017-10	Soil	11/22/16 11:40	11/23/16 08:07
B59-0.5	T163017-13	Soil	11/21/16 09:25	11/23/16 08:07
B60-0.5	T163017-16	Soil	11/21/16 09:50	11/23/16 08:07
B61-0.5	T163017-19	Soil	11/21/16 10:15	11/23/16 08:07
B62-0.5	T163017-22	Soil	11/21/16 09:45	11/23/16 08:07
B63-0.5	T163017-25	Soil	11/22/16 12:20	11/23/16 08:07
B64-0.5	T163017-28	Soil	11/22/16 11:10	11/23/16 08:07
B65-0.5	T163017-31	Soil	11/22/16 08:25	11/23/16 08:07
B66-0.5	T163017-34	Soil	11/22/16 08:50	11/23/16 08:07
B67-0.5	T163017-37	Soil	11/22/16 09:15	11/23/16 08:07
B68-0.5	T163017-40	Soil	11/22/16 09:40	11/23/16 08:07
B69-0.5	T163017-43	Soil	11/22/16 15:05	11/23/16 08:07
B70-0.5	T163017-46	Soil	11/22/16 15:30	11/23/16 08:07
B71-0.5	T163017-49	Soil	11/22/16 15:55	11/23/16 08:07
B72-0.5	T163017-52	Soil	11/22/16 14:00	11/23/16 08:07
B73-0.5	T163017-55	Soil	11/22/16 14:25	11/23/16 08:07
B74-0.5	T163017-58	Soil	11/22/16 13:00	11/23/16 08:07
B75-0.5	T163017-61	Soil	11/22/16 15:05	11/23/16 08:07
B76-0.5	T163017-62	Soil	11/22/16 15:30	11/23/16 08:07
DRUM	T163017-65	Soil	11/22/16 16:10	11/23/16 08:07
COMP: B59,60,61-0.5	T163017-66	Soil	11/22/16 00:00	11/23/16 08:07
COMP: B62,63,64-0.5	T163017-67	Soil	11/22/16 00:00	11/23/16 08:07
COMP: B65,66-0.5	T163017-68	Soil	11/22/16 00:00	11/23/16 08:07

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COMP: B67,68-0.5	T163017-69	Soil	11/22/16 00:00	11/23/16 08:07
COMP: B72,73-0.5	T163017-70	Soil	11/22/16 00:00	11/23/16 08:07

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

DETECTIONS SUMMARY

Sample ID: B55-0.5 **Laboratory ID:** T163017-03

No Results Detected

Sample ID: B56-0.5 **Laboratory ID:** T163017-06

No Results Detected

Sample ID: B57-0.5 **Laboratory ID:** T163017-07

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	5.8	5.0		mg/kg	EPA 6010B	
Lead	22	3.0		mg/kg	EPA 6010B	
PCB-1260	20	10		ug/kg	EPA 8082	

Sample ID: B58-0.5 **Laboratory ID:** T163017-10

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	110	10		mg/kg	EPA 8015C	
C29-C40 (MORO)	170	10		mg/kg	EPA 8015C	
Arsenic	14	4.5		mg/kg	EPA 6010B	
Lead	32	2.7		mg/kg	EPA 6010B	

Sample ID: B59-0.5 **Laboratory ID:** T163017-13

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	5.0	5.0		mg/kg	EPA 6010B	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

Sample ID: B60-0.5

Laboratory ID: T163017-16

No Results Detected

Sample ID: B61-0.5

Laboratory ID: T163017-19

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	22	3.0		mg/kg	EPA 6010B	

Sample ID: B62-0.5

Laboratory ID: T163017-22

No Results Detected

Sample ID: B63-0.5

Laboratory ID: T163017-25

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	4.6	4.5		mg/kg	EPA 6010B	

Sample ID: B64-0.5

Laboratory ID: T163017-28

No Results Detected

Sample ID: B65-0.5

Laboratory ID: T163017-31

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	4.8	4.5		mg/kg	EPA 6010B	

Sample ID: B66-0.5

Laboratory ID: T163017-34

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	5.0	5.0		mg/kg	EPA 6010B	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

Sample ID: B67-0.5

Laboratory ID: T163017-37

No Results Detected

Sample ID: B68-0.5

Laboratory ID: T163017-40

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	45	2.7		mg/kg	EPA 6010B	

Sample ID: B69-0.5

Laboratory ID: T163017-43

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	5.1	4.5		mg/kg	EPA 6010B	

Sample ID: B70-0.5

Laboratory ID: T163017-46

No Results Detected

Sample ID: B71-0.5

Laboratory ID: T163017-49

No Results Detected

Sample ID: B72-0.5

Laboratory ID: T163017-52

No Results Detected

Sample ID: B73-0.5

Laboratory ID: T163017-55

No Results Detected

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

Sample ID: B74-0.5

Laboratory ID: T163017-58

No Results Detected

Sample ID: B75-0.5

Laboratory ID: T163017-61

No Results Detected

Sample ID: B76-0.5

Laboratory ID: T163017-62

No Results Detected

Sample ID: DRUM

Laboratory ID: T163017-65

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	150	10		mg/kg	EPA 8015C	
C29-C40 (MORO)	400	10		mg/kg	EPA 8015C	
Arsenic	5.0	4.2		mg/kg	EPA 6010B	
Barium	140	0.83		mg/kg	EPA 6010B	
Cadmium	1.8	1.7		mg/kg	EPA 6010B	
Chromium	12	1.7		mg/kg	EPA 6010B	
Cobalt	24	1.7		mg/kg	EPA 6010B	
Copper	18	0.83		mg/kg	EPA 6010B	
Molybdenum	5.1	4.2		mg/kg	EPA 6010B	
Nickel	23	1.7		mg/kg	EPA 6010B	
Vanadium	33	4.2		mg/kg	EPA 6010B	
Zinc	13	0.83		mg/kg	EPA 6010B	

Sample ID: COMP: B59,60,61-0.5

Laboratory ID: T163017-66

No Results Detected

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

Sample ID: COMP: B62,63,64-0.5

Laboratory ID: T163017-67

No Results Detected

Sample ID: COMP: B65,66-0.5

Laboratory ID: T163017-68

No Results Detected

Sample ID: COMP: B67,68-0.5

Laboratory ID: T163017-69

No Results Detected

Sample ID: COMP: B72,73-0.5

Laboratory ID: T163017-70

No Results Detected

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B55-0.5
T163017-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	54.4 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	45.1 %	35-140	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

B56-0.5
T163017-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		52.3 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		37.6 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

B57-0.5
T163017-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	5.8	5.0	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	22	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		49.3 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		34.9 %	35-140		"	"	"	"	S-GC

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B57-0.5
T163017-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6112816	11/28/16	11/30/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	20	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		74.3 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		75.1 %	35-140		"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

B58-0.5
T163017-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	6112238	11/22/16	11/28/16	EPA 8015C	
C13-C28 (DRO)	110	10	"	"	"	"	"	"	
C29-C40 (MORO)	170	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		89.0 %		65-135	"	"	"	"	

Metals by EPA 6010B

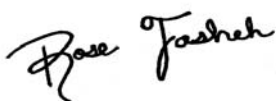
Arsenic	14	4.5	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	32	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
<i>Surrogate: Tetrachloro-meta-xylene</i>		53.9 %		35-140	"	"	"	"	
<i>Surrogate: Decachlorobiphenyl</i>		42.3 %		35-140	"	"	"	"	

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B58-0.5
T163017-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6112816	11/28/16	11/30/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		62.1 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		70.7 %	35-140		"	"	"	"	

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B59-0.5
T163017-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	5.0	5.0	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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B60-0.5
T163017-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B61-0.5
T163017-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	22	3.0	"	"	"	"	"	"	"

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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B62-0.5
T163017-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112821	11/28/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B63-0.5
T163017-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	4.6	4.5	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B64-0.5
T163017-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B65-0.5
T163017-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	4.8	4.5	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B66-0.5
T163017-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	5.0	5.0	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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B67-0.5
T163017-37 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



25712 Commercentre Drive
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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B68-0.5
T163017-40 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	45	2.7	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

B69-0.5
T163017-43 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	5.1	4.5	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene

51.6 % 35-140

"

"

"

"

Surrogate: Decachlorobiphenyl

42.7 % 35-140

"

"

"

"

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

B70-0.5
T163017-46 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		55.9 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		54.5 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B70-0.5
T163017-46 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6112816	11/28/16	11/30/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		70.8 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		77.7 %	35-140		"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

B71-0.5
T163017-49 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		66.6 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		52.1 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B72-0.5
T163017-52 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B73-0.5
T163017-55 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

B74-0.5
T163017-58 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	ND	2.7	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	

Surrogate: Tetrachloro-meta-xylene	53.8 %	35-140	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl	52.8 %	35-140	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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B74-0.5
T163017-58 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	6112816	11/28/16	11/30/16	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		69.9 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		77.6 %	35-140		"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

B75-0.5
T163017-61 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		55.9 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		54.5 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

B76-0.5
T163017-62 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	5.0	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Lead	ND	3.0	"	"	"	"	"	"	

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		55.2 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		55.8 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

DRUM
T163017-65 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	6112238	11/23/16	11/24/16	EPA 8015C	
C13-C28 (DRO)	150	10	"	"	"	"	"	"	
C29-C40 (MORO)	400	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		90.0 %	65-135		"	"	"	"	

Metals by EPA 6010B

Antimony	ND	2.5	mg/kg	1	6112823	11/28/16	11/30/16	EPA 6010B	
Silver	ND	1.7	"	"	"	"	"	"	
Arsenic	5.0	4.2	"	"	"	"	"	"	
Barium	140	0.83	"	"	"	"	"	"	
Beryllium	ND	0.83	"	"	"	"	"	"	
Cadmium	1.8	1.7	"	"	"	"	"	"	
Chromium	12	1.7	"	"	"	"	"	"	
Cobalt	24	1.7	"	"	"	"	"	"	
Copper	18	0.83	"	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	"	
Molybdenum	5.1	4.2	"	"	"	"	"	"	
Nickel	23	1.7	"	"	"	"	"	"	
Selenium	ND	4.2	"	"	"	"	"	"	
Thallium	ND	1.7	"	"	"	"	"	"	
Vanadium	33	4.2	"	"	"	"	"	"	
Zinc	13	0.83	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	6112827	11/28/16	11/30/16	EPA 7471A Soil	
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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

DRUM
T163017-65 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		50.0 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		58.3 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	6112333	11/23/16	11/24/16	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

DRUM
T163017-65 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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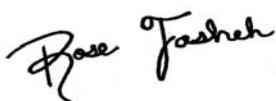
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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
tert-Butylbenzene	ND	5.0	ug/kg	1	6112333	11/23/16	11/24/16	EPA 8260B
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"
Chlorobenzene	ND	5.0	"	"	"	"	"	"
Chloroethane	ND	5.0	"	"	"	"	"	"
Chloroform	ND	5.0	"	"	"	"	"	"
Chloromethane	ND	5.0	"	"	"	"	"	"
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"
Dibromochloromethane	ND	5.0	"	"	"	"	"	"
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"
Dibromomethane	ND	5.0	"	"	"	"	"	"
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"
Isopropylbenzene	ND	5.0	"	"	"	"	"	"
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"
Methylene chloride	ND	5.0	"	"	"	"	"	"
Naphthalene	ND	5.0	"	"	"	"	"	"

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

DRUM
T163017-65 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

n-Propylbenzene	ND	5.0	ug/kg	1	6112333	11/23/16	11/24/16	EPA 8260B	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		115 %	95.7-135		"	"	"	"	
Surrogate: Toluene-d8		102 %	85.5-116		"	"	"	"	

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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COMP: B59,60,61-0.5
T163017-66 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		56.6 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		47.1 %		35-140	"	"	"	"	

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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COMP: B62,63,64-0.5
T163017-67 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		56.9 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		55.8 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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COMP: B65,66-0.5
T163017-68 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		57.0 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		57.3 %		35-140	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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COMP: B67,68-0.5
T163017-69 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		62.7 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		61.1 %		35-140	"	"	"	"	

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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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COMP: B72,73-0.5
T163017-70 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Organochlorine Pesticides by EPA Method 8081A

alpha-BHC	ND	5.0	ug/kg	1	6112319	11/23/16	11/29/16	EPA 8081A	
gamma-BHC (Lindane)	ND	5.0	"	"	"	"	"	"	
beta-BHC	ND	5.0	"	"	"	"	"	"	
delta-BHC	ND	5.0	"	"	"	"	"	"	
Heptachlor	ND	5.0	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
Heptachlor epoxide	ND	5.0	"	"	"	"	"	"	
gamma-Chlordane	ND	5.0	"	"	"	"	"	"	
alpha-Chlordane	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	5.0	"	"	"	"	"	"	
4,4'-DDE	ND	5.0	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endrin	ND	5.0	"	"	"	"	"	"	
4,4'-DDD	ND	5.0	"	"	"	"	"	"	
Endosulfan II	ND	5.0	"	"	"	"	"	"	
4,4'-DDT	ND	5.0	"	"	"	"	"	"	
Endrin aldehyde	ND	5.0	"	"	"	"	"	"	
Endosulfan sulfate	ND	5.0	"	"	"	"	"	"	
Methoxychlor	ND	10	"	"	"	"	"	"	
Endrin ketone	ND	5.0	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		53.1 %		35-140	"	"	"	"	
Surrogate: Decachlorobiphenyl		54.2 %		35-140	"	"	"	"	

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112238 - EPA 3550B GC

Blank (6112238-BLK1)

Prepared: 11/22/16 Analyzed: 11/23/16

C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	86.8		"	101		86.0	65-135			

LCS (6112238-BS1)

Prepared: 11/22/16 Analyzed: 11/23/16

C13-C28 (DRO)	540	10	mg/kg	505		107	75-125			
Surrogate: p-Terphenyl	89.8		"	101		88.9	65-135			

LCS Dup (6112238-BSD1)

Prepared: 11/22/16 Analyzed: 11/23/16

C13-C28 (DRO)	480	10	mg/kg	495		97.9	75-125	11.0	20	
Surrogate: p-Terphenyl	79.1		"	99.0		79.8	65-135			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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 Foothill Ranch CA, 92610

Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 12/01/16 10:11

Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112821 - EPA 3051

Blank (6112821-BLK1)

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	ND	5.0	mg/kg							
Lead	ND	3.0	"							

LCS (6112821-BS1)

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	94.2	5.0	mg/kg	100		94.2	75-125			
Lead	101	3.0	"	100		101	75-125			

Matrix Spike (6112821-MS1)

Source: T163016-47

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	70.9	5.0	mg/kg	100	3.98	66.9	75-125			QM-05
Lead	91.4	3.0	"	100	34.6	56.7	75-125			QM-05

Matrix Spike Dup (6112821-MSD1)

Source: T163016-47

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	83.3	5.0	mg/kg	100	3.98	79.3	75-125	16.2	20	
Lead	104	3.0	"	100	34.6	69.4	75-125	13.0	20	QM-05

Batch 6112823 - EPA 3051

Blank (6112823-BLK1)

Prepared: 11/28/16 Analyzed: 11/30/16

Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Lead	ND	3.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112823 - EPA 3051

LCS (6112823-BS1)

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	89.8	5.0	mg/kg	100		89.8	75-125			
Arsenic	89.8	5.0	"	100		89.8	75-125			
Barium	90.5	1.0	"	100		90.5	75-125			
Cadmium	91.8	2.0	"	100		91.8	75-125			
Chromium	90.2	2.0	"	100		90.2	75-125			
Lead	91.8	3.0	"	100		91.8	75-125			
Lead	91.8	3.0	"	100		91.8	75-125			

Matrix Spike (6112823-MS1)

Source: T163004-06

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	79.7	4.5	mg/kg	90.9	3.96	83.3	75-125			
Arsenic	79.7	4.5	"	90.9	3.96	83.3	75-125			
Barium	239	0.91	"	90.9	83.5	171	75-125			QM-05
Cadmium	77.0	1.8	"	90.9	0.026	84.6	75-125			
Chromium	83.6	1.8	"	90.9	8.96	82.1	75-125			
Lead	82.6	2.7	"	90.9	7.12	83.1	75-125			
Lead	82.6	2.7	"	90.9	7.12	83.1	75-125			

Matrix Spike Dup (6112823-MSD1)

Source: T163004-06

Prepared: 11/28/16 Analyzed: 11/30/16

Arsenic	82.4	5.0	mg/kg	100	3.96	78.5	75-125	3.35	20	
Arsenic	82.4	5.0	"	100	3.96	78.5	75-125	3.35	20	
Barium	223	1.0	"	100	83.5	140	75-125	7.02	20	QM-05
Cadmium	85.2	2.0	"	100	0.026	85.2	75-125	10.2	20	
Chromium	90.5	2.0	"	100	8.96	81.5	75-125	7.97	20	
Lead	87.5	3.0	"	100	7.12	80.4	75-125	5.77	20	
Lead	87.5	3.0	"	100	7.12	80.4	75-125	5.77	20	

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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/01/16 10:11
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Cold Vapor Extraction EPA 7470/7471 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112827 - EPA 7471A Soil

Blank (6112827-BLK1)		Prepared: 11/28/16 Analyzed: 11/30/16								
Mercury	ND	0.10	mg/kg							
LCS (6112827-BS1)		Prepared: 11/28/16 Analyzed: 11/30/16								
Mercury	0.310	0.10	mg/kg	0.368		84.3	75-125			
Matrix Spike (6112827-MS1)		Source: T163017-65		Prepared: 11/28/16 Analyzed: 11/30/16						
Mercury	0.318	0.10	mg/kg	0.362	0.0326	78.9	75-125			
Matrix Spike Dup (6112827-MSD1)		Source: T163017-65		Prepared: 11/28/16 Analyzed: 11/30/16						
Mercury	0.356	0.10	mg/kg	0.417	0.0326	77.5	75-125	11.1	20	

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Pinnacle Environmental Technologies
 2 Santa Maria
 Foothill Ranch CA, 92610

Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 12/01/16 10:11

Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112319 - EPA 3550 ECD/GCMS

Blank (6112319-BLK1)

Prepared: 11/23/16 Analyzed: 11/29/16

alpha-BHC	ND	5.0	ug/kg							
gamma-BHC (Lindane)	ND	5.0	"							
beta-BHC	ND	5.0	"							
delta-BHC	ND	5.0	"							
Heptachlor	ND	5.0	"							
Aldrin	ND	5.0	"							
Heptachlor epoxide	ND	5.0	"							
gamma-Chlordane	ND	5.0	"							
alpha-Chlordane	ND	5.0	"							
Endosulfan I	ND	5.0	"							
4,4'-DDE	ND	5.0	"							
Dieldrin	ND	5.0	"							
Endrin	ND	5.0	"							
4,4'-DDD	ND	5.0	"							
Endosulfan II	ND	5.0	"							
4,4'-DDT	ND	5.0	"							
Endrin aldehyde	ND	5.0	"							
Endosulfan sulfate	ND	5.0	"							
Methoxychlor	ND	10	"							
Endrin ketone	ND	5.0	"							
Toxaphene	ND	200	"							
Surrogate: Tetrachloro-meta-xylene	5.76		"	10.0		57.6	35-140			
Surrogate: Decachlorobiphenyl	6.82		"	10.0		68.2	35-140			

LCS (6112319-BS1)

Prepared: 11/23/16 Analyzed: 11/29/16

gamma-BHC (Lindane)	40.7	5.0	ug/kg	40.0		102	40-120			
Heptachlor	37.3	5.0	"	40.0		93.2	40-120			
Aldrin	37.2	5.0	"	40.0		93.1	40-120			
Dieldrin	42.5	5.0	"	40.0		106	40-120			
Endrin	41.5	5.0	"	40.0		104	40-120			
4,4'-DDT	17.4	5.0	"	40.0		43.4	33-147			
Surrogate: Tetrachloro-meta-xylene	9.01		"	10.0		90.1	35-140			
Surrogate: Decachlorobiphenyl	10.0		"	10.0		100	35-140			

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Organochlorine Pesticides by EPA Method 8081A - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112319 - EPA 3550 ECD/GCMS

LCS Dup (6112319-BSD1)

Prepared: 11/23/16 Analyzed: 11/29/16

gamma-BHC (Lindane)	31.3	5.0	ug/kg	40.0		78.4	40-120	26.0	30	
Heptachlor	25.8	5.0	"	40.0		64.6	40-120	36.3	30	QR-02
Aldrin	28.8	5.0	"	40.0		72.1	40-120	25.4	30	
Dieldrin	32.4	5.0	"	40.0		81.1	40-120	26.9	30	
Endrin	29.0	5.0	"	40.0		72.6	40-120	35.4	30	QR-02
4,4'-DDT	16.1	5.0	"	40.0		40.4	33-147	7.29	30	
Surrogate: Tetrachloro-meta-xylene	7.37		"	10.0		73.7	35-140			
Surrogate: Decachlorobiphenyl	8.13		"	10.0		81.3	35-140			

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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112816 - EPA 3550 ECD/GCMS

Blank (6112816-BLK1)

Prepared: 11/28/16 Analyzed: 11/30/16

PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	6.68		"	10.0		66.8	35-140			
Surrogate: Decachlorobiphenyl	8.32		"	10.0		83.2	35-140			

LCS (6112816-BS1)

Prepared: 11/28/16 Analyzed: 11/30/16

PCB-1016	97.4	10	ug/kg	100		97.4	40-130			
PCB-1260	68.4	10	"	100		68.4	40-130			
Surrogate: Tetrachloro-meta-xylene	6.98		"	10.0		69.8	35-140			
Surrogate: Decachlorobiphenyl	7.85		"	10.0		78.5	35-140			

LCS Dup (6112816-BSD1)

Prepared: 11/28/16 Analyzed: 11/30/16

PCB-1016	97.7	10	ug/kg	100		97.7	40-130	0.248	30	
PCB-1260	78.4	10	"	100		78.4	40-130	13.6	30	
Surrogate: Tetrachloro-meta-xylene	6.76		"	10.0		67.6	35-140			
Surrogate: Decachlorobiphenyl	7.99		"	10.0		79.9	35-140			

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Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 12/01/16 10:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112333 - EPA 5030 GCMS

Blank (6112333-BLK1)

Prepared: 11/23/16 Analyzed: 11/24/16

Bromobenzene	ND	5.0	ug/kg
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
n-Butylbenzene	ND	5.0	"
sec-Butylbenzene	ND	5.0	"
tert-Butylbenzene	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane (EDB)	ND	5.0	"
Dibromomethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,1-Dichloroethene	ND	5.0	"
cis-1,2-Dichloroethene	ND	5.0	"
trans-1,2-Dichloroethene	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
1,1-Dichloropropene	ND	5.0	"
cis-1,3-Dichloropropene	ND	5.0	"
trans-1,3-Dichloropropene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"

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Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 12/01/16 10:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112333 - EPA 5030 GCMS

Blank (6112333-BLK1)

Prepared: 11/23/16 Analyzed: 11/24/16

p-Isopropyltoluene	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Tert-amyl methyl ether	ND	20	"							
Tert-butyl alcohol	ND	50	"							
Di-isopropyl ether	ND	20	"							
Ethyl tert-butyl ether	ND	20	"							
Methyl tert-butyl ether	ND	20	"							
Surrogate: 4-Bromofluorobenzene	36.8		"	40.0		92.1	81.2-123			
Surrogate: Dibromofluoromethane	46.1		"	40.0		115	95.7-135			
Surrogate: Toluene-d8	42.7		"	40.0		107	85.5-116			

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Project: Grover Cleveland High School

Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 12/01/16 10:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6112333 - EPA 5030 GCMS

LCS (6112333-BS1)

Prepared: 11/23/16 Analyzed: 11/24/16

Chlorobenzene	82.9	5.0	ug/kg	99.4		83.4	75-125			
1,1-Dichloroethene	74.8	5.0	"	99.4		75.2	75-125			
Trichloroethene	78.2	5.0	"	99.4		78.6	75-125			
Benzene	93.2	5.0	"	99.4		93.8	75-125			
Toluene	77.7	5.0	"	99.4		78.2	75-125			
Surrogate: 4-Bromofluorobenzene	55.6		"	39.8		140	81.2-123			S-GC
Surrogate: Dibromofluoromethane	43.3		"	39.8		109	95.7-135			
Surrogate: Toluene-d8	48.1		"	39.8		121	85.5-116			S-GC

LCS Dup (6112333-BSD1)

Prepared: 11/23/16 Analyzed: 11/24/16

Chlorobenzene	82.4	5.0	ug/kg	99.6		82.8	75-125	0.583	20	
1,1-Dichloroethene	75.6	5.0	"	99.6		76.0	75-125	1.19	20	
Trichloroethene	80.2	5.0	"	99.6		80.5	75-125	2.52	20	
Benzene	88.9	5.0	"	99.6		89.2	75-125	4.77	20	
Toluene	79.7	5.0	"	99.6		80.0	75-125	2.54	20	
Surrogate: 4-Bromofluorobenzene	50.5		"	39.8		127	81.2-123			S-GC
Surrogate: Dibromofluoromethane	44.9		"	39.8		113	95.7-135			
Surrogate: Toluene-d8	46.0		"	39.8		116	85.5-116			

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Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/01/16 10:11

Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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CHAIN OF CUSTODY RECORD

3-DX4

Site: Gravel Cleverland High School Project Manager: MALVEY THOMPSON

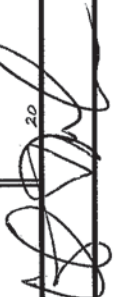

Address: 8140 VAN ARDEN AVE Sampled By: MALVEY THOMPSON

RESEDA, CA Laboratory: SWSTAT

NORM (RUSH)

EDF - YES (NO)

Page 9 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOE EPA 8270G <u>1992</u>	Pesticides PCB's EPA 8081/8082	Title 22 Metals	1,4-Dioxane EPA 8260M <u>0.5</u>
B54-1.5	01	1255	11/22	SOIL	J									
B54-2.5	02	1305	11/22											
B55-0.5	03	1315	11/22							X		X OCB only		X
B55-1.5	04	1325	11/22											
B55-2.5	05	1335	11/22							X		X OCB only		X
B56-0.5	06	1350	11/22							X		X		X
B57-0.5	07	950	11/22											
B57-1.5	08	1000	11/22											
B57-2.5	09	1010	11/22				X							
B58-0.5	10	1140	11/22											X
B58-1.5	11	1150	11/22											
B58-2.5	12	1155	11/22											
B59-0.5	13	925	11/21							X				X
B59-1.5	14	930	11/21											
B59-2.5	15	940	11/21											
B60-0.5	16	950	11/21											
B60-1.5	17	955	11/21							X		X OCB on composite of B59/60/61		X
B60-2.5	18	1005	11/21											
B61-0.5	19	1015	11/21											X
B61-1.5	20	1020	11/21											
Relinquished By: 	Date/Time: 11/24/16	Received By: 	Date/Time: 11/23/16 08:07	NOTES: 13.6 13.8										
Relinquished By:	Date/Time:	Received By:	Date/Time:											

CHAIN OF CUSTODY RECORD

3-DAY



Site: CROCKER CLEVELAND HIGH SCHOOL

Project Manager: MALVEY THOMPSON

NORM (RUSH)

Address: 8140 WAWARDER AVE

Sampled By: MALVEY THOMPSON

EDF - YES / NO

RESEDA CA

Laboratory: SUNSTAR

Page 10 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B Lead	SVOC EPA 8270C	Pesticides PCB's EPA 8081/8082	Title 22 Metals	I-4-Dioxane EPA 8260B
B61-2-J	21	1030	11/22	Soil	J									
B62-0.5	22	925	11/24							X				X
B62-1.5	23	955	11/21											
B62-2.5	24	1010	11/24							X				X
B63-0.5	25	1220	11/22											
B63-1.5	26	1230	11/22											
B63-2.5	27	1240	11/22							X				X
B64-0.5	28	1110	11/22											
B64-1.5	29	1120	11/22											
B64-2.5	30	1130	11/22							X				X
B65-0.5	31	825	11/22											
B65-1.5	32	830	11/22							X				X
B65-2.5	33	840	11/22											
B66-0.5	34	850	11/22							X				X
B66-1.5	35	855	11/22											
B66-2.5	36	905	11/22											
B67-0.5	37	915	11/22							X				X
B67-1.5	38	925	11/22											
B67-2.5	39	930	11/22											
B68-0.5	40	940	11/22							X				X
Relinquished By: <i>[Signature]</i>	Date/Time: 11/24/16	Received By: <i>[Signature]</i>	Date/Time: 11/23/16 08:07	NOTES: 13.6										
Relinquished By: <i>[Signature]</i>	Date/Time:	Received By:	Date/Time:											

3-DAY

CHAIN OF CUSTODY RECORD



Site: BEVER CLEVELAND HIGH SCHOOL Project Manager: MALVEY THOMPSON
 Address: 8140 URBANDEN AVE. Sampled By: MALVEY THOMPSON
RESEDA, CA Laboratory: SWSTAR

NORM (RUSH)
 EDF - YES (NO)
 Page 11 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270B Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	1,4-Dioxane EPA 8260BHT dioxin
B68-1.5	41	945	11/22	Soil	J									
B68-2.5	42	955	11/22											
B69-0.5	43	1505	11/22								X	X OCPs only		X
B69-1.5	44	1510	11/22											
B69-2.5	45	1520	11/22								X	X		X
B70-0.5	46	1530	11/22											
B70-1.5	47	1535	11/22											
B70-2.5	48	1545	11/22								X	X OCPs only		X
B71-0.5	49	1555	11/22											
B71-1.5	50	1600	11/22											
B71-2.5	51	1605	11/22								X	X OCPs only		X
B72-0.5	52	1400	11/22								X	X OCPs only		X
B72-1.5	53	1405	11/22											
B72-2.5	54	1420	11/22											
B73-0.5	55	1425	11/22											
B73-1.5	56	1430	11/22											
B73-2.5	57	1435	11/22											
B74-0.5	58	1300	11/22								X	X		X
B74-1.5	59	1305	11/22											
B74-2.5	60	1315	11/22											

Relinquished By: [Signature] Date/Time: 11/24
 Relinquished By: [Signature] Date/Time: 11/24
 Received By: [Signature] Date/Time: 11/23/16 08:07
 Received By: [Signature] Date/Time: 11/23

CHAIN OF CUSTODY RECORD

3-DAY



Site: GROVEL CLEVELAND HIGH SCHOOL Project Manager: MALVEY THOMPSON

Address: 8140 UNWARDEN AVE Sampled By: MALVEY THOMPSON


REEDA CA Laboratory: SUNSTAR

NORM (RUSH)

EDF - YES (NO)

Page 12 of 12


PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270A (lead)	Pesticides PCB's EPA 8081/8082	Title 22 Metals	1,4-Dioxane EPA 8260B/STPA Arsenic
B75-0.5	61	1505	4/22	Soil	J						X	X OCPs only		X
B75-														
B75-														
B76-0.5	62	1530	4/22								X	X OCPs only		X
B76-1.5	63	1535	4/22											
B76-2.5	64	1545	4/22				X		X			OCPs X 8081 only		
DRUM	65	1610	11/22											

Relinquished By: 

Relinquished By: _____

Date/Time: 4/24/16

Date/Time: _____

Received By: 

Received By: _____

Date/Time: 11/23/16 08:07

Date/Time: _____

NOTES: 12.6 13.8

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7168017

Client Name: PRIVACLE Project: GREYER CLEVELAND HIGH SCHOOL

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: BRIAN Date/Time Lab Received: 11-23-16 / 8:07

Total number of coolers received: 2

Temperature: Cooler #1	13.8	°C +/- the CF (- 0.2°C) =	13.6	°C corrected temperature
Temperature: Cooler #2	14.0	°C +/- the CF (- 0.2°C) =	13.8	°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If NO:				
Samples received on ice?	<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No →	Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable		<input type="checkbox"/> No →	Complete Non-Conformance Sheet

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: SL 11-23-16

Comments:

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # 7163017

- **COOLERS**
 - Not Received (received COC only)
 - Leaking/Damaged
 - Other:
- **CUSTODY SEALS**
 - None
 - Not Intact
- **TEMPERATURE (Temp criteria = $\leq 6^{\circ}\text{C}$)**
 - Cooler/Sample Temp(s)
 - Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
 - Not relinquished by client; No date/time relinquished
 - Incomplete information provided
 - COC not received – notify PM
- **CONTAINERS**
 - Leaking Broken
 - Extra Missing
- **LABELS**
 - Not the same sample ID / info as on the COC
 - Incomplete Information
 - Markings/Info illegible
- **SAMPLES**
 - Samples **NOT RECEIVED** but listed on COC
 - Samples received but **NOT LISTED** on COC
 - Logged based on Label Information and not COC
 - Logged according to Work Plan and not COC
 - Logged in, **ON HOLD** until further notice
 - Insufficient quantities for analysis
 - Improper container used
 - Mislabeled as to tests, preservatives, etc.
 - Holding time expired – list sample ID and test
 - Not preserved/Improper preservative used
 - Without Labels, no information on containers
 - Other

Comments: SAMPLES WERE NOT ON ICE WHEN RECEIVED

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

PEA EQUIVALENT SAMPLING TABLE
 Grover Cleveland Charter High School
 8410 Varalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses	
Building K (MPR and Lunch Pavilion)	Removal	Historical Agriculture	Targeted Perimeter	1	B1	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	4	
Utility Building	Removal	Historical Agriculture	Targeted Perimeter	1	B6	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	
Building L	Removal	Historical Agriculture	Targeted Perimeter	2	B8, B9	TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5'	2	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Asbestos and Lead				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Asbestos and Lead				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
Interceptor	Removal	Vessel/line releases	Targeted to potential release points	2	SV1, SV2 (soil vapor)	TPH (Full-Scan) - EPA Method 8015m	5', 10', 15'	2	
						VOCs - EPA Method 8260B	5', 10', 15'	2	
North Parking Lot	Removal, New Road	Historical Agriculture	Areal Coverage	2	B12, B13	Tile 22 Metals	5', 10', 15'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
Buildings A-810 to A-815, AA-1001, AA-1654, AA-1999, AA-962, AA-964	Removal	Historical Agriculture	Areal Coverage of Similar Structures	16	B14-B29	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Asbestos and Lead	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	16
Buildings C, H, J and P, Building AA-2366	Removal	Historical Agriculture	Targeted Perimeter	9	B30-B38	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	9	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	9
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	9
Access Road	Removal	Historical Agriculture	Composite to one sample for OCPs only	2	B39, B40	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
Access Road	Removal	Asbestos and Lead	Composite to one sample for OCPs only	2	B39, B40	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Transformers, Buildings C and P	Removal	potential PCBs in transformers	Targeted	2	B41, B42	PCBs - EPA Method 8082	0.5', 1.5', 2.5'	2
Tree wells south of Building J	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B43-B45	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Planters west of Chem Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B46, B47	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Chemistry Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	2	B48, B49	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Buildings AA-2199 and 2200, AA-3882 through AA-3887	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Areal Coverage of Similar Structures	8	B50-B57	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	8
Drain at storage locker	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead Hazmat storage	Targeted to potential release point	1	B58	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	1
Three lawn areas along access road	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B59-B61	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Access Road west of lawn areas	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B62-B64	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B65, B66	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B67, B68	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Buildings AA-2730 and A-751	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B69-B71	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B72, B73	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1
Buildings AA-3888 and AA-3889	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B74-B76	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3

Total Number of Borings 78
 Locations Requiring Coring 63

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 11/30/16 17:00 (3 day TAT)

Received By: Sunny Lounethone

Date Received: 11/23/16 08:07

Logged In By: Sunny Lounethone

Date Logged In: 11/23/16 10:00

Samples Received at: **13.6°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
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T163017-01 B54-1.5 [Soil] Sampled 11/22/16 12:55 (GMT-08:00) Pacific Time
(US &
[NO ANALYSES]

T163017-02 B54-2.5 [Soil] Sampled 11/22/16 13:05 (GMT-08:00) Pacific Time
(US &
[NO ANALYSES]

T163017-03 B55-0.5 [Soil] Sampled 11/22/16 13:15 (GMT-08:00) Pacific Time
(US &
 6010 Individual Metals 11/30/16 15:00 3 05/21/17 13:15 As, Pb only
 8081 Pesticides 11/30/16 15:00 3 12/06/16 13:15

T163017-04 B55-1.5 [Soil] Sampled 11/22/16 13:25 (GMT-08:00) Pacific Time
(US &
[NO ANALYSES]

T163017-05 B55-2.5 [Soil] Sampled 11/22/16 13:35 (GMT-08:00) Pacific Time
(US &
[NO ANALYSES]

T163017-06 B56-0.5 [Soil] Sampled 11/22/16 13:50 (GMT-08:00) Pacific Time
(US &
 6010 Individual Metals 11/30/16 15:00 3 05/21/17 13:50 As, Pb only
 8081 Pesticides 11/30/16 15:00 3 12/06/16 13:50

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-07 B57-0.5 [Soil] Sampled 11/22/16 09:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 09:50	
8082 PCB	11/30/16 15:00	3	12/06/16 09:50	
T163017-08 B57-1.5 [Soil] Sampled 11/22/16 10:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-09 B57-2.5 [Soil] Sampled 11/22/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-10 B58-0.5 [Soil] Sampled 11/22/16 11:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:40	As, Pb only
8015 Carbon Chain	11/30/16 15:00	3	12/06/16 11:40	
8081 Pesticides	11/30/16 15:00	3	12/06/16 11:40	
8082 PCB	11/30/16 15:00	3	12/06/16 11:40	
T163017-11 B58-1.5 [Soil] Sampled 11/22/16 11:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-12 B58-2.5 [Soil] Sampled 11/22/16 11:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-13 B59-0.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:25	As, Pb only
T163017-14 B59-1.5 [Soil] Sampled 11/21/16 09:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-15 B59-2.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-16 B60-0.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:50	As, Pb only
T163017-17 B60-1.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-18 B60-2.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-19 B61-0.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:15	As, Pb only
T163017-20 B61-1.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-21 B61-2.5 [Soil] Sampled 11/22/16 10:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-22 B62-0.5 [Soil] Sampled 11/21/16 09:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:45	As, Pb only
T163017-23 B62-1.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-24 B62-2.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-25 B63-0.5 [Soil] Sampled 11/22/16 12:20 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 12:20	As, Pb only
T163017-26 B63-1.5 [Soil] Sampled 11/22/16 12:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-27 B63-2.5 [Soil] Sampled 11/22/16 12:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-28 B64-0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
T163017-29 B64-1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-30 B64-2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-31 B65-0.5 [Soil] Sampled 11/22/16 08:25 (GMT-08:00) Pacific Time (US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 08:25	As, Pb only
T163017-32 B65-1.5 [Soil] Sampled 11/22/16 08:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-33 B65-2.5 [Soil] Sampled 11/22/16 08:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-34 B66-0.5 [Soil] Sampled 11/22/16 08:50 (GMT-08:00) Pacific Time (US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 08:50	As, Pb only
T163017-35 B66-1.5 [Soil] Sampled 11/22/16 08:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-36 B66-2.5 [Soil] Sampled 11/22/16 09:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-37 B67-0.5 [Soil] Sampled 11/22/16 09:15 (GMT-08:00) Pacific Time (US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 09:15	As, Pb only

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-38 B67-1.5 [Soil] Sampled 11/22/16 09:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-39 B67-2.5 [Soil] Sampled 11/22/16 09:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-40 B68-0.5 [Soil] Sampled 11/22/16 09:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:40	As, Pb only
T163017-41 B68-1.5 [Soil] Sampled 11/22/16 09:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-42 B68-2.5 [Soil] Sampled 11/22/16 09:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-43 B69-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:05	
T163017-44 B69-1.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-45 B69-2.5 [Soil] Sampled 11/22/16 15:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-46 B70-0.5 [Soil] Sampled 11/22/16 15:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:30	
8082 PCB	11/30/16 15:00	3	12/06/16 15:30	
T163017-47 B70-1.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-48 B70-2.5 [Soil] Sampled 11/22/16 15:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-49 B71-0.5 [Soil] Sampled 11/22/16 15:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:55	
T163017-50 B71-1.5 [Soil] Sampled 11/22/16 16:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-51 B71-2.5 [Soil] Sampled 11/22/16 16:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-52 B72-0.5 [Soil] Sampled 11/22/16 14:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:00	As, Pb only
T163017-53 B72-1.5 [Soil] Sampled 11/22/16 14:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-54 B72-2.5 [Soil] Sampled 11/22/16 14:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-55 B73-0.5 [Soil] Sampled 11/22/16 14:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:25	As, Pb only
T163017-56 B73-1.5 [Soil] Sampled 11/22/16 14:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-57 B73-2.5 [Soil] Sampled 11/22/16 14:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-58 B74-0.5 [Soil] Sampled 11/22/16 13:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:00	
8082 PCB	11/30/16 15:00	3	12/06/16 13:00	
T163017-59 B74-1.5 [Soil] Sampled 11/22/16 13:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-60 B74-2.5 [Soil] Sampled 11/22/16 13:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-61 B75-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:05	
T163017-62 B76-0.5 [Soil] Sampled 11/22/16 15:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:30	
T163017-63 B76-1.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-64 B76-2.5 [Soil] Sampled 11/22/16 15:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-65 DRUM [Soil] Sampled 11/22/16 16:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	11/30/16 15:00	3	05/21/17 16:10	
8015 Carbon Chain	11/30/16 15:00	3	12/06/16 16:10	
8081 Pesticides	11/30/16 15:00	3	12/06/16 16:10	
8260	11/30/16 15:00	3	12/06/16 16:10	+ OXY
T163017-66 COMP: B59,60,61-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 3:1

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies **Project Manager: Rose Fasheh**
Project: Grover Cleveland High School **Project Number: [none]**

Analysis	Due	TAT	Expires	Comments
T163017-67 COMP: B62,63,64-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US & 8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 3:1
T163017-68 COMP: B65,66-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US & 8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 2:1
T163017-69 COMP: B67,68-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US & 8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 2:1
T163017-70 COMP: B72,73-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US & 8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 2:1

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg



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07 December 2016

Keith Thompson
Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch, CA 92610
RE: Grover Cleveland High School

Enclosed are the results of analyses for samples received by the laboratory on 11/23/16 08:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh
Project Manager



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949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/07/16 16:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B7-1.5	T163015-20	Soil	11/21/16 11:35	11/23/16 08:07
B10-0.5	T163015-28	Soil	11/22/16 16:10	11/23/16 08:07
B10-1.5	T163015-29	Soil	11/22/16 16:20	11/23/16 08:07
B37- 0.5	T163016-29	Soil	11/21/16 13:35	11/23/16 08:07
B37- 1.5	T163016-30	Soil	11/21/16 13:45	11/23/16 08:07
B54-1.5	T163017-01	Soil	11/22/16 12:55	11/23/16 08:07
B58-1.5	T163017-11	Soil	11/22/16 11:50	11/23/16 08:07

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/07/16 16:03

DETECTIONS SUMMARY

Sample ID: B7-1.5 **Laboratory ID:** T163015-20

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	35	3.0		mg/kg	EPA 6010B	

Sample ID: B10-0.5 **Laboratory ID:** T163015-28

No Results Detected

Sample ID: B10-1.5 **Laboratory ID:** T163015-29

No Results Detected

Sample ID: B37- 0.5 **Laboratory ID:** T163016-29

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	6.6	0.10		mg/l	STLC Waste Extraction 1	

Sample ID: B37- 1.5 **Laboratory ID:** T163016-30

No Results Detected

Sample ID: B54-1.5 **Laboratory ID:** T163017-01

No Results Detected

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/07/16 16:03

Sample ID: B58-1.5

Laboratory ID: T163017-11

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	18	5.0		mg/kg	EPA 6010B	

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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/07/16 16:03
--	--	------------------------------------

B7-1.5
T163015-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	35	3.0	mg/kg	1	6120218	12/02/16	12/02/16	EPA 6010B	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/07/16 16:03
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B10-0.5
T163015-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Arsenic	ND	5.0	mg/l	1	6120229	12/02/16	12/07/16	STLC Waste Extraction Test	
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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/07/16 16:03
--	--	------------------------------------

B10-1.5
T163015-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6120218	12/02/16	12/02/16	EPA 6010B	
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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/07/16 16:03
--	--	------------------------------------

B37- 0.5
T163016-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	6.6	0.10	mg/l	1	6120229	12/02/16	12/07/16	STLC Waste Extraction Test	

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/07/16 16:03
--	--	------------------------------------

B37- 1.5
T163016-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	3.0	mg/kg	1	6120218	12/02/16	12/02/16	EPA 6010B	
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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/07/16 16:03
--	--	------------------------------------

B54-1.5
T163017-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	2.7	mg/kg	1	6120218	12/02/16	12/02/16	EPA 6010B	
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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/07/16 16:03
--	--	------------------------------------

B58-1.5
T163017-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	18	5.0	mg/kg	1	6120218	12/02/16	12/02/16	EPA 6010B	
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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/07/16 16:03
--	--	-----------------------------

Metals by EPA 6010B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6120218 - EPA 3051

Blank (6120218-BLK1) Prepared & Analyzed: 12/02/16

Arsenic	ND	5.0	mg/kg							
Lead	ND	3.0	"							

LCS (6120218-BS1) Prepared & Analyzed: 12/02/16

Arsenic	100	5.0	mg/kg	100	100	75-125				
Barium	98.3	1.0	"	100	98.3	75-125				
Cadmium	97.3	2.0	"	100	97.3	75-125				
Chromium	97.8	2.0	"	100	97.8	75-125				
Lead	98.2	3.0	"	100	98.2	75-125				
Lead	98.2	3.0	"	100	98.2	75-125				

Matrix Spike (6120218-MS1) Source: T163084-01 Prepared & Analyzed: 12/02/16

Arsenic	105	5.0	mg/kg	100	3.94	101	75-125			
Barium	245	1.0	"	100	144	102	75-125			
Cadmium	99.6	2.0	"	100	0.390	99.2	75-125			
Chromium	119	2.0	"	100	18.6	101	75-125			
Lead	101	3.0	"	100	7.11	93.4	75-125			
Lead	101	3.0	"	100	7.11	93.4	75-125			

Matrix Spike Dup (6120218-MSD1) Source: T163084-01 Prepared & Analyzed: 12/02/16

Arsenic	87.3	4.2	mg/kg	83.3	3.94	100	75-125	18.6	20	
Barium	231	0.83	"	83.3	144	105	75-125	6.07	20	
Cadmium	82.6	1.7	"	83.3	0.390	98.7	75-125	18.6	20	
Chromium	100	1.7	"	83.3	18.6	98.2	75-125	17.3	20	
Lead	85.9	2.5	"	83.3	7.11	94.6	75-125	15.7	20	
Lead	85.9	2.5	"	83.3	7.11	94.6	75-125	15.7	20	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies
 2 Santa Maria
 Foothill Ranch CA, 92610

Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 12/07/16 16:03

STLC Metals by 6000/7000 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6120229 - STLC Metals

Blank (6120229-BLK1)

Prepared: 12/02/16 Analyzed: 12/07/16

Arsenic	ND	5.0	mg/l							
Lead	ND	0.10	"							

LCS (6120229-BS1)

Prepared: 12/02/16 Analyzed: 12/07/16

Arsenic	11.0	5.0	mg/l	10.0		110	85-125			
Lead	9.93	0.10	"	10.0		99.3	75-125			

Matrix Spike (6120229-MS1)

Source: T163015-28

Prepared: 12/02/16 Analyzed: 12/07/16

Arsenic	13.3	5.0	mg/l	10.0	1.73	116	85-125			
Lead	10.8	0.10	"	10.0	0.444	104	75-125			

Matrix Spike Dup (6120229-MSD1)

Source: T163015-28

Prepared: 12/02/16 Analyzed: 12/07/16

Arsenic	11.3	5.0	mg/l	10.0	1.73	96.0	85-125	16.2	20	
Lead	9.26	0.10	"	10.0	0.444	88.2	75-125	15.6	30	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/07/16 16:03

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

CHAIN OF CUSTODY RECORD

7/63015

3-DAY



Site: Power Cleanlands High School Project Manager: MALVEY THOMPSON

Address: 8140 VAN ALDEN AVE.

Sampled By: MALVEY THOMPSON

RESEDA, CA

Laboratory: Sunstar

NORM (RUSH) EDF - YES (NO)

Page 1 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (Encore)	TPH EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	Lead SVOC EPA 8270C (a,b,d)	Pesticides PCB's EPA 8081/8082	Title 22 Metals	AD-5010 EPA 8260SM (a,b,d)
B1-0.5	01	1500	11/22	SOIL	J									X
B1-1.5	02	1505	11/22											
B1-2.5	03	1510	11/22											
B2-0.5	04	1400	11/21											X
B2-1.5	05	1410	11/21											
B2-2.5	06	1415	11/21											
B3-0.5	07	1430	11/21											X
B3-1.5	08	1435	11/21											
B3-2.5	09	1440	11/21											
B4-0.5	10	1010	11/21											X
B4-1.5	11	1020	11/21											
B4-2.5	12	1030	11/21											
B5-0.5	13	1045	11/21											X
B5-1.5	14	1055	11/21											
B5-2.5	15	1105	11/21											
B6-0.5	16	1505	11/22											X
B6-1.5	17	1515	11/22											
B6-2.5	18	1525	11/22											
B7-0.5	19	1125	11/21											X
B7-1.5	20	1135	11/21											X
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/23/16</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/16 08:07</u>		NOTES: <u>18.6</u>						

CHAIN OF CUSTODY RECORD

7163015

3-DAY



Site: SENIOR CENTER AND HIGH SCHOOL **Project Manager:** MALVEY THOMPSON
Address: 8140 VAN HEDDEN AVE. **Sampled By:** MALVEY THOMPSON
Laboratory: RESEDA CA **Swu STAR**

NORM/RUSH
EDF - YES/NO

Page 2 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	STP EPA 8230C Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	4-Dioxane EPA 8260SIM ARSENIC
B7-2.5	21	1145	11/24	Soil	J									
B8-0.5	22	1510	11/22								X	X occ only	X	
B8-1.5	22	1515	11/22											
B8-2.5	24	1525	11/22											
B9-0.5	25	1535	11/22								X	X occ only	X	
B9-1.5	26	1540	11/22											
B9-2.5	27	1550	11/22											
B10-0.5	28	1610	11/22								X	X occ only	X	
B10-1.5	29	1620	11/22											
B10-2.5	30	1630	11/22											
B11-0.5	31	1540	11/22								X	X occ only	X	
B11-1.5	32	1550	11/22											
B11-2.5	33	1600	11/22											
B12-0.5	34	815	11/24								X	X occ only	X	
B12-1.5	35	825	11/24											
B12-2.5	36	835	11/24											
B13-0.5	37	850	11/24								X	X	X	
B13-1.5	38	900	11/24											
B13-2.5	39	910	11/24								X	X	X	
B14-0.5	40	925	11/24								X	X	X	
Relinquished By: <i>[Signature]</i>		Date/Time: 11/23/16		Received By: <i>[Signature]</i>		Date/Time: 11/23/16		Date/Time: 11/23/16		Date/Time: 8:07		NOTES: 13.6		

CHAIN OF CUSTODY RECORD

3-DAY



Site: SEWER CREEK AND HIGH SCHOOL PROJECT MANAGER:
Address: 8140 VAWATUBAN AVE.
Reseda, CA
Sampled By: MALVEY THOMPSON
 MALVEY THOMPSON
Laboratory: SWUSTAR

Page 3 **of** 12
EDF - YES / NO
 YES NO
14-DAY
 YES NO

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J-Tube T = Tube V = VOA	EPA 5035 (Encore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8260A Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	14-DAY EPA 8260A ARSENIC
B14-1.5	41	940	11/24	Soil	J									
B14-2.5	42	950	11/24											
B15-0.5	42	1005	11/24											
B15-1.5	44	1015	11/27											
B15-2.5	45	1025	11/21											
B16-0.5	46	1405	11/22											
B16-1.5	47	1415	11/22											
B16-2.5	48	1425	11/22											
B17-0.5	49	955	11/21											
B17-1.5	50	1005	11/21											
B17-2.5	51	1015	11/21											
B18-0.5	52	840	11/21											
B18-1.5	53	850	11/21											
B18-2.5	54	900	11/21											
B19-0.5	55	915	11/21											
B19-1.5	56	925	11/21											
B19-2.5	57	940	11/21											
B20-0.5	58	1310	11/21											
B20-1.5	59	1320	11/21											
B20-2.5	59	1330	11/21											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/23</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/16 08:07</u>		NOTES: <u>13.6</u>						

7/6/2015

CHAIN OF CUSTODY RECORD

7/63015

3-044



Site: GENERAL CENTER AND HIGH SCHOOL MALVEY THOMPSON
Address: 8140 WILKINSON AVE. MALVEY THOMPSON
City: RESEDA, CA **State:** CA
Project Manager: _____ **Sampled By:** _____
Laboratory: SUNSTAR

Page 4 **of** 12
EDF - YES (NO)
NORM (RUSH)

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/W/O EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SWPC EPA 8270F Lead	Pesticides EPA 8081/8082	Title 22 Metals	1,4-Dioxane EPA 8260B Arsenic
B21-0.5	61	1340	11/21	Soil	J						X			X
B21-1.5	62	1350	11/21											
B21-2.5	63	1400	11/21											
B22-0.5	64	1450	11/21								X			X
B22-1.5	65	1455	11/21											
B22-2.5	66	1505	11/21											
B23-0.5	67	1030	11/21								X			X
B23-1.5	68	1040	11/21											
B23-2.5	69	1050	11/21											
B24-0.5	70	1410	11/21								X			X
B24-1.5	71	1420	11/21											
B24-2.5	72	1430	11/21											
B25-0.5	73	1190	11/21								X			X
B25-1.5	74	1105	11/21											
B25-2.5	75	1115	11/21											
B26-0.5	76	1125	11/21								X			X
B26-1.5	77	1135	11/21											
B26-2.5	78	1180	11/21								X			X
B27-0.5	79	905	11/22											
B27-1.5	80	755	11/22											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/23</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/16</u>		Date/Time: <u>08:07</u>		NOTES: <u>13.6</u>				



SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T162015

Client Name: Pinnacle Project: GROVER CLEVELAND HIGH SCHOOL

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: BELAN Date/Time Lab Received: 11-23-16 / 8:57

Total number of coolers received: 2

Temperature: Cooler #1	13.8	°C +/- the CF (- 0.2°C) =	13.6	°C corrected temperature
Temperature: Cooler #2	14.2	°C +/- the CF (- 0.2°C) =	14.0	°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If NO:				
Samples received on ice?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No → Complete Non-Conformance Sheet		
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet		

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: SL 11-23-16

Comments:

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # 7163015

- **COOLERS**
 - Not Received (received COC only)
 - Leaking/Damaged
 - Other:
- **CUSTODY SEALS**
 - None
 - Not Intact
- **TEMPERATURE (Temp criteria = $\leq 6^{\circ}\text{C}$)**
 - Cooler/Sample Temp(s)
 - Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
 - Not relinquished by client; No date/time relinquished
 - Incomplete information provided
 - COC not received – notify PM
- **CONTAINERS**
 - Leaking Broken
 - Extra Missing
- **LABELS**
 - Not the same sample ID / info as on the COC
 - Incomplete Information
 - Markings/Info illegible
- **SAMPLES**
 - Samples **NOT RECEIVED** but listed on COC
 - Samples received but **NOT LISTED** on COC
 - Logged based on Label Information and not COC
 - Logged according to Work Plan and not COC
 - Logged in, **ON HOLD** until further notice
 - Insufficient quantities for analysis
 - Improper container used
 - Mislabeled as to tests, preservatives, etc.
 - Holding time expired – list sample ID and test
 - Not preserved/Improper preservative used
 - Without Labels, no information on containers
 - Other

Comments: SAMPLES WERE NOT ON ICE WHEN RECEIVED

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

PEA EQUIVALENT SAMPLING TABLE
 Grover Cleveland Charter High School
 8410 Varalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses	
Building K (MPR and Lunch Pavilion)	Removal	Historical Agriculture	Targeted Perimeter	1	B1	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	4	
Utility Building	Removal	Historical Agriculture	Targeted Perimeter	1	B6	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	
Building L	Removal	Historical Agriculture	Targeted Perimeter	2	B8, B9	TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5'	2	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
Interceptor	Removal	Vessel/line releases	Targeted to potential release points	2	SV1, SV2 (soil vapor)	TPH (Full-Scan) - EPA Method 8015m	5', 10', 15'	2	
						VOCs - EPA Method 8260B	5', 10', 15'	2	
North Parking Lot	Removal, New Road	Historical Agriculture	Areal Coverage	2	B12, B13	Tile 22 Metals	5', 10', 15'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
Buildings A-810 to A-815, AA-1001, AA-1654, AA-1999, AA-962, AA-964	Removal	Historical Agriculture	Areal Coverage of Similar Structures	16	B14-B29	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Historical Agriculture	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Historical Pesticides	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	16
Buildings C, H, J and P, Building AA-2366	Removal	Historical Agriculture	Targeted Perimeter	9	B30-B38	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	9	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	9
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	9
Access Road	Removal	Historical Agriculture	Composite to one sample for OCPs only	2	B39, B40	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
Access Road	Removal	Asbestos and Lead		2	B39, B40	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	
						Asbestos and Lead			

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Transformers, Buildings C and P	Removal	potential PCBs in transformers	Targeted	2	B41, B42	PCBs - EPA Method 8082	0.5', 1.5', 2.5'	2
Tree wells south of Building J	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B43-B45	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Planters west of Chem Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B46, B47	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Chemistry Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	2	B48, B49	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Buildings AA-2199 and 2200, AA-3882 through AA-3887	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Areal Coverage of Similar Structures	8	B50-B57	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	8
Drain at storage locker	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead Hazmat storage	Targeted to potential release point	1	B58	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	1
Three lawn areas along access road	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B59-B61	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Access Road west of lawn areas	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B62-B64	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B65, B66	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B67, B68	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Buildings AA-2730 and A-751	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B69-B71	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B72, B73	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1
Buildings AA-3888 and AA-3889	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B74-B76	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3

Total Number of Borings 78
 Locations Requiring Coring 63

CHAIN OF CUSTODY RECORD

3-DAY



Site: GRAVER CLEARLAND HIGH SCHOOL
 Address: 8140 VANDERBILT AVE.

Project Manager: MALVEY THOMPSON
 Sampled By: MALVEY THOMPSON

Reseda CA 91301
 Laboratory: SUNSTAR

NORM / RUSH
 EDF - YES NO
 Page 5 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SYOG EPA 8270C Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	14-Benzenes EPA 8260M Residue
B28-0.5	01	815	11/21	Soil	J									
B28-1.5	02	825	11/21											
B28-2.5	03	840	11/21											
B29-0.5	04	855	11/21											
B29-1.5	05	905	11/21											
B29-2.5	06	920	11/21											
B27-2.5	07	805	11/22											
B30-0.5	08	930	11/21											
B30-1.5	09	935	11/21											
B30-2.5	10	950	11/21											
B31-0.5	11	1000	11/21											
B31-1.5	12	1010	11/21											
B31-2.5	13	1020	11/21											
B32-0.5	14	1030	11/21											
B32-1.5	15	1040	11/21											
B32-2.5	16	1050	11/21											
B33-0.5	17	1105	11/21											
B33-1.5	18	1110	11/21											
B33-2.5	19	1120	11/21											
B34-0.5	20	1000	11/22											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/23</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/16 08:07</u>		NOTES:						

CHAIN OF CUSTODY RECORD

3-DH



Site: GRAVER-CLEVERLAND HIGH SCHOOL MALVEY THOMPSON
Address: 8140 VALLEJO AVE. MALVEY THOMPSON
Project Manager: _____
Sampled By: _____
Laboratory: RESEDA CA T163016 SWISTER

NORM (RUSH)
EDF - YES (NO)
Page 6 **of** 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8260B	Pesticides PCBs EPA 8081/8082	Title 22 Metals	1,4-Dioxane EPA 8260B	Arsenic
B34-1.5	21	1010	11/22	Soil	J										
B34-2.5	22	1020	11/22												
B35-0.5	23	1510	11/21												
B35-1.5	24	1520	11/21												
B35-2.5	25	1530	11/21												
B36-0.5	26	1510	11/22												
B36-1.5	27	1515	11/22												
B36-2.5	28	1525	11/22												
B37-0.5	29	1335	11/21												
B37-1.5	30	1345	11/21												
B37-2.5	31	1400	11/21												
B38-0.5	32	1305	11/21												
B38-1.5	33	1310	11/21												
B38-2.5	34	1320	11/21												
B39-0.5	35	1410	11/22												
B39-1.5	36	1420	11/22												
B39-2.5	37	1430	11/22												
B40-0.5	38	1110	11/22												
B40-1.5	39	1120	11/22												
B40-2.5	40	1130	11/22												
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/23/16</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/16</u>		Date/Time: <u>11/23/16</u>		Date/Time: <u>11/23/16</u>		Date/Time: <u>11/23/16</u>		Date/Time: <u>11/23/16</u>	
NOTES:															

CHAIN OF CUSTODY RECORD

3-044



Site: Graver Cleveand High School Project Manager: MALVEY THOMPSON
 Address: 8140 VANDERBEN AVE Sampled By: MALVEY THOMPSON
RESEDA CA 91326 Laboratory: SUNSTAR

NORM (RUSH)
 EDF - YES (NO)

Page 7 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270 Lead	Pesticides PCBs EPA 8081/8082	Title 22 Metals	Lab EPA-8210M EPA-8211M EPA-8212M
B41-0.5	41	1040	11/22	Soil	J								X PCBs only	
B41-1.5	42	1045	11/22											
B41-2.5	43	1055	11/22											
B42-0.5	44	1205	11/22										X PCBs only	
B42-1.5	45	1215	11/22											
B42-2.5	46	1225	11/22											
B43-0.5	47	905	11/21										X	
B43-1.5	48	810	11/21											
B43-2.5	49	820	11/21										X PCBs composites	
B44-0.5	50	830	11/21										X B43, 44, 45 95	
B44-1.5	51	835	11/21											
B44-2.5	52	845	11/21											
B45-0.5	53	855	11/21										X	
B45-1.5	54	905	11/21											
B45-2.5	55	915	11/21											
B46-0.5	56	810	11/21										X PCBs composites	
B46-1.5	57	815	11/21											
B46-2.5	58	830	11/21										X B46, 47-0.5	
B47-0.5	59	840	11/21										X	
B47-1.5	60	845	11/21											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/23/10</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/10 08:07</u>		NOTES:						

CHAIN OF CUSTODY RECORD

3-DAY



Site: GRAVER CLEVELAND HIGH SCHOOL
 Address: 8140 VAN ALDER AVE

Project Manager: MALVEY THOMPSON
 Sampled By: MALVEY THOMPSON

NORM (RUSH)
 EDF - YES (NO)

RES EDA CA 7163016

Laboratory: SWITZER

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PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (Encore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270B <i>Lead</i>	Pesticides PCB's EPA 8081/8082	Title 22 Metals	Lab Storage EPA 8260SM 42520C
B47-2.5	61	855	11/21	Soil	J									
B48-0.5	62	655	11/22											
B48-1.5	63	705	11/22											
B48-2.5	64	715	11/22											
B49-0.5	65	725	11/22											
B49-1.5	66	735	11/22											
B49-2.5	67	745	11/22											
B50-0.5	68	745	11/22											
B50-1.5	69	1455	11/22											
B50-2.5	70	1505	11/22											
B51-0.5	71	1110	11/22											
B51-1.5	72	1120	11/22											
B51-2.5	73	1130	11/22											
B52-0.5	74	930	11/22											
B52-1.5	75	940	11/22											
B52-2.5	76	950	11/22											
B53-0.5	77	800	11/22											
B53-1.5	78	805	11/22											
B53-2.5	79	815	11/22											
B54-0.5	80	1250	11/22											

Relinquished By: *[Signature]*

Date/Time: 11/24/16

Received By: *[Signature]*

Date/Time: 11/23/16 08:07

NOTES:

[Handwritten notes in table cells]

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T163016

Client Name: PINNACLE Project: GROUPER CLEVELAND HS.

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: BRIAN Date/Time Lab Received: 11-23-16 8:07

Total number of coolers received:

Temperature: Cooler #1	13.5	°C +/- the CF (- 0.2°C) =	13.3	°C corrected temperature
Temperature: Cooler #2		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
If NO:				
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet		
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet		

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: BC 11-23-16

Comments:

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # _____

▪ **COOLERS**

- Not Received (received COC only)
- Leaking/Damaged
- Other:

▪ **CUSTODY SEALS**

- None
- Not Intact

▪ **TEMPERATURE (Temp criteria = $\leq 6^{\circ}\text{C}$)**

- Cooler/Sample Temp(s)
- Temperature Blank(s)

▪ **CHAIN OF CUSTODY (COC)**

- Not relinquished by client; No date/time relinquished
- Incomplete information provided
- COC not received – notify PM

▪ **CONTAINERS**

- Leaking Broken
- Extra Missing

▪ **LABELS**

- Not the same sample ID / info as on the COC
- Incomplete Information
- Markings/Info illegible

▪ **SAMPLES**

- Samples **NOT RECEIVED** but listed on COC
- Samples received but **NOT LISTED** on COC
- Logged based on Label Information and not COC
- Logged according to Work Plan and not COC
- Logged in, **ON HOLD** until further notice
- Insufficient quantities for analysis
- Improper container used
- Mislabeled as to tests, preservatives, etc.
- Holding time expired – list sample ID and test
- Not preserved/Improper preservative used
- Without Labels, no information on containers
- Other

Comments: TWO SAMPLE JARS ARE MISSING # 60 B47-1.5 , # 61 B47-2.5

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction																				Preser.
VOA																				

PEA EQUIVALENT SAMPLING TABLE
 Grover Cleveland Charter High School
 8410 Varalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses	
Building K (MPR and Lunch Pavilion)	Removal	Historical Agriculture	Targeted Perimeter	1	B1	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	4	
Utility Building	Removal	Historical Agriculture	Targeted Perimeter	1	B6	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020		1	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	
Building L	Removal	Historical Agriculture	Targeted Perimeter	2	B8, B9	TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5'	2	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Asbestos and Lead				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Asbestos and Lead				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
Interceptor	Removal	Vessel/line releases	Targeted to potential release points	2	SV1, SV2 (soil vapor)	TPH (Full-Scan) - EPA Method 8015m	5', 10', 15'	2	
						VOCs - EPA Method 8260B	5', 10', 15'	2	
North Parking Lot	Removal, New Road	Historical Agriculture	Areal Coverage	2	B12, B13	Tile 22 Metals	5', 10', 15'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
Buildings A-810 to A-815, AA-1001, AA-1654, AA-1999, AA-962, AA-964	Removal	Historical Agriculture	Areal Coverage of Similar Structures	16	B14-B29	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Asbestos and Lead	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	16
Buildings C, H, J and P, Building AA-2366	Removal	Historical Agriculture	Targeted Perimeter	9	B30-B38	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	9	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	9
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	9
Access Road	Removal	Historical Agriculture	Composite to one sample for OCPs only	2	B39, B40	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
		Asbestos and Lead				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Transformers, Buildings C and P	Removal	potential PCBs in transformers	Targeted	2	B41, B42	PCBs - EPA Method 8082	0.5', 1.5', 2.5'	2
Tree wells south of Building J	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B43-B45	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Planters west of Chem Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B46, B47	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Chemistry Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	2	B48, B49	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Buildings AA-2199 and 2200, AA-3882 through AA-3887	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Areal Coverage of Similar Structures	8	B50-B57	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	8
Drain at storage locker	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead Hazmat storage	Targeted to potential release point	1	B58	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	1
Three lawn areas along access road	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B59-B61	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Access Road west of lawn areas	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B62-B64	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B65, B66	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B67, B68	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Buildings AA-2730 and A-751	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B69-B71	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B72, B73	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1
Buildings AA-3888 and AA-3889	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B74-B76	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3

Total Number of Borings 78
 Locations Requiring Coring 63

CHAIN OF CUSTODY RECORD

3-244



Site: Graver Elementary and High School Project Manager: MALVEY THOMPSON
 Address: 8140 VANANDERBEN AVE Sampled By: MALVEY THOMPSON
 Laboratory: RESEDA, CA Laboratory: SWUSTAR

NORM (RUSH) EDF - YES (NO)

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PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (Encore)	TPH EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SWDE EPA 62799 Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	1,4-Dioxane EPA 8260M
B54-1.5	01	1255	11/22	Soil	J									
B54-2.5	02	1305	11/22											
B55-0.5	03	1315	11/22											
B55-1.5	04	1325	11/22											
B55-2.5	05	1335	11/22											
B56-0.5	06	1350	11/22											
B57-0.5	07	950	11/22											
B57-1.5	08	1000	11/22											
B57-2.5	09	1010	11/22											
B58-0.5	10	1140	11/22				X							
B58-1.5	11	1150	11/22											
B58-2.5	12	1155	11/22											
B59-0.5	13	925	11/24											
B59-1.5	14	930	11/24											
B59-2.5	15	940	11/24											
B60-0.5	16	950	11/24											
B60-1.5	17	955	11/24											
B60-2.5	18	1005	11/24											
B61-0.5	19	1015	11/24											
B61-1.5	20	1020	11/24											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/24/16</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/16</u>		Date/Time: <u>08-27</u>		NOTES: <u>13.6</u>		Date/Time: <u>13.8</u>		

CHAIN OF CUSTODY RECORD

7/63017

2-244



Site: Graber Cleveland High School Project Manager: MALVEY THOMPSON
 Address: 8140 WARDERS AVE Sampled By: MALVEY THOMPSON
 Laboratory: RESERVA CA

Laboratory: SWUSTAR

NORM (RUSH) EDF - YES / NO

Page 10 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (Encore)	TPH EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270C	Pesticides PCB's EPA 8081/8082	Title 22 Metals	14-Dioxane EPA 8260B/K1
B61-2.5	21	1030	11/22	Soil	J									
B62-0.5	22	985	11/24							X				X
B62-1.5	23	955	11/21											
B62-2.5	24	D10	11/24											
B63-0.5	25	1220	11/22							X				X
B63-1.5	26	1230	11/22											
B63-2.5	27	1240	11/22											
B64-0.5	28	1110	11/22							X				X
B64-1.5	29	1120	11/22											
B64-2.5	30	1130	11/22											
B65-0.5	31	825	11/22							X				X
B65-1.5	32	830	11/22											
B65-2.5	33	840	11/22											
B66-0.5	34	850	11/22							X				X
B66-1.5	35	855	11/22											
B66-2.5	36	905	11/22											
B67-0.5	37	915	11/22											
B67-1.5	38	925	11/22											
B67-2.5	39	930	11/22											
B68-0.5	40	940	11/22							X				X

Relinquished By: *[Signature]*

Date/Time: 11/24/16

Received By: *[Signature]*

Date/Time: 11/23/16 08:07

NOTES: 13.6 13.8

CHAIN OF CUSTODY RECORD

7163417

3-WY



Site: Beaver Cleveand High School MALVEY THOMPSON
Address: 8146 VAUARDEN AVE. MALVEY THOMPSON
Project Manager: _____
Sampled By: _____
Laboratory: RESEDA, CA SWUSTAR

NORM RUSH
EDF - YES (NO)

Page 11 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (Encore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270B Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	1,4-Dioxane EPA 8260B AT 2011C
B68-1.5	41	945	4/22	Soil	J									
B68-2.5	42	955	4/22											
B69-0.5	43	1505	4/22								X		X	
B69-1.5	44	1510	4/22										X	
B69-2.5	45	1520	4/22										X	
B70-0.5	46	1530	4/22								X		X	
B70-1.5	47	1535	4/22											
B70-2.5	48	1545	4/22											
B71-0.5	49	1555	4/22								X		X	
B71-1.5	50	1600	4/22											
B71-2.5	51	1605	4/22											
B72-0.5	52	1400	4/22								X		X	
B72-1.5	53	1405	4/22											
B72-2.5	54	1420	4/22											
B73-0.5	55	1425	4/22								X		X	
B73-1.5	56	1430	4/22											
B73-2.5	57	1435	4/22											
B74-0.5	58	1300	4/22								X		X	
B74-1.5	59	1305	4/22											
B74-2.5	60	1315	4/22											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>4/24</u>		Received By: <u>[Signature]</u>		Date/Time: <u>4/23/16 08:07</u>		NOTES: <u>13.6</u>		Date/Time: <u>13.8</u>				

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7168017

Client Name: PRIVACLE Project: GREYER CLEVELAND HIGH SCHOOL

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: BRIAN Date/Time Lab Received: 11-23-16 / 8:07

Total number of coolers received: 2

Temperature: Cooler #1	18.8	°C +/- the CF (- 0.2°C) = 18.6	°C corrected temperature
Temperature: Cooler #2	14.0	°C +/- the CF (- 0.2°C) = 13.8	°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If NO:			
Samples received on ice?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No →	Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No →	Complete Non-Conformance Sheet

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: SL 11-23-16

Comments:

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # 7163017

- **COOLERS**
 - Not Received (received COC only)
 - Leaking/Damaged
 - Other:
- **CUSTODY SEALS**
 - None
 - Not Intact
- **TEMPERATURE (Temp criteria = $\leq 6^{\circ}\text{C}$)**
 - Cooler/Sample Temp(s)
 - Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
 - Not relinquished by client; No date/time relinquished
 - Incomplete information provided
 - COC not received – notify PM
- **CONTAINERS**
 - Leaking Broken
 - Extra Missing
- **LABELS**
 - Not the same sample ID / info as on the COC
 - Incomplete Information
 - Markings/Info illegible
- **SAMPLES**
 - Samples **NOT RECEIVED** but listed on COC
 - Samples received but **NOT LISTED** on COC
 - Logged based on Label Information and not COC
 - Logged according to Work Plan and not COC
 - Logged in, **ON HOLD** until further notice
 - Insufficient quantities for analysis
 - Improper container used
 - Mislabeled as to tests, preservatives, etc.
 - Holding time expired – list sample ID and test
 - Not preserved/Improper preservative used
 - Without Labels, no information on containers
 - Other

Comments: SAMPLES WERE NOT ON ICE WHEN RECEIVED

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

PEA EQUIVALENT SAMPLING TABLE
 Grover Cleveland Charter High School
 8410 Varalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses	
Building K (MPR and Lunch Pavilion)	Removal	Historical Agriculture	Targeted Perimeter	1	B1	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	4	
Utility Building	Removal	Historical Agriculture	Targeted Perimeter	1	B6	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	
Building L	Removal	Historical Agriculture	Targeted Perimeter	2	B8, B9	TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5'	2	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Asbestos and Lead				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Asbestos and Lead				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
Interceptor	Removal	Vessel/line releases	Targeted to potential release points	2	SV1, SV2 (soil vapor)	TPH (Full-Scan) - EPA Method 8015m	5', 10', 15'	2	
						VOCs - EPA Method 8260B	5', 10', 15'	2	
North Parking Lot	Removal, New Road	Historical Agriculture	Areal Coverage	2	B12, B13	Tile 22 Metals	5', 10', 15'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
Buildings A-810 to A-815, AA-1001, AA-1654, AA-1999, AA-962, AA-964	Removal	Historical Agriculture	Areal Coverage of Similar Structures	16	B14-B29	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Asbestos and Lead	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	16
Buildings C, H, J and P, Building AA-2366	Removal	Historical Agriculture	Targeted Perimeter	9	B30-B38	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	9	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	9
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	9
Access Road	Removal	Historical Agriculture	Composite to one sample for OCPs only	2	B39, B40	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
		Asbestos and Lead				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Transformers, Buildings C and P	Removal	potential PCBs in transformers	Targeted	2	B41, B42	PCBs - EPA Method 8082	0.5', 1.5', 2.5'	2
Tree wells south of Building J	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B43-B45	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Planters west of Chem Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B46, B47	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Chemistry Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	2	B48, B49	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Buildings AA-2199 and 2200, AA-3882 through AA-3887	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Areal Coverage of Similar Structures	8	B50-B57	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	8
Drain at storage locker	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead Hazmat storage	Targeted to potential release point	1	B58	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	1
Three lawn areas along access road	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B59-B61	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Access Road west of lawn areas	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B62-B64	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B65, B66	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B67, B68	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Buildings AA-2730 and A-751	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B69-B71	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B72, B73	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1
Buildings AA-3888 and AA-3889	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B74-B76	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3

Total Number of Borings 78
 Locations Requiring Coring 63

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Report To:
 Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due:	11/30/16 17:00 (3 day TAT)		
Received By:	Brian Charon	Date Received:	11/23/16 08:07
Logged In By:	Sunny Lounethone	Date Logged In:	11/23/16 09:16

Samples Received at:	13.6°C		
Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
T163015-01 B1-0.5 [Soil] Sampled 11/22/16 15:00 (GMT-08:00) Pacific Time (US				
&				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:00	As only
T163015-02 B1-1.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US				
&				
[NO ANALYSES]				
T163015-03 B1-2.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US				
&				
[NO ANALYSES]				
T163015-04 B2-0.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US				
&				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:00	
T163015-05 B2-1.5 [Soil] Sampled 11/21/16 14:10 (GMT-08:00) Pacific Time (US				
&				
[NO ANALYSES]				
T163015-06 B2-2.5 [Soil] Sampled 11/21/16 14:15 (GMT-08:00) Pacific Time (US				
&				
[NO ANALYSES]				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-07 B3-0.5 [Soil] Sampled 11/21/16 14:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:30	
T163015-08 B3-1.5 [Soil] Sampled 11/21/16 14:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-09 B3-2.5 [Soil] Sampled 11/21/16 14:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-10 B4-0.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:10	
T163015-11 B4-1.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-12 B4-2.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-13 B5-0.5 [Soil] Sampled 11/21/16 10:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:45	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:45	
8082 PCB	11/30/16 15:00	3	12/05/16 10:45	
T163015-14 B5-1.5 [Soil] Sampled 11/21/16 10:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-15 B5-2.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-16 B6-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As only

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-17 B6-1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-18 B6-2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-19 B7-0.5 [Soil] Sampled 11/21/16 11:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:25	As, Pb only
8015 Carbon Chain	11/30/16 15:00	3	12/05/16 11:25	
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:25	
T163015-20 B7-1.5 [Soil] Sampled 11/21/16 11:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-21 B7-2.5 [Soil] Sampled 11/21/16 11:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-22 B8-0.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:10	
T163015-23 B8-1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-24 B8-2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-25 B9-0.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:35	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:35	
T163015-26 B9-1.5 [Soil] Sampled 11/22/16 15:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-27 B9-2.5 [Soil] Sampled 11/22/16 15:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-28 B10-0.5 [Soil] Sampled 11/22/16 16:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 16:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 16:10	
T163015-29 B10-1.5 [Soil] Sampled 11/22/16 16:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-30 B10-2.5 [Soil] Sampled 11/22/16 16:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-31 B11-0.5 [Soil] Sampled 11/22/16 15:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:40	
T163015-32 B11-1.5 [Soil] Sampled 11/22/16 15:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-33 B11-2.5 [Soil] Sampled 11/22/16 16:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-34 B12-0.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:15	
T163015-35 B12-1.5 [Soil] Sampled 11/21/16 08:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-36 B12-2.5 [Soil] Sampled 11/21/16 08:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-37 B13-0.5 [Soil] Sampled 11/21/16 08:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:50	
8082 PCB	11/30/16 15:00	3	12/05/16 08:50	
T163015-38 B13-1.5 [Soil] Sampled 11/21/16 09:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-39 B13-2.5 [Soil] Sampled 11/21/16 09:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-40 B14-0.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:25	
T163015-41 B14-1.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-42 B14-2.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-43 B15-0.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:05	
T163015-44 B15-1.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-45 B15-2.5 [Soil] Sampled 11/21/16 10:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-46 B16-0.5 [Soil] Sampled 11/22/16 14:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 14:05	
T163015-47 B16-1.5 [Soil] Sampled 11/22/16 14:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-48 B16-2.5 [Soil] Sampled 11/22/16 14:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-49 B17-0.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:55	
T163015-50 B17-1.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-51 B17-2.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-52 B18-0.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:40	
T163015-53 B18-1.5 [Soil] Sampled 11/21/16 08:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-54 B18-2.5 [Soil] Sampled 11/21/16 09:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-55 B19-0.5 [Soil] Sampled 11/21/16 09:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:15	

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-56 B19-1.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-57 B19-2.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-58 B20-0.5 [Soil] Sampled 11/21/16 13:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:10	
T163015-59 B20-1.5 [Soil] Sampled 11/21/16 13:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-60 B20-2.5 [Soil] Sampled 11/21/16 13:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-61 B21-0.5 [Soil] Sampled 11/21/16 13:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:40	
T163015-62 B21-1.5 [Soil] Sampled 11/21/16 13:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-63 B21-2.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-64 B22-0.5 [Soil] Sampled 11/21/16 14:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:50	
T163015-65 B22-1.5 [Soil] Sampled 11/21/16 14:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-66 B22-2.5 [Soil] Sampled 11/21/16 15:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-67 B23-0.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:30	
T163015-68 B23-1.5 [Soil] Sampled 11/21/16 10:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-69 B23-2.5 [Soil] Sampled 11/21/16 10:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-70 B24-0.5 [Soil] Sampled 11/21/16 14:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:10	
T163015-71 B24-1.5 [Soil] Sampled 11/21/16 14:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-72 B24-2.5 [Soil] Sampled 11/21/16 14:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-73 B25-0.5 [Soil] Sampled 11/21/16 11:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:00	
T163015-74 B25-1.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-75 B25-2.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-76 B26-0.5 [Soil] Sampled 11/21/16 11:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:25	

T163015-77 B26-1.5 [Soil] Sampled 11/21/16 11:35 (GMT-08:00) Pacific Time (US &
 [NO ANALYSES]

T163015-78 B26-2.5 [Soil] Sampled 11/21/16 11:50 (GMT-08:00) Pacific Time (US &
 [NO ANALYSES]

T163015-79 B27-0.5 [Soil] Sampled 11/22/16 07:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 07:45	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 07:45	

T163015-80 B27-1.5 [Soil] Sampled 11/22/16 07:55 (GMT-08:00) Pacific Time (US &
 [NO ANALYSES]

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 11/30/16 17:00 (3 day TAT)

Received By: Brian Charon

Date Received: 11/23/16 08:07

Logged In By: Brian Charon

Date Logged In: 11/23/16 09:17

Samples Received at: **13.3°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T163016-01 B28-0.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:15	
T163016-02 B28- 1.5 [Soil] Sampled 11/21/16 08:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-03 B28- 2.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-04 B29- 0.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:55	
T163016-05 B29- 1.5 [Soil] Sampled 11/21/16 09:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-06 B29- 2.5 [Soil] Sampled 11/21/16 09:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-07 B27- 2.5 [Soil] Sampled 11/22/16 08:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-08 B30- 0.5 [Soil] Sampled 11/21/16 09:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:30	
T163016-09 B30- 1.5 [Soil] Sampled 11/21/16 09:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-10 B30- 2.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-11 B31- 0.5 [Soil] Sampled 11/21/16 10:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:00	
T163016-12 B31- 1.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-13 B31- 2.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-14 B32- 0.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:30	
T163016-15 B32- 1.5 [Soil] Sampled 11/21/16 10:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-16 B32- 2.5 [Soil] Sampled 11/21/16 10:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-17 B33- 0.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:05	
T163016-18 B33- 1.5 [Soil] Sampled 11/21/16 11:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-19 B33- 2.5 [Soil] Sampled 11/21/16 11:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-20 B34- 0.5 [Soil] Sampled 11/22/16 10:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 10:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 10:00	
8082 PCB	11/30/16 15:00	3	12/06/16 10:00	
T163016-21 B34- 1.5 [Soil] Sampled 11/22/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-22 B34- 2.5 [Soil] Sampled 11/22/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-23 B35- 0.5 [Soil] Sampled 11/21/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 15:10	
T163016-24 B35- 1.5 [Soil] Sampled 11/21/16 15:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-25 B35- 2.5 [Soil] Sampled 11/21/16 15:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-26 B36- 0.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:10	
T163016-27 B36- 1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-28 B36- 2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-29 B37- 0.5 [Soil] Sampled 11/21/16 13:35 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:35	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:35	
T163016-30 B37- 1.5 [Soil] Sampled 11/21/16 13:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-31 B37- 2.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-32 B38- 0.5 [Soil] Sampled 11/21/16 13:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:05	
T163016-33 B38- 1.5 [Soil] Sampled 11/21/16 13:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-34 B38- 2.5 [Soil] Sampled 11/21/16 13:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-35 B39- 0.5 [Soil] Sampled 11/22/16 14:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:10	As, Pb only

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-36 B39- 1.5 [Soil] Sampled 11/22/16 14:20 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-37 B39- 2.5 [Soil] Sampled 11/22/16 14:30 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-38 B40- 0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time				
(US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
T163016-39 B40- 1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-40 B40- 2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-41 B41- 0.5 [Soil] Sampled 11/22/16 10:40 (GMT-08:00) Pacific Time				
(US & 8082 PCB				
	11/30/16 15:00	3	12/06/16 10:40	
T163016-42 B41- 1.5 [Soil] Sampled 11/22/16 10:45 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-43 B41- 2.5 [Soil] Sampled 11/22/16 10:55 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-44 B42- 0.5 [Soil] Sampled 11/22/16 12:05 (GMT-08:00) Pacific Time				
(US & 8082 PCB				
	11/30/16 15:00	3	12/06/16 12:05	
T163016-45 B42- 1.5 [Soil] Sampled 11/22/16 12:15 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-46 B42- 2.5 [Soil] Sampled 11/22/16 12:25 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-47 B43- 0.5 [Soil] Sampled 11/21/16 08:05 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:05	As, Pb only
T163016-48 B43- 1.5 [Soil] Sampled 11/21/16 08:10 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-49 B43- 2.5 [Soil] Sampled 11/21/16 08:20 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-50 B44- 0.5 [Soil] Sampled 11/21/16 08:30 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:30	As, Pb only
T163016-51 B44- 1.5 [Soil] Sampled 11/21/16 08:35 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-52 B44- 2.5 [Soil] Sampled 11/21/16 08:45 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-53 B45- 0.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:55	As, Pb only
T163016-54 B45- 1.5 [Soil] Sampled 11/21/16 09:05 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-55 B45- 2.5 [Soil] Sampled 11/21/16 09:15 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-56 B46- 0.5 [Soil] Sampled 11/21/16 08:10 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:10	As, Pb only
T163016-57 B46- 1.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-58 B46- 2.5 [Soil] Sampled 11/21/16 08:30 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-59 B47- 0.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:40	As, Pb only
T163016-60 B47- 1.5 [Soil] Sampled 11/21/16 08:45 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-61 B47- 2.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-62 B48- 0.5 [Soil] Sampled 11/22/16 08:55 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 08:55	
T163016-63 B48- 1.5 [Soil] Sampled 11/22/16 07:05 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-64 B48- 2.5 [Soil] Sampled 11/22/16 07:15 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-65 B49- 0.5 [Soil] Sampled 11/22/16 07:25 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 07:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 07:25	
T163016-66 B49- 1.5 [Soil] Sampled 11/22/16 07:35 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-67 B49- 2.5 [Soil] Sampled 11/22/16 07:45 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-68 B50- 0.5 [Soil] Sampled 11/22/16 14:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 14:50	
T163016-69 B50- 1.5 [Soil] Sampled 11/22/16 14:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-70 B50- 2.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-71 B51- 0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 11:10	
T163016-72 B51- 1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-73 B51- 2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-74 B52- 0.5 [Soil] Sampled 11/22/16 09:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 09:30	
T163016-75 B52- 1.5 [Soil] Sampled 11/22/16 09:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-76 B52- 2.5 [Soil] Sampled 11/22/16 09:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-77 B53- 0.5 [Soil] Sampled 11/22/16 08:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 08:00	

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
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T163016-78 B53- 1.5 [Soil] Sampled 11/22/16 08:05 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

T163016-79 B53- 2.5 [Soil] Sampled 11/22/16 08:15 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

T163016-80 B54- 0.5 [Soil] Sampled 11/22/16 12:50 (GMT-08:00) Pacific Time
 (US &

6010 Individual Metals	11/30/16 15:00	3	05/21/17 12:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 12:50	

T163016-81 Composite B39,B40- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00)2:1 Comp
 Pacific Time (US &

8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
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T163016-82 Composite B43,B44, B45- 0.5 [Soil] Sampled 11/22/16 00:00 **3:1 Comp**
 (GMT-08:00) Pacific Time (US &

8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
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T163016-83 Composite B46,B47- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00)2:1 Comp
 Pacific Time (US &

8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
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WORK ORDER

T163017

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 11/30/16 17:00 (3 day TAT)

Received By: Sunny Lounethone

Date Received: 11/23/16 08:07

Logged In By: Sunny Lounethone

Date Logged In: 11/23/16 10:00

Samples Received at: **13.6°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
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T163017-01 B54-1.5 [Soil] Sampled 11/22/16 12:55 (GMT-08:00) Pacific Time
(US &
[NO ANALYSES]

T163017-02 B54-2.5 [Soil] Sampled 11/22/16 13:05 (GMT-08:00) Pacific Time
(US &
[NO ANALYSES]

T163017-03 B55-0.5 [Soil] Sampled 11/22/16 13:15 (GMT-08:00) Pacific Time
(US &

6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:15	

T163017-04 B55-1.5 [Soil] Sampled 11/22/16 13:25 (GMT-08:00) Pacific Time
(US &
[NO ANALYSES]

T163017-05 B55-2.5 [Soil] Sampled 11/22/16 13:35 (GMT-08:00) Pacific Time
(US &
[NO ANALYSES]

T163017-06 B56-0.5 [Soil] Sampled 11/22/16 13:50 (GMT-08:00) Pacific Time
(US &

6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:50	

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-07 B57-0.5 [Soil] Sampled 11/22/16 09:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 09:50	
8082 PCB	11/30/16 15:00	3	12/06/16 09:50	
T163017-08 B57-1.5 [Soil] Sampled 11/22/16 10:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-09 B57-2.5 [Soil] Sampled 11/22/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-10 B58-0.5 [Soil] Sampled 11/22/16 11:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:40	As, Pb only
8015 Carbon Chain	11/30/16 15:00	3	12/06/16 11:40	
8081 Pesticides	11/30/16 15:00	3	12/06/16 11:40	
8082 PCB	11/30/16 15:00	3	12/06/16 11:40	
T163017-11 B58-1.5 [Soil] Sampled 11/22/16 11:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-12 B58-2.5 [Soil] Sampled 11/22/16 11:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-13 B59-0.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:25	As, Pb only
T163017-14 B59-1.5 [Soil] Sampled 11/21/16 09:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-15 B59-2.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-16 B60-0.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:50	As, Pb only
T163017-17 B60-1.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-18 B60-2.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-19 B61-0.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:15	As, Pb only
T163017-20 B61-1.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-21 B61-2.5 [Soil] Sampled 11/22/16 10:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-22 B62-0.5 [Soil] Sampled 11/21/16 09:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:45	As, Pb only
T163017-23 B62-1.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-24 B62-2.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-25 B63-0.5 [Soil] Sampled 11/22/16 12:20 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 12:20	As, Pb only
T163017-26 B63-1.5 [Soil] Sampled 11/22/16 12:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-27 B63-2.5 [Soil] Sampled 11/22/16 12:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-28 B64-0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
T163017-29 B64-1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-30 B64-2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-31 B65-0.5 [Soil] Sampled 11/22/16 08:25 (GMT-08:00) Pacific Time (US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 08:25	As, Pb only
T163017-32 B65-1.5 [Soil] Sampled 11/22/16 08:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-33 B65-2.5 [Soil] Sampled 11/22/16 08:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-34 B66-0.5 [Soil] Sampled 11/22/16 08:50 (GMT-08:00) Pacific Time (US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 08:50	As, Pb only
T163017-35 B66-1.5 [Soil] Sampled 11/22/16 08:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-36 B66-2.5 [Soil] Sampled 11/22/16 09:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-37 B67-0.5 [Soil] Sampled 11/22/16 09:15 (GMT-08:00) Pacific Time (US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 09:15	As, Pb only

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-38 B67-1.5 [Soil] Sampled 11/22/16 09:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-39 B67-2.5 [Soil] Sampled 11/22/16 09:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-40 B68-0.5 [Soil] Sampled 11/22/16 09:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:40	As, Pb only
T163017-41 B68-1.5 [Soil] Sampled 11/22/16 09:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-42 B68-2.5 [Soil] Sampled 11/22/16 09:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-43 B69-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:05	
T163017-44 B69-1.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-45 B69-2.5 [Soil] Sampled 11/22/16 15:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-46 B70-0.5 [Soil] Sampled 11/22/16 15:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:30	
8082 PCB	11/30/16 15:00	3	12/06/16 15:30	
T163017-47 B70-1.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-48 B70-2.5 [Soil] Sampled 11/22/16 15:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-49 B71-0.5 [Soil] Sampled 11/22/16 15:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:55	
T163017-50 B71-1.5 [Soil] Sampled 11/22/16 16:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-51 B71-2.5 [Soil] Sampled 11/22/16 16:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-52 B72-0.5 [Soil] Sampled 11/22/16 14:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:00	As, Pb only
T163017-53 B72-1.5 [Soil] Sampled 11/22/16 14:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-54 B72-2.5 [Soil] Sampled 11/22/16 14:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-55 B73-0.5 [Soil] Sampled 11/22/16 14:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:25	As, Pb only
T163017-56 B73-1.5 [Soil] Sampled 11/22/16 14:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-57 B73-2.5 [Soil] Sampled 11/22/16 14:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-58 B74-0.5 [Soil] Sampled 11/22/16 13:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:00	
8082 PCB	11/30/16 15:00	3	12/06/16 13:00	
T163017-59 B74-1.5 [Soil] Sampled 11/22/16 13:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-60 B74-2.5 [Soil] Sampled 11/22/16 13:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-61 B75-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:05	
T163017-62 B76-0.5 [Soil] Sampled 11/22/16 15:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:30	
T163017-63 B76-1.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-64 B76-2.5 [Soil] Sampled 11/22/16 15:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-65 DRUM [Soil] Sampled 11/22/16 16:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	11/30/16 15:00	3	05/21/17 16:10	
8015 Carbon Chain	11/30/16 15:00	3	12/06/16 16:10	
8081 Pesticides	11/30/16 15:00	3	12/06/16 16:10	
8260	11/30/16 15:00	3	12/06/16 16:10	+ OXY
T163017-66 COMP: B59,60,61-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 3:1

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-67 COMP: B62,63,64-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US & 8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 3:1
T163017-68 COMP: B65,66-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US & 8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 2:1
T163017-69 COMP: B67,68-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US & 8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 2:1
T163017-70 COMP: B72,73-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US & 8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 2:1

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 11/30/16 17:00 (3 day TAT)

Received By: Brian Charon

Date Received: 11/23/16 08:07

Logged In By: Sunny Lounethone

Date Logged In: 11/23/16 09:16

Samples Received at: **13.6°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
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T163015-01 B1-0.5 [Soil] Sampled 11/22/16 15:00 (GMT-08:00) Pacific Time (US &

6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:00	As only
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T163015-02 B1-1.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T163015-03 B1-2.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T163015-04 B2-0.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US &

6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:00	

T163015-05 B2-1.5 [Soil] Sampled 11/21/16 14:10 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T163015-06 B2-2.5 [Soil] Sampled 11/21/16 14:15 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-07 B3-0.5 [Soil] Sampled 11/21/16 14:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:30	
T163015-08 B3-1.5 [Soil] Sampled 11/21/16 14:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-09 B3-2.5 [Soil] Sampled 11/21/16 14:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-10 B4-0.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:10	
T163015-11 B4-1.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-12 B4-2.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-13 B5-0.5 [Soil] Sampled 11/21/16 10:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:45	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:45	
8082 PCB	11/30/16 15:00	3	12/05/16 10:45	
T163015-14 B5-1.5 [Soil] Sampled 11/21/16 10:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-15 B5-2.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-16 B6-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As only

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-17 B6-1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-18 B6-2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-19 B7-0.5 [Soil] Sampled 11/21/16 11:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:25	As, Pb only
8015 Carbon Chain	11/30/16 15:00	3	12/05/16 11:25	
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:25	
T163015-20 B7-1.5 [Soil] Sampled 11/21/16 11:35 (GMT-08:00) Pacific Time (US &				
6010 Pb	12/07/16 15:00	3	05/20/17 11:35	6010 Pb added per client request (Keith, 12/2)
T163015-21 B7-2.5 [Soil] Sampled 11/21/16 11:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-22 B8-0.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:10	
T163015-23 B8-1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-24 B8-2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-25 B9-0.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:35	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:35	
T163015-26 B9-1.5 [Soil] Sampled 11/22/16 15:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-27 B9-2.5 [Soil] Sampled 11/22/16 15:50 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163015-28 B10-0.5 [Soil] Sampled 11/22/16 16:10 (GMT-08:00) Pacific Time				
(US &				
STLC As added per client request (Keith, 12/2)				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 16:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 16:10	
STLC Pb	12/07/16 15:00	3	05/21/17 16:10	Arsenic ONLY
STLC Leaching Procedure Metals	12/07/16 15:00	3	12/06/16 16:10	
T163015-29 B10-1.5 [Soil] Sampled 11/22/16 16:20 (GMT-08:00) Pacific Time				
(US &				
6010 As added per client request (Keith, 12/2)				
6010 Individual Metals	12/07/16 15:00	3	05/21/17 16:20	As ONLY
T163015-30 B10-2.5 [Soil] Sampled 11/22/16 16:30 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163015-31 B11-0.5 [Soil] Sampled 11/22/16 15:40 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:40	
T163015-32 B11-1.5 [Soil] Sampled 11/22/16 15:50 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163015-33 B11-2.5 [Soil] Sampled 11/22/16 16:00 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163015-34 B12-0.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:15	
T163015-35 B12-1.5 [Soil] Sampled 11/21/16 08:25 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
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T163015-36 B12-2.5 [Soil] Sampled 11/21/16 08:35 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

T163015-37 B13-0.5 [Soil] Sampled 11/21/16 08:50 (GMT-08:00) Pacific Time
 (US &

6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:50	
8082 PCB	11/30/16 15:00	3	12/05/16 08:50	

T163015-38 B13-1.5 [Soil] Sampled 11/21/16 09:00 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

T163015-39 B13-2.5 [Soil] Sampled 11/21/16 09:10 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

T163015-40 B14-0.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time
 (US &

6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:25	

T163015-41 B14-1.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

T163015-42 B14-2.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

T163015-43 B15-0.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time
 (US &

6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:05	

T163015-44 B15-1.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

T163015-45 B15-2.5 [Soil] Sampled 11/21/16 10:25 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-46 B16-0.5 [Soil] Sampled 11/22/16 14:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 14:05	
T163015-47 B16-1.5 [Soil] Sampled 11/22/16 14:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-48 B16-2.5 [Soil] Sampled 11/22/16 14:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-49 B17-0.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:55	
T163015-50 B17-1.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-51 B17-2.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-52 B18-0.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:40	
T163015-53 B18-1.5 [Soil] Sampled 11/21/16 08:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-54 B18-2.5 [Soil] Sampled 11/21/16 09:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-55 B19-0.5 [Soil] Sampled 11/21/16 09:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:15	

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-56 B19-1.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-57 B19-2.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-58 B20-0.5 [Soil] Sampled 11/21/16 13:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:10	
T163015-59 B20-1.5 [Soil] Sampled 11/21/16 13:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-60 B20-2.5 [Soil] Sampled 11/21/16 13:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-61 B21-0.5 [Soil] Sampled 11/21/16 13:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:40	
T163015-62 B21-1.5 [Soil] Sampled 11/21/16 13:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-63 B21-2.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-64 B22-0.5 [Soil] Sampled 11/21/16 14:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:50	
T163015-65 B22-1.5 [Soil] Sampled 11/21/16 14:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-66 B22-2.5 [Soil] Sampled 11/21/16 15:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-67 B23-0.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:30	
T163015-68 B23-1.5 [Soil] Sampled 11/21/16 10:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-69 B23-2.5 [Soil] Sampled 11/21/16 10:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-70 B24-0.5 [Soil] Sampled 11/21/16 14:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:10	
T163015-71 B24-1.5 [Soil] Sampled 11/21/16 14:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-72 B24-2.5 [Soil] Sampled 11/21/16 14:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-73 B25-0.5 [Soil] Sampled 11/21/16 11:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:00	
T163015-74 B25-1.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-75 B25-2.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-76 B26-0.5 [Soil] Sampled 11/21/16 11:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:25	
T163015-77 B26-1.5 [Soil] Sampled 11/21/16 11:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-78 B26-2.5 [Soil] Sampled 11/21/16 11:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-79 B27-0.5 [Soil] Sampled 11/22/16 07:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 07:45	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 07:45	
T163015-80 B27-1.5 [Soil] Sampled 11/22/16 07:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 11/30/16 17:00 (3 day TAT)

Received By: Brian Charon

Date Received: 11/23/16 08:07

Logged In By: Brian Charon

Date Logged In: 11/23/16 09:17

Samples Received at: **13.3°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T163016-01 B28-0.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:15	
T163016-02 B28- 1.5 [Soil] Sampled 11/21/16 08:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-03 B28- 2.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-04 B29- 0.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:55	
T163016-05 B29- 1.5 [Soil] Sampled 11/21/16 09:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-06 B29- 2.5 [Soil] Sampled 11/21/16 09:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-07 B27- 2.5 [Soil] Sampled 11/22/16 08:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-08 B30- 0.5 [Soil] Sampled 11/21/16 09:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:30	
T163016-09 B30- 1.5 [Soil] Sampled 11/21/16 09:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-10 B30- 2.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-11 B31- 0.5 [Soil] Sampled 11/21/16 10:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:00	
T163016-12 B31- 1.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-13 B31- 2.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-14 B32- 0.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:30	
T163016-15 B32- 1.5 [Soil] Sampled 11/21/16 10:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-16 B32- 2.5 [Soil] Sampled 11/21/16 10:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-17 B33- 0.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:05	
T163016-18 B33- 1.5 [Soil] Sampled 11/21/16 11:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-19 B33- 2.5 [Soil] Sampled 11/21/16 11:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-20 B34- 0.5 [Soil] Sampled 11/22/16 10:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 10:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 10:00	
8082 PCB	11/30/16 15:00	3	12/06/16 10:00	
T163016-21 B34- 1.5 [Soil] Sampled 11/22/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-22 B34- 2.5 [Soil] Sampled 11/22/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-23 B35- 0.5 [Soil] Sampled 11/21/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 15:10	
T163016-24 B35- 1.5 [Soil] Sampled 11/21/16 15:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-25 B35- 2.5 [Soil] Sampled 11/21/16 15:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-26 B36- 0.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:10	
T163016-27 B36- 1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-28 B36- 2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-29 B37- 0.5 [Soil] Sampled 11/21/16 13:35 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:35	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:35	
STLC Pb	12/07/16 15:00	3	05/20/17 13:35	STLC Pb added per client request (Keith, 12/2)
STLC Leaching Procedure Metals	12/07/16 15:00	3	12/05/16 13:35	
T163016-30 B37- 1.5 [Soil] Sampled 11/21/16 13:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	12/07/16 15:00	3	05/20/17 13:45	6010 Pb added per client request (Keith, 12/2)
T163016-31 B37- 2.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-32 B38- 0.5 [Soil] Sampled 11/21/16 13:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:05	
T163016-33 B38- 1.5 [Soil] Sampled 11/21/16 13:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-34 B38- 2.5 [Soil] Sampled 11/21/16 13:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-35 B39- 0.5 [Soil] Sampled 11/22/16 14:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:10	As, Pb only
T163016-36 B39- 1.5 [Soil] Sampled 11/22/16 14:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-37 B39- 2.5 [Soil] Sampled 11/22/16 14:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-38 B40- 0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
T163016-39 B40- 1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-40 B40- 2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-41 B41- 0.5 [Soil] Sampled 11/22/16 10:40 (GMT-08:00) Pacific Time (US &				
8082 PCB	11/30/16 15:00	3	12/06/16 10:40	
T163016-42 B41- 1.5 [Soil] Sampled 11/22/16 10:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-43 B41- 2.5 [Soil] Sampled 11/22/16 10:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-44 B42- 0.5 [Soil] Sampled 11/22/16 12:05 (GMT-08:00) Pacific Time (US &				
8082 PCB	11/30/16 15:00	3	12/06/16 12:05	
T163016-45 B42- 1.5 [Soil] Sampled 11/22/16 12:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-46 B42- 2.5 [Soil] Sampled 11/22/16 12:25 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-47 B43- 0.5 [Soil] Sampled 11/21/16 08:05 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:05	As, Pb only
T163016-48 B43- 1.5 [Soil] Sampled 11/21/16 08:10 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-49 B43- 2.5 [Soil] Sampled 11/21/16 08:20 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-50 B44- 0.5 [Soil] Sampled 11/21/16 08:30 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:30	As, Pb only
T163016-51 B44- 1.5 [Soil] Sampled 11/21/16 08:35 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-52 B44- 2.5 [Soil] Sampled 11/21/16 08:45 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-53 B45- 0.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:55	As, Pb only
T163016-54 B45- 1.5 [Soil] Sampled 11/21/16 09:05 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-55 B45- 2.5 [Soil] Sampled 11/21/16 09:15 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-56 B46- 0.5 [Soil] Sampled 11/21/16 08:10 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:10	As, Pb only

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-57 B46- 1.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-58 B46- 2.5 [Soil] Sampled 11/21/16 08:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-59 B47- 0.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:40	As, Pb only
T163016-60 B47- 1.5 [Soil] Sampled 11/21/16 08:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-61 B47- 2.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-62 B48- 0.5 [Soil] Sampled 11/22/16 08:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 08:55	
T163016-63 B48- 1.5 [Soil] Sampled 11/22/16 07:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-64 B48- 2.5 [Soil] Sampled 11/22/16 07:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-65 B49- 0.5 [Soil] Sampled 11/22/16 07:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 07:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 07:25	
T163016-66 B49- 1.5 [Soil] Sampled 11/22/16 07:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-67 B49- 2.5 [Soil] Sampled 11/22/16 07:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-68 B50- 0.5 [Soil] Sampled 11/22/16 14:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 14:50	
T163016-69 B50- 1.5 [Soil] Sampled 11/22/16 14:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-70 B50- 2.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-71 B51- 0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 11:10	
T163016-72 B51- 1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-73 B51- 2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-74 B52- 0.5 [Soil] Sampled 11/22/16 09:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 09:30	
T163016-75 B52- 1.5 [Soil] Sampled 11/22/16 09:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-76 B52- 2.5 [Soil] Sampled 11/22/16 09:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-77 B53- 0.5 [Soil] Sampled 11/22/16 08:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 08:00	
T163016-78 B53- 1.5 [Soil] Sampled 11/22/16 08:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-79 B53- 2.5 [Soil] Sampled 11/22/16 08:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-80 B54- 0.5 [Soil] Sampled 11/22/16 12:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 12:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 12:50	
T163016-81 Composite B39,B40- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	2:1 Comp
T163016-82 Composite B43,B44, B45- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	3:1 Comp
T163016-83 Composite B46,B47- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	2:1 Comp

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 11/30/16 17:00 (3 day TAT)

Received By: Sunny Lounethone

Date Received: 11/23/16 08:07

Logged In By: Sunny Lounethone

Date Logged In: 11/23/16 10:00

Samples Received at: **13.6°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T163017-01 B54-1.5 [Soil] Sampled 11/22/16 12:55 (GMT-08:00) Pacific Time (US & 6010 Pb	12/07/16 15:00	3	05/21/17 12:55	6010 Pb added per client request (Keith, 12/2)
T163017-02 B54-2.5 [Soil] Sampled 11/22/16 13:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-03 B55-0.5 [Soil] Sampled 11/22/16 13:15 (GMT-08:00) Pacific Time (US & 6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:15	
T163017-04 B55-1.5 [Soil] Sampled 11/22/16 13:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-05 B55-2.5 [Soil] Sampled 11/22/16 13:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-06 B56-0.5 [Soil] Sampled 11/22/16 13:50 (GMT-08:00) Pacific Time (US & 6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:50	

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-07 B57-0.5 [Soil] Sampled 11/22/16 09:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 09:50	
8082 PCB	11/30/16 15:00	3	12/06/16 09:50	
T163017-08 B57-1.5 [Soil] Sampled 11/22/16 10:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-09 B57-2.5 [Soil] Sampled 11/22/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-10 B58-0.5 [Soil] Sampled 11/22/16 11:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:40	As, Pb only
8015 Carbon Chain	11/30/16 15:00	3	12/06/16 11:40	
8081 Pesticides	11/30/16 15:00	3	12/06/16 11:40	
8082 PCB	11/30/16 15:00	3	12/06/16 11:40	
T163017-11 B58-1.5 [Soil] Sampled 11/22/16 11:50 (GMT-08:00) Pacific Time (US &				
6010 As added per client request (Keith, 12/2)				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:50	As ONLY
T163017-12 B58-2.5 [Soil] Sampled 11/22/16 11:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-13 B59-0.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:25	As, Pb only
T163017-14 B59-1.5 [Soil] Sampled 11/21/16 09:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-15 B59-2.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-16 B60-0.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:50	As, Pb only
T163017-17 B60-1.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-18 B60-2.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-19 B61-0.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:15	As, Pb only
T163017-20 B61-1.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-21 B61-2.5 [Soil] Sampled 11/22/16 10:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-22 B62-0.5 [Soil] Sampled 11/21/16 09:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:45	As, Pb only
T163017-23 B62-1.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-24 B62-2.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-25 B63-0.5 [Soil] Sampled 11/22/16 12:20 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 12:20	As, Pb only
T163017-26 B63-1.5 [Soil] Sampled 11/22/16 12:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-27 B63-2.5 [Soil] Sampled 11/22/16 12:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-28 B64-0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/21/17 11:10 As, Pb only)				
T163017-29 B64-1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-30 B64-2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-31 B65-0.5 [Soil] Sampled 11/22/16 08:25 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/21/17 08:25 As, Pb only)				
T163017-32 B65-1.5 [Soil] Sampled 11/22/16 08:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-33 B65-2.5 [Soil] Sampled 11/22/16 08:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-34 B66-0.5 [Soil] Sampled 11/22/16 08:50 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/21/17 08:50 As, Pb only)				
T163017-35 B66-1.5 [Soil] Sampled 11/22/16 08:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-36 B66-2.5 [Soil] Sampled 11/22/16 09:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-37 B67-0.5 [Soil] Sampled 11/22/16 09:15 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/21/17 09:15 As, Pb only)				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-38 B67-1.5 [Soil] Sampled 11/22/16 09:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-39 B67-2.5 [Soil] Sampled 11/22/16 09:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-40 B68-0.5 [Soil] Sampled 11/22/16 09:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:40	As, Pb only
T163017-41 B68-1.5 [Soil] Sampled 11/22/16 09:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-42 B68-2.5 [Soil] Sampled 11/22/16 09:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-43 B69-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:05	
T163017-44 B69-1.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-45 B69-2.5 [Soil] Sampled 11/22/16 15:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-46 B70-0.5 [Soil] Sampled 11/22/16 15:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:30	
8082 PCB	11/30/16 15:00	3	12/06/16 15:30	
T163017-47 B70-1.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-48 B70-2.5 [Soil] Sampled 11/22/16 15:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-49 B71-0.5 [Soil] Sampled 11/22/16 15:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:55	
T163017-50 B71-1.5 [Soil] Sampled 11/22/16 16:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-51 B71-2.5 [Soil] Sampled 11/22/16 16:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-52 B72-0.5 [Soil] Sampled 11/22/16 14:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:00	As, Pb only
T163017-53 B72-1.5 [Soil] Sampled 11/22/16 14:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-54 B72-2.5 [Soil] Sampled 11/22/16 14:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-55 B73-0.5 [Soil] Sampled 11/22/16 14:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:25	As, Pb only
T163017-56 B73-1.5 [Soil] Sampled 11/22/16 14:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-57 B73-2.5 [Soil] Sampled 11/22/16 14:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-58 B74-0.5 [Soil] Sampled 11/22/16 13:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:00	
8082 PCB	11/30/16 15:00	3	12/06/16 13:00	
T163017-59 B74-1.5 [Soil] Sampled 11/22/16 13:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-60 B74-2.5 [Soil] Sampled 11/22/16 13:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-61 B75-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:05	
T163017-62 B76-0.5 [Soil] Sampled 11/22/16 15:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:30	
T163017-63 B76-1.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-64 B76-2.5 [Soil] Sampled 11/22/16 15:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-65 DRUM [Soil] Sampled 11/22/16 16:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	11/30/16 15:00	3	11/27/16 16:10	
8015 Carbon Chain	11/30/16 15:00	3	12/06/16 16:10	
8081 Pesticides	11/30/16 15:00	3	12/06/16 16:10	
8260	11/30/16 15:00	3	12/06/16 16:10	+ OXY
T163017-66 COMP: B59,60,61-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 3:1 Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-67 COMP: B62,63,64-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 3:1				
Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
T163017-68 COMP: B65,66-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 2:1				
Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
T163017-69 COMP: B67,68-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 2:1				
Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
T163017-70 COMP: B72,73-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 2:1				
Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

13 December 2016

Keith Thompson
Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch, CA 92610
RE: Grover Cleveland High School

Enclosed are the results of analyses for samples received by the laboratory on 11/23/16 08:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/13/16 12:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B58-2.5	T163017-12	Soil	11/22/16 11:55	11/23/16 08:07

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



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Lake Forest, California 92630
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949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/13/16 12:53

DETECTIONS SUMMARY

Sample ID: B58-2.5

Laboratory ID: T163017-12

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	9.1	5.0		mg/kg	EPA 6010B	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



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 Lake Forest, California 92630
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 949.297.5027 Fax

Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/13/16 12:53
--	--	-----------------------------

B58-2.5
T163017-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	9.1	5.0	mg/kg	1	6120836	12/08/16	12/09/16	EPA 6010B	
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SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/13/16 12:53
--	--	-----------------------------

Metals by EPA 6010B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6120836 - EPA 3051										
Blank (6120836-BLK1) Prepared: 12/08/16 Analyzed: 12/09/16										
Arsenic	ND	5.0	mg/kg							
LCS (6120836-BS1) Prepared: 12/08/16 Analyzed: 12/09/16										
Arsenic	94.8	5.0	mg/kg	100	94.8	75-125				
Matrix Spike (6120836-MS1) Source: T163132-03 Prepared: 12/08/16 Analyzed: 12/09/16										
Arsenic	85.1	5.0	mg/kg	100	1.54	83.6	75-125			
Matrix Spike Dup (6120836-MSD1) Source: T163132-03 Prepared: 12/08/16 Analyzed: 12/09/16										
Arsenic	92.9	5.0	mg/kg	100	1.54	91.3	75-125	8.70	20	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



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Lake Forest, California 92630
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Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/13/16 12:53

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

CHAIN OF CUSTODY RECORD

7/63017

3-244



Site: Graver Elementary and High School **Project Manager:** MALVEY THOMPSON
Address: 8140 VANANDERBEN AVE **Sampled By:** MALVEY THOMPSON
RESEDA, CA **Laboratory:** SWUSTAR

NORM (RUSH)
EDF - YES (NO)

Page 9 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (Encore)	TPH EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SWDE EPA 62799 Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	1,4-Dioxane EdL 300000M4
B54-1.5	01	1255	11/22	Soil	J									
B54-2.5	02	1305	11/22											
B55-0.5	03	1315	11/22											
B55-1.5	04	1325	11/22											
B55-2.5	05	1335	11/22											
B56-0.5	06	1350	11/22											
B57-0.5	07	950	11/22											
B57-1.5	08	1000	11/22											
B57-2.5	09	1010	11/22											
B58-0.5	10	1140	11/22				X							
B58-1.5	11	1150	11/22											
B58-2.5	12	1155	11/22											
B59-0.5	13	925	11/24											
B59-1.5	14	930	11/24											
B59-2.5	15	940	11/24											
B60-0.5	16	950	11/24											
B60-1.5	17	955	11/24											
B60-2.5	18	1005	11/24											
B61-0.5	19	1015	11/24											
B61-1.5	20	1020	11/24											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/24/16</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/16 08:07</u>		NOTES: <u>13.6</u>		Date/Time: <u>13.8</u>				

CHAIN OF CUSTODY RECORD

7/63017

2-2444



Site: Graber Cleveland High School Project Manager: MALVEY THOMPSON
 Address: 8140 WARDERS AVE Sampled By: MALVEY THOMPSON
 Laboratory: RESERVA CA Laboratory: SWUSTAR

NORM (RUSH)
 EDF - YES / NO
 Page 10 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J-Lar T = Tube V = VOA	EPA 5035 (Encore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygens EPA 8260B Lead	SVOC EPA 8270C	Pesticides PCBs EPA 8081/8082	Title 22 Metals	14-Dioxane EPA 8260B/K1 ar-some
B61-2.5	21	1030	11/22	Soil	J									
B62-0.5	22	985	11/24											X
B62-1.5	23	955	11/21											
B62-2.5	24	D10	11/24											
B63-0.5	25	1220	11/22											X
B63-1.5	26	1230	11/22											
B63-2.5	27	1240	11/22											X
B64-0.5	28	1110	11/22											X
B64-1.5	29	1120	11/22											
B64-2.5	30	1130	11/22											
B65-0.5	31	825	11/22											X
B65-1.5	32	830	11/22											X
B65-2.5	33	840	11/22											X
B66-0.5	34	850	11/22											X
B66-1.5	35	855	11/22											
B66-2.5	36	905	11/22											
B67-0.5	37	915	11/22											X
B67-1.5	38	925	11/22											X
B67-2.5	39	930	11/22											X
B68-0.5	40	940	11/22											X
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/24/16</u>	Received By: <u>[Signature]</u>		Date/Time: <u>11/23/16</u>	NOTES: <u>13.6</u>		Date/Time: <u>08.07</u>		Date/Time: <u>13.8</u>				

CHAIN OF CUSTODY RECORD

7163417

3-14-14



Site: Beaver Cleveand High School MALVEY THOMPSON
Address: 8146 VAUARDEN AVE. MALVEY THOMPSON
Project Manager: _____
Sampled By: _____
Laboratory: RESEDA, CA SWUSTAR

NORM RUSH
EDF - YES (NO)

Page 11 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (Encore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270B Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	1,4-Dioxane EPA 8260B AT 201C
B68-1.5	41	945	4/22	Soil	J									
B68-2.5	42	955	4/22											
B69-0.5	43	1505	4/22								X	X	OCPS only	X
B69-1.5	44	1510	4/22											
B69-2.5	45	1520	4/22								X	X		X
B70-0.5	46	1530	4/22											X
B70-1.5	47	1535	4/22											
B70-2.5	48	1545	4/22											
B71-0.5	49	1555	4/22								X	X	OCPS only	X
B71-1.5	50	1600	4/22											
B71-2.5	51	1605	4/22											
B72-0.5	52	1400	4/22								X	X	OCPS compos da	X
B72-1.5	53	1405	4/22											
B72-2.5	54	1420	4/22											
B73-0.5	55	1425	4/22								X	X	OCPS 0.5	X
B73-1.5	56	1430	4/22											
B73-2.5	57	1435	4/22											
B74-0.5	58	1300	4/22								X	X		X
B74-1.5	59	1305	4/22											
B74-2.5	60	1315	4/22											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>4/24</u>		Received By: <u>[Signature]</u>		Date/Time: <u>4/23/16 08:07</u>		NOTES: <u>18.6</u>		Date/Time: <u>18.8</u>				

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7168017

Client Name: PRIVACILE Project: GREYER CLEVELAND HIGH SCHOOL

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: BRIAN Date/Time Lab Received: 11-23-16 / 8:07

Total number of coolers received: 2

Temperature: Cooler #1	13.8	°C +/- the CF (- 0.2°C) =	13.6	°C corrected temperature
Temperature: Cooler #2	14.0	°C +/- the CF (- 0.2°C) =	13.8	°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If NO:				
Samples received on ice?	<input type="checkbox"/> Yes		<input checked="" type="checkbox"/> No → Complete Non-Conformance Sheet	
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable		<input type="checkbox"/> No → Complete Non-Conformance Sheet	

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: SL 11-23-16

Comments:

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # 7163017

- **COOLERS**
 - Not Received (received COC only)
 - Leaking/Damaged
 - Other:
- **CUSTODY SEALS**
 - None
 - Not Intact
- **TEMPERATURE (Temp criteria = $\leq 6^{\circ}\text{C}$)**
 - Cooler/Sample Temp(s)
 - Temperature Blank(s)
- **CHAIN OF CUSTODY (COC)**
 - Not relinquished by client; No date/time relinquished
 - Incomplete information provided
 - COC not received – notify PM
- **CONTAINERS**
 - Leaking Broken
 - Extra Missing
- **LABELS**
 - Not the same sample ID / info as on the COC
 - Incomplete Information
 - Markings/Info illegible
- **SAMPLES**
 - Samples **NOT RECEIVED** but listed on COC
 - Samples received but **NOT LISTED** on COC
 - Logged based on Label Information and not COC
 - Logged according to Work Plan and not COC
 - Logged in, **ON HOLD** until further notice
 - Insufficient quantities for analysis
 - Improper container used
 - Mislabeled as to tests, preservatives, etc.
 - Holding time expired – list sample ID and test
 - Not preserved/Improper preservative used
 - Without Labels, no information on containers
 - Other

Comments: SAMPLES WERE NOT ON ICE WHEN RECEIVED

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Varalden Avenue
 Redwood, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses	
Building K (MPR and Lunch Pavilion)	Removal	Historical Agriculture	Targeted Perimeter	1	B1	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	4	
Utility Building	Removal	Historical Agriculture	Targeted Perimeter	1	B6	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020		1	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	
Building L	Removal	Historical Agriculture	Targeted Perimeter	2	B8, B9	TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5'	2	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Asbestos and Lead				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Asbestos and Lead				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
Interceptor	Removal	Vessel/line releases	Targeted to potential release points	2	SV1, SV2 (soil vapor)	TPH (Full-Scan) - EPA Method 8015m	5', 10', 15'	2	
						VOCs - EPA Method 8260B	5', 10', 15'	2	
North Parking Lot	Removal, New Road	Historical Agriculture	Areal Coverage	2	B12, B13	Tile 22 Metals	5', 10', 15'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
Buildings A-810 to A-815, AA-1001, AA-1654, AA-1999, AA-962, AA-964	Removal	Historical Agriculture	Areal Coverage of Similar Structures	16	B14-B29	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Asbestos and Lead	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	16
Buildings C, H, J and P, Building AA-2366	Removal	Historical Agriculture	Targeted Perimeter	9	B30-B38	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	9	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	9
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	9
Access Road	Removal	Historical Agriculture	Composite to one sample for OCPs only	2	B39, B40	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
		Asbestos and Lead				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Transformers, Buildings C and P	Removal	potential PCBs in transformers	Targeted	2	B41, B42	PCBs - EPA Method 8082	0.5', 1.5', 2.5'	2
Tree wells south of Building J	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B43-B45	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Planters west of Chem Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B46, B47	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Chemistry Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	2	B48, B49	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Buildings AA-2199 and 2200, AA-3882 through AA-3887	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Areal Coverage of Similar Structures	8	B50-B57	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	8
Drain at storage locker	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead Hazmat storage	Targeted to potential release point	1	B58	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	1
Three lawn areas along access road	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B59-B61	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Access Road west of lawn areas	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B62-B64	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B65, B66	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B67, B68	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Buildings AA-2730 and A-751	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B69-B71	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B72, B73	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1
Buildings AA-3888 and AA-3889	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B74-B76	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3

Total Number of Borings 78
 Locations Requiring Coring 63

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 11/30/16 17:00 (3 day TAT)

Received By: Sunny Lounethone

Date Received: 11/23/16 08:07

Logged In By: Sunny Lounethone

Date Logged In: 11/23/16 10:00

Samples Received at: **13.6°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T163017-01 B54-1.5 [Soil] Sampled 11/22/16 12:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-02 B54-2.5 [Soil] Sampled 11/22/16 13:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-03 B55-0.5 [Soil] Sampled 11/22/16 13:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:15	
T163017-04 B55-1.5 [Soil] Sampled 11/22/16 13:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-05 B55-2.5 [Soil] Sampled 11/22/16 13:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-06 B56-0.5 [Soil] Sampled 11/22/16 13:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:50	

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-07 B57-0.5 [Soil] Sampled 11/22/16 09:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 09:50	
8082 PCB	11/30/16 15:00	3	12/06/16 09:50	
T163017-08 B57-1.5 [Soil] Sampled 11/22/16 10:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-09 B57-2.5 [Soil] Sampled 11/22/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-10 B58-0.5 [Soil] Sampled 11/22/16 11:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:40	As, Pb only
8015 Carbon Chain	11/30/16 15:00	3	12/06/16 11:40	
8081 Pesticides	11/30/16 15:00	3	12/06/16 11:40	
8082 PCB	11/30/16 15:00	3	12/06/16 11:40	
T163017-11 B58-1.5 [Soil] Sampled 11/22/16 11:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-12 B58-2.5 [Soil] Sampled 11/22/16 11:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-13 B59-0.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:25	As, Pb only
T163017-14 B59-1.5 [Soil] Sampled 11/21/16 09:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-15 B59-2.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-16 B60-0.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:50	As, Pb only
T163017-17 B60-1.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-18 B60-2.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-19 B61-0.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:15	As, Pb only
T163017-20 B61-1.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-21 B61-2.5 [Soil] Sampled 11/22/16 10:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-22 B62-0.5 [Soil] Sampled 11/21/16 09:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:45	As, Pb only
T163017-23 B62-1.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-24 B62-2.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-25 B63-0.5 [Soil] Sampled 11/22/16 12:20 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 12:20	As, Pb only
T163017-26 B63-1.5 [Soil] Sampled 11/22/16 12:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-27 B63-2.5 [Soil] Sampled 11/22/16 12:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-28 B64-0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
T163017-29 B64-1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-30 B64-2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-31 B65-0.5 [Soil] Sampled 11/22/16 08:25 (GMT-08:00) Pacific Time (US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 08:25	As, Pb only
T163017-32 B65-1.5 [Soil] Sampled 11/22/16 08:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-33 B65-2.5 [Soil] Sampled 11/22/16 08:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-34 B66-0.5 [Soil] Sampled 11/22/16 08:50 (GMT-08:00) Pacific Time (US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 08:50	As, Pb only
T163017-35 B66-1.5 [Soil] Sampled 11/22/16 08:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-36 B66-2.5 [Soil] Sampled 11/22/16 09:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-37 B67-0.5 [Soil] Sampled 11/22/16 09:15 (GMT-08:00) Pacific Time (US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 09:15	As, Pb only

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-38 B67-1.5 [Soil] Sampled 11/22/16 09:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-39 B67-2.5 [Soil] Sampled 11/22/16 09:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-40 B68-0.5 [Soil] Sampled 11/22/16 09:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:40	As, Pb only
T163017-41 B68-1.5 [Soil] Sampled 11/22/16 09:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-42 B68-2.5 [Soil] Sampled 11/22/16 09:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-43 B69-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:05	
T163017-44 B69-1.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-45 B69-2.5 [Soil] Sampled 11/22/16 15:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-46 B70-0.5 [Soil] Sampled 11/22/16 15:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:30	
8082 PCB	11/30/16 15:00	3	12/06/16 15:30	
T163017-47 B70-1.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-48 B70-2.5 [Soil] Sampled 11/22/16 15:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-49 B71-0.5 [Soil] Sampled 11/22/16 15:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:55	
T163017-50 B71-1.5 [Soil] Sampled 11/22/16 16:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-51 B71-2.5 [Soil] Sampled 11/22/16 16:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-52 B72-0.5 [Soil] Sampled 11/22/16 14:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:00	As, Pb only
T163017-53 B72-1.5 [Soil] Sampled 11/22/16 14:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-54 B72-2.5 [Soil] Sampled 11/22/16 14:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-55 B73-0.5 [Soil] Sampled 11/22/16 14:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:25	As, Pb only
T163017-56 B73-1.5 [Soil] Sampled 11/22/16 14:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-57 B73-2.5 [Soil] Sampled 11/22/16 14:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-58 B74-0.5 [Soil] Sampled 11/22/16 13:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:00	
8082 PCB	11/30/16 15:00	3	12/06/16 13:00	
T163017-59 B74-1.5 [Soil] Sampled 11/22/16 13:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-60 B74-2.5 [Soil] Sampled 11/22/16 13:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-61 B75-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:05	
T163017-62 B76-0.5 [Soil] Sampled 11/22/16 15:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:30	
T163017-63 B76-1.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-64 B76-2.5 [Soil] Sampled 11/22/16 15:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-65 DRUM [Soil] Sampled 11/22/16 16:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	11/30/16 15:00	3	05/21/17 16:10	
8015 Carbon Chain	11/30/16 15:00	3	12/06/16 16:10	
8081 Pesticides	11/30/16 15:00	3	12/06/16 16:10	
8260	11/30/16 15:00	3	12/06/16 16:10	+ OXY
T163017-66 COMP: B59,60,61-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 3:1

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies **Project Manager: Rose Fasheh**
Project: Grover Cleveland High School **Project Number: [none]**

Analysis	Due	TAT	Expires	Comments
T163017-67 COMP: B62,63,64-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US & 8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 3:1
T163017-68 COMP: B65,66-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US & 8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 2:1
T163017-69 COMP: B67,68-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US & 8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 2:1
T163017-70 COMP: B72,73-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US & 8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	COMPOSITE 2:1

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22 7470/71 Hg

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 11/30/16 17:00 (3 day TAT)

Received By: Sunny Lounethone

Date Received: 11/23/16 08:07

Logged In By: Sunny Lounethone

Date Logged In: 11/23/16 10:00

Samples Received at: **13.6°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T163017-01 B54-1.5 [Soil] Sampled 11/22/16 12:55 (GMT-08:00) Pacific Time (US & 6010 Pb	12/07/16 15:00	3	05/21/17 12:55	6010 Pb added per client request (Keith, 12/2)
T163017-02 B54-2.5 [Soil] Sampled 11/22/16 13:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-03 B55-0.5 [Soil] Sampled 11/22/16 13:15 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 8081 Pesticides	11/30/16 15:00 11/30/16 15:00	3 3	05/21/17 13:15 12/06/16 13:15	As, Pb only
T163017-04 B55-1.5 [Soil] Sampled 11/22/16 13:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-05 B55-2.5 [Soil] Sampled 11/22/16 13:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-06 B56-0.5 [Soil] Sampled 11/22/16 13:50 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 8081 Pesticides	11/30/16 15:00 11/30/16 15:00	3 3	05/21/17 13:50 12/06/16 13:50	As, Pb only

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-07 B57-0.5 [Soil] Sampled 11/22/16 09:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 09:50	
8082 PCB	11/30/16 15:00	3	12/06/16 09:50	
T163017-08 B57-1.5 [Soil] Sampled 11/22/16 10:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-09 B57-2.5 [Soil] Sampled 11/22/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-10 B58-0.5 [Soil] Sampled 11/22/16 11:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:40	As, Pb only
8015 Carbon Chain	11/30/16 15:00	3	12/06/16 11:40	
8081 Pesticides	11/30/16 15:00	3	12/06/16 11:40	
8082 PCB	11/30/16 15:00	3	12/06/16 11:40	
T163017-11 B58-1.5 [Soil] Sampled 11/22/16 11:50 (GMT-08:00) Pacific Time (US &				
6010 As added per client request (Keith, 12/2)				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:50	As ONLY
T163017-12 B58-2.5 [Soil] Sampled 11/22/16 11:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-13 B59-0.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:25	As, Pb only
T163017-14 B59-1.5 [Soil] Sampled 11/21/16 09:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-15 B59-2.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-16 B60-0.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:50	As, Pb only
T163017-17 B60-1.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-18 B60-2.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-19 B61-0.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:15	As, Pb only
T163017-20 B61-1.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-21 B61-2.5 [Soil] Sampled 11/22/16 10:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-22 B62-0.5 [Soil] Sampled 11/21/16 09:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:45	As, Pb only
T163017-23 B62-1.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-24 B62-2.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-25 B63-0.5 [Soil] Sampled 11/22/16 12:20 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 12:20	As, Pb only
T163017-26 B63-1.5 [Soil] Sampled 11/22/16 12:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-27 B63-2.5 [Soil] Sampled 11/22/16 12:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-28 B64-0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/21/17 11:10 As, Pb only)				
T163017-29 B64-1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-30 B64-2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-31 B65-0.5 [Soil] Sampled 11/22/16 08:25 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/21/17 08:25 As, Pb only)				
T163017-32 B65-1.5 [Soil] Sampled 11/22/16 08:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-33 B65-2.5 [Soil] Sampled 11/22/16 08:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-34 B66-0.5 [Soil] Sampled 11/22/16 08:50 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/21/17 08:50 As, Pb only)				
T163017-35 B66-1.5 [Soil] Sampled 11/22/16 08:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-36 B66-2.5 [Soil] Sampled 11/22/16 09:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-37 B67-0.5 [Soil] Sampled 11/22/16 09:15 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/21/17 09:15 As, Pb only)				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-38 B67-1.5 [Soil] Sampled 11/22/16 09:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-39 B67-2.5 [Soil] Sampled 11/22/16 09:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-40 B68-0.5 [Soil] Sampled 11/22/16 09:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:40	As, Pb only
T163017-41 B68-1.5 [Soil] Sampled 11/22/16 09:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-42 B68-2.5 [Soil] Sampled 11/22/16 09:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-43 B69-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:05	
T163017-44 B69-1.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-45 B69-2.5 [Soil] Sampled 11/22/16 15:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-46 B70-0.5 [Soil] Sampled 11/22/16 15:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:30	
8082 PCB	11/30/16 15:00	3	12/06/16 15:30	
T163017-47 B70-1.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-48 B70-2.5 [Soil] Sampled 11/22/16 15:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-49 B71-0.5 [Soil] Sampled 11/22/16 15:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:55	
T163017-50 B71-1.5 [Soil] Sampled 11/22/16 16:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-51 B71-2.5 [Soil] Sampled 11/22/16 16:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-52 B72-0.5 [Soil] Sampled 11/22/16 14:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:00	As, Pb only
T163017-53 B72-1.5 [Soil] Sampled 11/22/16 14:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-54 B72-2.5 [Soil] Sampled 11/22/16 14:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-55 B73-0.5 [Soil] Sampled 11/22/16 14:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:25	As, Pb only
T163017-56 B73-1.5 [Soil] Sampled 11/22/16 14:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-57 B73-2.5 [Soil] Sampled 11/22/16 14:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-58 B74-0.5 [Soil] Sampled 11/22/16 13:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:00	
8082 PCB	11/30/16 15:00	3	12/06/16 13:00	
T163017-59 B74-1.5 [Soil] Sampled 11/22/16 13:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-60 B74-2.5 [Soil] Sampled 11/22/16 13:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-61 B75-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:05	
T163017-62 B76-0.5 [Soil] Sampled 11/22/16 15:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:30	
T163017-63 B76-1.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-64 B76-2.5 [Soil] Sampled 11/22/16 15:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-65 DRUM [Soil] Sampled 11/22/16 16:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	11/30/16 15:00	3	11/27/16 16:10	
8015 Carbon Chain	11/30/16 15:00	3	12/06/16 16:10	
8081 Pesticides	11/30/16 15:00	3	12/06/16 16:10	
8260	11/30/16 15:00	3	12/06/16 16:10	+ OXY
T163017-66 COMP: B59,60,61-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 3:1 Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-67 COMP: B62,63,64-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 3:1				
Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
T163017-68 COMP: B65,66-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 2:1				
Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
T163017-69 COMP: B67,68-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 2:1				
Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
T163017-70 COMP: B72,73-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 2:1				
Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	

Analysis groups included in this work order	
<i>6010 Title 22</i>	
subgroup 6010B T22	7470/71 Hg

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 11/30/16 17:00 (3 day TAT)

Received By: Sunny Lounethone

Date Received: 11/23/16 08:07

Logged In By: Sunny Lounethone

Date Logged In: 11/23/16 10:00

Samples Received at: **13.6°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T163017-01 B54-1.5 [Soil] Sampled 11/22/16 12:55 (GMT-08:00) Pacific Time (US & 6010 Pb	12/07/16 15:00	3	05/21/17 12:55	6010 Pb added per client request (Keith, 12/2)
T163017-02 B54-2.5 [Soil] Sampled 11/22/16 13:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-03 B55-0.5 [Soil] Sampled 11/22/16 13:15 (GMT-08:00) Pacific Time (US & 6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:15	
T163017-04 B55-1.5 [Soil] Sampled 11/22/16 13:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-05 B55-2.5 [Soil] Sampled 11/22/16 13:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-06 B56-0.5 [Soil] Sampled 11/22/16 13:50 (GMT-08:00) Pacific Time (US & 6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:50	

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-07 B57-0.5 [Soil] Sampled 11/22/16 09:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 09:50	
8082 PCB	11/30/16 15:00	3	12/06/16 09:50	
T163017-08 B57-1.5 [Soil] Sampled 11/22/16 10:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-09 B57-2.5 [Soil] Sampled 11/22/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-10 B58-0.5 [Soil] Sampled 11/22/16 11:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:40	As, Pb only
8015 Carbon Chain	11/30/16 15:00	3	12/06/16 11:40	
8081 Pesticides	11/30/16 15:00	3	12/06/16 11:40	
8082 PCB	11/30/16 15:00	3	12/06/16 11:40	
T163017-11 B58-1.5 [Soil] Sampled 11/22/16 11:50 (GMT-08:00) Pacific Time (US &				
6010 As added per client request (Keith, 12/2)				
6010 Individual Metals	12/07/16 15:00	3	05/21/17 11:50	As ONLY
T163017-12 B58-2.5 [Soil] Sampled 11/22/16 11:55 (GMT-08:00) Pacific Time (US &				
6010 Arsenic added per client request (Keith, 12/8)				
6010 Individual Metals	12/13/16 15:00	3	05/21/17 11:55	As only
T163017-13 B59-0.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:25	As, Pb only
T163017-14 B59-1.5 [Soil] Sampled 11/21/16 09:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-15 B59-2.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-16 B60-0.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:50	As, Pb only
T163017-17 B60-1.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-18 B60-2.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-19 B61-0.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:15	As, Pb only
T163017-20 B61-1.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-21 B61-2.5 [Soil] Sampled 11/22/16 10:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-22 B62-0.5 [Soil] Sampled 11/21/16 09:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:45	As, Pb only
T163017-23 B62-1.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-24 B62-2.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-25 B63-0.5 [Soil] Sampled 11/22/16 12:20 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 12:20	As, Pb only
T163017-26 B63-1.5 [Soil] Sampled 11/22/16 12:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-27 B63-2.5 [Soil] Sampled 11/22/16 12:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-28 B64-0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
T163017-29 B64-1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-30 B64-2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-31 B65-0.5 [Soil] Sampled 11/22/16 08:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:25	As, Pb only
T163017-32 B65-1.5 [Soil] Sampled 11/22/16 08:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-33 B65-2.5 [Soil] Sampled 11/22/16 08:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-34 B66-0.5 [Soil] Sampled 11/22/16 08:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:50	As, Pb only
T163017-35 B66-1.5 [Soil] Sampled 11/22/16 08:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-36 B66-2.5 [Soil] Sampled 11/22/16 09:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163017-37 B67-0.5 [Soil] Sampled 11/22/16 09:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:15	As, Pb only

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-38 B67-1.5 [Soil] Sampled 11/22/16 09:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-39 B67-2.5 [Soil] Sampled 11/22/16 09:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-40 B68-0.5 [Soil] Sampled 11/22/16 09:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:40	As, Pb only
T163017-41 B68-1.5 [Soil] Sampled 11/22/16 09:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-42 B68-2.5 [Soil] Sampled 11/22/16 09:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-43 B69-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:05	
T163017-44 B69-1.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-45 B69-2.5 [Soil] Sampled 11/22/16 15:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-46 B70-0.5 [Soil] Sampled 11/22/16 15:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:30	
8082 PCB	11/30/16 15:00	3	12/06/16 15:30	
T163017-47 B70-1.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-48 B70-2.5 [Soil] Sampled 11/22/16 15:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-49 B71-0.5 [Soil] Sampled 11/22/16 15:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:55	
T163017-50 B71-1.5 [Soil] Sampled 11/22/16 16:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-51 B71-2.5 [Soil] Sampled 11/22/16 16:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-52 B72-0.5 [Soil] Sampled 11/22/16 14:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:00	As, Pb only
T163017-53 B72-1.5 [Soil] Sampled 11/22/16 14:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-54 B72-2.5 [Soil] Sampled 11/22/16 14:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-55 B73-0.5 [Soil] Sampled 11/22/16 14:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:25	As, Pb only
T163017-56 B73-1.5 [Soil] Sampled 11/22/16 14:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163017-57 B73-2.5 [Soil] Sampled 11/22/16 14:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-58 B74-0.5 [Soil] Sampled 11/22/16 13:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 13:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 13:00	
8082 PCB	11/30/16 15:00	3	12/06/16 13:00	
T163017-59 B74-1.5 [Soil] Sampled 11/22/16 13:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-60 B74-2.5 [Soil] Sampled 11/22/16 13:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-61 B75-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:05	
T163017-62 B76-0.5 [Soil] Sampled 11/22/16 15:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:30	
T163017-63 B76-1.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-64 B76-2.5 [Soil] Sampled 11/22/16 15:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163017-65 DRUM [Soil] Sampled 11/22/16 16:10 (GMT-08:00) Pacific Time (US &				
6010 Title 22	11/30/16 15:00	3	11/27/16 16:10	
8015 Carbon Chain	11/30/16 15:00	3	12/06/16 16:10	
8081 Pesticides	11/30/16 15:00	3	12/06/16 16:10	
8260	11/30/16 15:00	3	12/06/16 16:10	+ OXY
T163017-66 COMP: B59,60,61-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 3:1 Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	

WORK ORDER

T163017

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163017-67 COMP: B62,63,64-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 3:1				
Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
T163017-68 COMP: B65,66-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 2:1				
Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
T163017-69 COMP: B67,68-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 2:1				
Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
T163017-70 COMP: B72,73-0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) COMPOSITE 2:1				
Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	

Analysis groups included in this work order	
<i>6010 Title 22</i>	
subgroup 6010B T22	7470/71 Hg



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

12 April 2017

Keith Thompson
Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch, CA 92610
RE: Grover Cleveland High School

Enclosed are the results of analyses for samples received by the laboratory on 11/23/16 08:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
04/12/17 12:36

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B7-0.5	T163015-19	Soil	11/21/16 11:25	11/23/16 08:07
B37-0.5	T163016-29	Soil	11/21/16 13:35	11/23/16 08:07
B54-0.5	T163016-80	Soil	11/22/16 12:50	11/23/16 08:07

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
04/12/17 12:36

DETECTIONS SUMMARY

Sample ID: B7-0.5

Laboratory ID: T163015-19

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	6.7	0.20	mg/l	STLC Waste Extraction 1	

Sample ID: B37- 0.5

Laboratory ID: T163016-29

No Results Detected

Sample ID: B54- 0.5

Laboratory ID: T163016-80

No Results Detected

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 04/12/17 12:36
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B7-0.5
T163015-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

STLC Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	6.7	0.20	mg/l	2	7041034	04/10/17	04/12/17	STLC Waste Extraction Test	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 04/12/17 12:36
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B37- 0.5
T163016-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TCLP Metals by 6000/7000 Series Methods

Lead	ND	0.10	mg/l	1	7041035	04/10/17	04/12/17	EPA 1311	
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SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 04/12/17 12:36
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B54- 0.5
T163016-80 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TCLP Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	ND	0.10	mg/l	1	7041035	04/10/17	04/12/17	EPA 1311	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 04/12/17 12:36
--	--	-----------------------------

TCLP Metals by 6000/7000 Series Methods - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 7041035 - TCLP Metals

Blank (7041035-BLK1)				Prepared: 04/10/17 Analyzed: 04/12/17						
Lead	ND	0.10	mg/l							
LCS (7041035-BS1)				Prepared: 04/10/17 Analyzed: 04/12/17						
Lead	0.470	0.10	mg/l	0.500		93.9	75-125			
Matrix Spike (7041035-MS1)				Source: T170867-01 Prepared: 04/10/17 Analyzed: 04/12/17						
Lead	1.19	0.10	mg/l	0.500	0.347	168	75-125			QM-05
Matrix Spike Dup (7041035-MSD1)				Source: T170867-01 Prepared: 04/10/17 Analyzed: 04/12/17						
Lead	0.984	0.10	mg/l	0.500	0.347	127	75-125	18.8	30	QM-05

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 04/12/17 12:36
--	--	-----------------------------

STLC Metals by 6000/7000 Series Methods - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7041034 - STLC Metals

Blank (7041034-BLK1)		Prepared: 04/10/17 Analyzed: 04/12/17								
Lead	ND	0.10	mg/l							
LCS (7041034-BS1)		Prepared: 04/10/17 Analyzed: 04/12/17								
Lead	0.248	0.10	mg/l	0.250		99.1	75-125			
Matrix Spike (7041034-MS1)		Source: T170867-01		Prepared: 04/10/17 Analyzed: 04/12/17						
Lead	11.9	0.10	mg/l	0.250	8.60	NR	75-125			QM-01
Matrix Spike Dup (7041034-MSD1)		Source: T170867-01		Prepared: 04/10/17 Analyzed: 04/12/17						
Lead	12.3	0.10	mg/l	0.250	8.60	NR	75-125	3.77	30	QM-01

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
04/12/17 12:36

Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- QM-01 The % recovery is outside of established control limits due to matrix interference and/or sample dilution due to matrix effect. The batch was accepted based on acceptable LCS recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

CHAIN OF CUSTODY RECORD

7/63015

3-DAY



Site: Power Cleanlands High School Project Manager: MALVEY THOMPSON

Address: 8140 VAN ALDEN AVE.

Sampled By: MALVEY THOMPSON

RESEDA, CA

Laboratory: Sunstar

NORM (RUSH) EDF - YES (NO)

Page 1 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (Encore)	TPH EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	Lead EPA 8270C (a,b)	Pesticides PCB's EPA 8081/8082	Title 22 Metals	AD-5010 EPA 8260SM (a,b)
B1-0.5	01	1500	11/22	SOIL	J									X
B1-1.5	02	1505	11/22											
B1-2.5	03	1510	11/22											
B2-0.5	04	1400	11/21											X
B2-1.5	05	1410	11/21											
B2-2.5	06	1415	11/21											
B3-0.5	07	1430	11/21											X
B3-1.5	08	1435	11/21											
B3-2.5	09	1440	11/21											
B4-0.5	10	1010	11/21											X
B4-1.5	11	1020	11/21											
B4-2.5	12	1030	11/21											
B5-0.5	13	1045	11/21											X
B5-1.5	14	1055	11/21											
B5-2.5	15	1105	11/21											
B6-0.5	16	1505	11/22											X
B6-1.5	17	1515	11/22											
B6-2.5	18	1525	11/22											
B7-0.5	19	1125	11/21											X
B7-1.5	20	1135	11/21											X
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/23/16</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/16 08:07</u>		NOTES: <u>18.6</u>						

CHAIN OF CUSTODY RECORD

3-DAY



Site: SENIOR CENTER AND HIGH SCHOOL Project Manager: MALVEY THOMPSON
 Address: 8140 VAN HEDDEN AVE. Sampled By: MALVEY THOMPSON
 Laboratory: SESTA CA SW STAR

NORM/RUSH
 EDF - YES/NO

Page 2 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	STP EPA 8230C Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	Asbestos EPA 8260SIM ARSD
B7-2.5	21	1145	11/24	Soil	J									
B8-0.5	22	1510	11/22								X	X occ only	X	
B8-1.5	22	1515	11/22											
B8-2.5	24	1525	11/22											
B9-0.5	25	1535	11/22								X	X occ only	X	
B9-1.5	26	1540	11/22											
B9-2.5	27	1550	11/22											
B10-0.5	28	1610	11/22								X	X occ only	X	
B10-1.5	29	1620	11/22											
B10-2.5	30	1630	11/22											
B11-0.5	31	1540	11/22								X	X occ only	X	
B11-1.5	32	1530	11/22											
B11-2.5	33	1600	11/22											
B12-0.5	34	815	11/24								X	X occ only	X	
B12-1.5	35	825	11/24											
B12-2.5	36	835	11/24											
B13-0.5	37	850	11/24								X	X	X	
B13-1.5	38	900	11/24											
B13-2.5	39	910	11/24								X	X	X	
B14-0.5	40	925	11/24								X	X	X	
Relinquished By: <i>[Signature]</i>		Date/Time: 11/23/16		Received By: <i>[Signature]</i>		Date/Time: 11/23/16		Date/Time: 11/23/16		Date/Time: 8:07		NOTES: 13.6		

CHAIN OF CUSTODY RECORD

3-DAY



Site: SEWER CREEK AND HIGH SCHOOL **Project Manager:** MALVEY THOMPSON
Address: 8140 VAWATUBAN AVE. **Sampled By:** MALVEY THOMPSON
Relinquished By: RESERA CA **Laboratory:** SWUSTAR

Page 3 **of** 12
EDF - YES / NO YES NO
14-DAY YES NO

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J-Tube T = Tube V = VOA	EPA 5035 (Encore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8260A Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	14-DAY EPA 8260A ARSENIC
B14-1.5	41	940	11/24	Soil	J									
B14-2.5	42	950	11/24											
B15-0.5	42	1005	11/24											
B15-1.5	44	1015	11/27											
B15-2.5	45	1025	11/21											
B16-0.5	46	1405	11/22											
B16-1.5	47	1415	11/22											
B16-2.5	48	1425	11/22											
B17-0.5	49	955	11/21											
B17-1.5	50	1005	11/21											
B17-2.5	51	1015	11/21											
B18-0.5	52	840	11/21											
B18-1.5	52	850	11/21											
B18-2.5	54	900	11/21											
B19-0.5	55	915	11/21											
B19-1.5	56	925	11/21											
B19-2.5	57	940	11/21											
B20-0.5	58	1310	11/21											
B20-1.5	58	1320	11/21											
B20-2.5	59	1330	11/21											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/23</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/16 08:07</u>		Notes: <u>13.6</u>						

CHAIN OF CUSTODY RECORD

7/63015

3-044



Site: GENERAL CENTER AND HIGH SCHOOL Project Manager: MALVEY THOMPSON
 Address: 8140 WILKINSON AVE. Sampled By: MALVEY THOMPSON
 Laboratory: RESEDA, CA SUMSTAR

NORM RUSH
 EDF - YES NO
 Page 4 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/W/O EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SWPC EPA 8270P Lead	Pesticides EPA 8081/8082	Title 22 Metals	1,4-Dioxane EPA 8260SM ARSENIC
B21-0.5	61	1340	11/21	Soil	J									
B21-1.5	62	1350	11/21											
B21-2.5	63	1400	11/21											
B22-0.5	64	1450	11/21											
B22-1.5	65	1455	11/21											
B22-2.5	66	1505	11/21											
B23-0.5	67	1030	11/21											
B23-1.5	68	1040	11/21											
B23-2.5	69	1050	11/21											
B24-0.5	70	1410	11/21											
B24-1.5	71	1420	11/21											
B24-2.5	72	1430	11/21											
B25-0.5	73	1190	11/21											
B25-1.5	74	1105	11/21											
B25-2.5	75	1115	11/21											
B26-0.5	76	1125	11/21											
B26-1.5	77	1135	11/21											
B26-2.5	78	1180	11/21											
B27-0.5	79	905	11/22											
B27-1.5	80	755	11/22											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/23</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/16</u>		Date/Time: <u>08:07</u>		NOTES: <u>13.6</u>				



SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T168015

Client Name: Pinnacle Project: GROVER CLEVELAND HIGH SCHOOL

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: BELAN Date/Time Lab Received: 11-23-16 / 8:57

Total number of coolers received: 2

Temperature: Cooler #1	13.8	°C +/- the CF (- 0.2°C) =	13.6	°C corrected temperature
Temperature: Cooler #2	14.2	°C +/- the CF (- 0.2°C) =	14.0	°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If NO:				
Samples received on ice?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No →	Complete Non-Conformance Sheet	
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No →	Complete Non-Conformance Sheet	

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: SL 11-23-16

Comments: _____

PEA EQUIVALENT SAMPLING TABLE
 Grover Cleveland Charter High School
 8410 Varalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses	
Building K (MPR and Lunch Pavilion)	Removal	Historical Agriculture	Targeted Perimeter	1	B1	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	4	
Utility Building	Removal	Historical Agriculture	Targeted Perimeter	1	B6	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	
Building L	Removal	Historical Agriculture	Targeted Perimeter	2	B8, B9	TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5'	2	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
Interceptor	Removal	Vessel/line releases	Targeted to potential release points	2	SV1, SV2 (soil vapor)	TPH (Full-Scan) - EPA Method 8015m	5', 10', 15'	2	
						VOCs - EPA Method 8260B	5', 10', 15'	2	
North Parking Lot	Removal, New Road	Historical Agriculture	Areal Coverage	2	B12, B13	Tile 22 Metals	5', 10', 15'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
Buildings A-810 to A-815, AA-1001, AA-1654, AA-1999, AA-962, AA-964	Removal	Historical Agriculture	Areal Coverage of Similar Structures	16	B14-B29	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Historical Agriculture	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Historical Pesticides	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	16
Buildings C, H, J and P, Building AA-2366	Removal	Historical Agriculture	Targeted Perimeter	9	B30-B38	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	9	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	9
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	9
Access Road	Removal	Historical Agriculture	Composite to one sample for OCPs only	2	B39, B40	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
		Asbestos and Lead				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Transformers, Buildings C and P	Removal	potential PCBs in transformers	Targeted	2	B41, B42	PCBs - EPA Method 8082	0.5', 1.5', 2.5'	2
Tree wells south of Building J	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B43-B45	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Planters west of Chem Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B46, B47	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Chemistry Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	2	B48, B49	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Buildings AA-2199 and 2200, AA-3882 through AA-3887	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Areal Coverage of Similar Structures	8	B50-B57	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	8
Drain at storage locker	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead Hazmat storage	Targeted to potential release point	1	B58	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	1
Three lawn areas along access road	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B59-B61	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Access Road west of lawn areas	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B62-B64	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B65, B66	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B67, B68	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Buildings AA-2730 and A-751	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B69-B71	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B72, B73	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1
Buildings AA-3888 and AA-3889	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B74-B76	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3

Total Number of Borings 78
 Locations Requiring Coring 63

Rose Fasheh

From: Keith Thompson [ktpinnacle@cox.net]
Sent: Monday, April 10, 2017 10:29 AM
To: Rose Fasheh
Subject: Re: Additional STLC/TCLP for Grover Cleveland High School (T163015 and T163016)

Got it.

I passed it on to Brian at Belshire.

KT

On Apr 10, 2017, at 8:54 AM, Rose Fasheh wrote:

Good morning Keith,

We had an issue with the tumbler this weekend so your samples did not tumble. Unfortunately, this means I will not have the results for the TCLP samples until tomorrow and the STLC sample until Wednesday. I am sorry for the inconvenience this may cause. Let me know if you have any questions.

Thank you,

Rose Fasheh
Project Manager
<image001.jpg>

25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

From: Keith Thompson [<mailto:ktpinnacle@cox.net>]
Sent: Friday, April 07, 2017 4:00 PM
To: Rose Fasheh
Subject: Re: Additional STLC/TCLP for Grover Cleveland High School (T163015 and T163016)

Thx rose

Sent from my iPhone

On Apr 7, 2017, at 1:39 PM, Rose Fasheh <Rose@sunstarlabs.com> wrote:

Hello Keith,

As per our phone conversation, I have added in:

- STLC Pb analysis for sample B7-0.5 (T163015-19) [initial 6010 Pb reading of 88mg/kg]
- TCLP Pb analysis for samples B37-0.5 (T163016-29) [initial 6010 Pb reading of 190mg/kg]
- TCLP Pb analysis for samples B54-0.5 (T163016-80) [initial 6010 Pb reading of 150mg/kg]

Work orders attached for reference. I will have the results to you before COB Monday 4/10. Let me know if you have any questions.

Thank you,

Rose Fasheh
Project Manager
<image001.jpg>

25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

From: Rose Fasheh [<mailto:Rose@sunstarlabs.com>]
Sent: Wednesday, November 30, 2016 5:05 PM
To: 'ktpinnacle@cox.net'
Cc: 'accounting@sunstarlabs.com'; 'mike@sunstarlabs.com'
Subject: Final Reports and Invoices for Grover Cleveland High School (T163015 and T163016)

Hello Keith,

Please see the attached final reports and invoices for the following:

Project: Grover Cleveland High School
Project Number: n/a

I noticed several samples with significant hits for lead. Let me know if you need any additional testing.

The last of set of samples will be sent out shortly.

Thank you for choosing SunStar Labs.

Rose Fasheh- Project Manager
SunStar Laboratories, Inc.
25712 Commercentre Drive, Lake Forest, CA, 92630
Office: (949) 297-5020 Fax: (949) 297-5027
Email: Rose@sunstarlabs.com

<T163015_WKO_03.pdf>

<T163016_WKO_03.pdf>

CHAIN OF CUSTODY RECORD

3-DAY



Site: GRAVER CLEARLAND HIGH SCHOOL
 Address: 8140 VANDERBILT AVE.

Project Manager: MALVEY THOMPSON
 Sampled By: MALVEY THOMPSON

Reseda CA 91330
 Laboratory: SUNSTAR

NORM / RUSH
 EDF - YES (NO)
 Page 5 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Organics EPA 8260B	SYOG EPA 8270C Lead	Pesticides PCB's EPA 8081/8082	Title 22 Metals	14-Benzenes EPA 8260M Residue
B28-0.5	01	815	11/21	Soil	J									
B28-1.5	02	825	11/21											
B28-2.5	03	840	11/21											
B29-0.5	04	855	11/21											
B29-1.5	05	905	11/21											
B29-2.5	06	920	11/21											
B27-2.5	07	805	11/22											
B30-0.5	08	930	11/21											
B30-1.5	09	935	11/21											
B30-2.5	10	950	11/21											
B31-0.5	11	1000	11/21											
B31-1.5	12	1010	11/21											
B31-2.5	13	1020	11/21											
B32-0.5	14	1030	11/21											
B32-1.5	15	1040	11/21											
B32-2.5	16	1050	11/21											
B33-0.5	17	1105	11/21											
B33-1.5	18	1110	11/21											
B33-2.5	19	1120	11/21											
B34-0.5	20	1000	11/22											
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/23</u>		Received By: <u>[Signature]</u>		Date/Time: <u>11/23/16 08:07</u>		NOTES:						

CHAIN OF CUSTODY RECORD

3-DAY



Site: GRAVEL CLEAVLAND HIGH SCHOOL **Project Manager:** MALVEY THOMPSON
Address: 8140 VALLEJO AVE. **Sampled By:** MALVEY THOMPSON
RESEDA CA **Laboratory:** SWISTER **Received By:** [Signature]

Page 6 **of** 12
NORM **(RUSH)**
EDF - YES **(NO)**

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8260B	Pesticides PCBs EPA 8081/8082	Title 22 Metals	1,4-Dioxane EPA 8260B/4
B34-1.5	21	1010	11/22	Soil	J									
B34-2.5	22	1020	11/22											
B35-0.5	23	1510	11/21											
B35-1.5	24	1520	11/21											
B35-2.5	25	1530	11/21											
B36-0.5	26	1510	11/22											
B36-1.5	27	1515	11/22											
B36-2.5	28	1525	11/22											
B37-0.5	29	1335	11/21											
B37-1.5	30	1345	11/21											
B37-2.5	31	1400	11/21											
B38-0.5	32	1305	11/21											
B38-1.5	33	1310	11/21											
B38-2.5	34	1320	11/21											
B39-0.5	35	1410	11/22											
B39-1.5	36	1420	11/22											
B39-2.5	37	1430	11/22											
B40-0.5	38	1110	11/22											
B40-1.5	39	1120	11/22											
B40-2.5	40	1130	11/22											

Relinquished By: [Signature] **Date/Time:** 11/23/16 **Received By:** [Signature] **Date/Time:** 11/23/16
Relinquished By: [Signature] **Date/Time:** 11/23/16 **Received By:** [Signature] **Date/Time:** 11/23/16

NOTES:

B39-0.5 / only on
 B39-1.5 / composite
 B39-2.5 / composite
 B40-0.5
 B40-1.5
 B40-2.5

CHAIN OF CUSTODY RECORD

3-044



Site: Graver Cleveand High School Project Manager: MALVEY THOMPSON
 Address: 8140 VANDERBEN AVE Sampled By: MALVEY THOMPSON
RESEDA CA 91326 Laboratory: SUNSTAR

NORM (RUSH)
 EDF - YES (NO)
 Page 7 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270 Lead	Pesticides PCBs EPA 8081/8082	Title 22 Metals	Lab EPA-8210M EPA-8211M EPA-8212M
B41-0.5	41	1040	11/22	Soil	J								X PCBs only	
B41-1.5	42	1045	11/22											
B41-2.5	43	1055	11/22											
B42-0.5	44	1205	11/22										X PCBs only	
B42-1.5	45	1215	11/22											
B42-2.5	46	1225	11/22											
B43-0.5	47	905	11/21										X	
B43-1.5	48	810	11/21											
B43-2.5	49	820	11/21										X	
B44-0.5	50	830	11/21										X	
B44-1.5	51	835	11/21										X	
B44-2.5	52	845	11/21										X	
B45-0.5	53	855	11/21										X	
B45-1.5	54	905	11/21										X	
B45-2.5	55	915	11/21										X	
B46-0.5	56	810	11/21										X	
B46-1.5	57	815	11/21										X	
B46-2.5	58	830	11/21										X	
B47-0.5	59	840	11/21										X	
B47-1.5	60	845	11/21										X	
Relinquished By: <u>[Signature]</u>		Date/Time: <u>11/23/10</u>	Received By: <u>[Signature]</u>	Date/Time: <u>11/23/10 08:07</u>	NOTES:									

CHAIN OF CUSTODY RECORD

3-DAY



Site: GREYER CLEVELAND HS 64 SCHOOL
 Address: 8140 VAN ALDER AVE

Project Manager: MALVEY THOMPSON
 Sampled By: MALVEY THOMPSON

NORM (RUSH)
 EDF - YES (NO)

LABORATORY ID: RES EDA CA 7163016

Laboratory: SWITZER

Page 8 of 12

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (Encore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270B	Pesticides PCB's EPA 8081/8082	Title 22 Metals	Lab Storage EPA 8260SM 42520C
B47-2.5	61	855	11/21	Soil	J									
B48-0.5	62	655	11/22											
B48-1.5	63	705	11/22											
B48-2.5	64	715	11/22											
B49-0.5	65	725	11/22											
B49-1.5	66	735	11/22											
B49-2.5	67	745	11/22											
B50-0.5	68	745	11/22											
B50-1.5	69	1455	11/22											
B50-2.5	70	1505	11/22											
B51-0.5	71	1110	11/22											
B51-1.5	72	1120	11/22											
B51-2.5	73	1130	11/22											
B52-0.5	74	930	11/22											
B52-1.5	75	940	11/22											
B52-2.5	76	950	11/22											
B53-0.5	77	800	11/22											
B53-1.5	78	805	11/22											
B53-2.5	79	815	11/22											
B54-0.5	80	1250	11/22											

Relinquished By: [Signature] Date/Time: 11/24/16
 Received By: [Signature] Date/Time: 11/23/16 08:07

NOTES: OCAs only

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T163016

Client Name: PINNACLE Project: GROUPER CLEVELAND HS.

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: BRIAN Date/Time Lab Received: 11-23-16 8:07

Total number of coolers received:

Temperature: Cooler #1	13.5	°C +/- the CF (- 0.2°C) =	13.3	°C corrected temperature
Temperature: Cooler #2		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature: Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria?		<input type="checkbox"/> Yes <input type="checkbox"/> No
If NO:				
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet		
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet		

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: BC 11-23-16

Comments:

SAMPLE NON-CONFORMANCE SHEET

Batch/Work Order # _____

▪ **COOLERS**

- Not Received (received COC only)
- Leaking/Damaged
- Other:

▪ **CUSTODY SEALS**

- None
- Not Intact

▪ **TEMPERATURE (Temp criteria = $\leq 6^{\circ}\text{C}$)**

- Cooler/Sample Temp(s)
- Temperature Blank(s)

▪ **CHAIN OF CUSTODY (COC)**

- Not relinquished by client; No date/time relinquished
- Incomplete information provided
- COC not received – notify PM

▪ **CONTAINERS**

- Leaking Broken
- Extra Missing

▪ **LABELS**

- Not the same sample ID / info as on the COC
- Incomplete Information
- Markings/Info illegible

▪ **SAMPLES**

- Samples **NOT RECEIVED** but listed on COC
- Samples received but **NOT LISTED** on COC
- Logged based on Label Information and not COC
- Logged according to Work Plan and not COC
- Logged in, **ON HOLD** until further notice
- Insufficient quantities for analysis
- Improper container used
- Mislabeled as to tests, preservatives, etc.
- Holding time expired – list sample ID and test
- Not preserved/Improper preservative used
- Without Labels, no information on containers
- Other

Comments: TWO SAMPLE JARS ARE MISSING # 60 B47-1.5 , # 61 B47-2.5

Sample fractioning only if broken container compromises other samples or if out of temp reading impacts more than one cooler

Fraction													Preser.
VOA													

PEA EQUIVALENT SAMPLING TABLE
 Grover Cleveland Charter High School
 8410 Varalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses	
Building K (MPR and Lunch Pavilion)	Removal	Historical Agriculture	Targeted Perimeter	1	B1	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	4	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	4	
Utility Building	Removal	Historical Agriculture	Targeted Perimeter	1	B6	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	1	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	
Building L	Removal	Historical Agriculture	Targeted Perimeter	2	B8, B9	TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5'	2	
		Historical Pesticides				Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Historical Agriculture				Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
		Historical Pesticides				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
Interceptor	Removal	Vessel/line releases	Targeted to potential release points	2	SV1, SV2 (soil vapor)	TPH (Full-Scan) - EPA Method 8015m	5', 10', 15'	2	
						VOCs - EPA Method 8260B	5', 10', 15'	2	
North Parking Lot	Removal, New Road	Historical Agriculture	Areal Coverage	2	B12, B13	Tile 22 Metals	5', 10', 15'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
Buildings A-810 to A-815, AA-1001, AA-1654, AA-1999, AA-962, AA-964	Removal	Historical Agriculture	Areal Coverage of Similar Structures	16	B14-B29	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Historical Agriculture	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	16
						Historical Pesticides	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	16
Buildings C, H, J and P, Building AA-2366	Removal	Historical Agriculture	Targeted Perimeter	9	B30-B38	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	9	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	9
						Asbestos and Lead	OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	9
Access Road	Removal	Historical Agriculture	Composite to one sample for OCPs only	2	B39, B40	Lead - EPA Method 6010/6020	0.5', 1.5', 2.5'	2	
						Historical Pesticides	Arsenic - EPA Method 6010/6020	0.5', 1.5', 2.5'	2
		Asbestos and Lead				OCPs - EPA Method 8081A	0.5', 1.5', 2.5'	1	

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Transformers, Buildings C and P	Removal	potential PCBs in transformers	Targeted	2	B41, B42	PCBs - EPA Method 8082	0.5', 1.5', 2.5'	2
Tree wells south of Building J	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B43-B45	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Planters west of Chem Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B46, B47	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Chemistry Lab	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	2	B48, B49	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Buildings AA-2199 and 2200, AA-3882 through AA-3887	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Areal Coverage of Similar Structures	8	B50-B57	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	8
Drain at storage locker	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead Hazard storage	Targeted to potential release point	1	B58	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A TPH (Full-Scan) - EPA Method 8015m	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	1
Three lawn areas along access road	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B59-B61	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Access Road west of lawn areas	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	3	B62-B64	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B65, B66	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B67, B68	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2

PEA EQUIVALENT SAMPLING TABLE

Grover Cleveland Charter High School
 8410 Vanalden Avenue
 Reseda, CA 91335

Building or Area	Proposed Work	Concerns	Sampling Rationale	Number of Boring Locations	Boring Numbers	Analytical Methods	Sample Depths	Initial Analyses
Buildings AA-2730 and A-751	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B69-B71	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3
Future road along east fence line	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Composite to one sample for OCPs only	2	B72, B73	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	2 2 1
Buildings AA-3888 and AA-3889	Removal	Historical Agriculture Historical Pesticides Asbestos and Lead	Targeted Perimeter	3	B74-B76	Lead - EPA Method 6010/6020 Arsenic - EPA Method 6010/6020 OCPs - EPA Method 8081A	0.5', 1.5', 2.5' 0.5', 1.5', 2.5' 0.5', 1.5', 2.5'	3 3 3

Total Number of Borings 78
 Locations Requiring Coring 63

Rose Fasheh

From: Keith Thompson [ktpinnacle@cox.net]
Sent: Monday, April 10, 2017 10:29 AM
To: Rose Fasheh
Subject: Re: Additional STLC/TCLP for Grover Cleveland High School (T163015 and T163016)

Got it.

I passed it on to Brian at Belshire.

KT

On Apr 10, 2017, at 8:54 AM, Rose Fasheh wrote:

Good morning Keith,

We had an issue with the tumbler this weekend so your samples did not tumble. Unfortunately, this means I will not have the results for the TCLP samples until tomorrow and the STLC sample until Wednesday. I am sorry for the inconvenience this may cause. Let me know if you have any questions.

Thank you,

Rose Fasheh
Project Manager
<image001.jpg>

25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

From: Keith Thompson [<mailto:ktpinnacle@cox.net>]
Sent: Friday, April 07, 2017 4:00 PM
To: Rose Fasheh
Subject: Re: Additional STLC/TCLP for Grover Cleveland High School (T163015 and T163016)

Thx rose

Sent from my iPhone

On Apr 7, 2017, at 1:39 PM, Rose Fasheh <Rose@sunstarlabs.com> wrote:

Hello Keith,

As per our phone conversation, I have added in:

- STLC Pb analysis for sample B7-0.5 (T163015-19) [initial 6010 Pb reading of 88mg/kg]
- TCLP Pb analysis for samples B37-0.5 (T163016-29) [initial 6010 Pb reading of 190mg/kg]
- TCLP Pb analysis for samples B54-0.5 (T163016-80) [initial 6010 Pb reading of 150mg/kg]

Work orders attached for reference. I will have the results to you before COB Monday 4/10. Let me know if you have any questions.

Thank you,

Rose Fasheh
Project Manager
<image001.jpg>

25712 Commercentre Dr., Lake Forest, CA 92630
Office: (949) 297-5020 | Fax: (949) 297-5027
CA ELAP Certification: 2250 | CA Small Business Certification: 31511

From: Rose Fasheh [<mailto:Rose@sunstarlabs.com>]
Sent: Wednesday, November 30, 2016 5:05 PM
To: 'ktpinnacle@cox.net'
Cc: 'accounting@sunstarlabs.com'; 'mike@sunstarlabs.com'
Subject: Final Reports and Invoices for Grover Cleveland High School (T163015 and T163016)

Hello Keith,

Please see the attached final reports and invoices for the following:

Project: Grover Cleveland High School
Project Number: n/a

I noticed several samples with significant hits for lead. Let me know if you need any additional testing.

The last of set of samples will be sent out shortly.

Thank you for choosing SunStar Labs.

Rose Fasheh- Project Manager
SunStar Laboratories, Inc.
25712 Commercentre Drive, Lake Forest, CA, 92630
Office: (949) 297-5020 Fax: (949) 297-5027
Email: Rose@sunstarlabs.com

<T163015_WKO_03.pdf>

<T163016_WKO_03.pdf>

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Report To:
 Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due:	11/30/16 17:00 (3 day TAT)	Date Received:	11/23/16 08:07
Received By:	Brian Charon	Date Logged In:	11/23/16 09:16
Logged In By:	Sunny Lounethone		

Samples Received at: 13.6°C			
Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
T163015-01 B1-0.5 [Soil] Sampled 11/22/16 15:00 (GMT-08:00) Pacific Time (US				
&				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:00	As only
T163015-02 B1-1.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US				
&				
[NO ANALYSES]				
T163015-03 B1-2.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US				
&				
[NO ANALYSES]				
T163015-04 B2-0.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US				
&				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:00	
T163015-05 B2-1.5 [Soil] Sampled 11/21/16 14:10 (GMT-08:00) Pacific Time (US				
&				
[NO ANALYSES]				
T163015-06 B2-2.5 [Soil] Sampled 11/21/16 14:15 (GMT-08:00) Pacific Time (US				
&				
[NO ANALYSES]				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-07 B3-0.5 [Soil] Sampled 11/21/16 14:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:30	
T163015-08 B3-1.5 [Soil] Sampled 11/21/16 14:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-09 B3-2.5 [Soil] Sampled 11/21/16 14:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-10 B4-0.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:10	
T163015-11 B4-1.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-12 B4-2.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-13 B5-0.5 [Soil] Sampled 11/21/16 10:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:45	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:45	
8082 PCB	11/30/16 15:00	3	12/05/16 10:45	
T163015-14 B5-1.5 [Soil] Sampled 11/21/16 10:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-15 B5-2.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-16 B6-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As only

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-17 B6-1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-18 B6-2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-19 B7-0.5 [Soil] Sampled 11/21/16 11:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:25	As, Pb only
8015 Carbon Chain	11/30/16 15:00	3	12/05/16 11:25	
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:25	
T163015-20 B7-1.5 [Soil] Sampled 11/21/16 11:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-21 B7-2.5 [Soil] Sampled 11/21/16 11:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-22 B8-0.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:10	
T163015-23 B8-1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-24 B8-2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-25 B9-0.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:35	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:35	
T163015-26 B9-1.5 [Soil] Sampled 11/22/16 15:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-27 B9-2.5 [Soil] Sampled 11/22/16 15:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-28 B10-0.5 [Soil] Sampled 11/22/16 16:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 16:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 16:10	
T163015-29 B10-1.5 [Soil] Sampled 11/22/16 16:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-30 B10-2.5 [Soil] Sampled 11/22/16 16:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-31 B11-0.5 [Soil] Sampled 11/22/16 15:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:40	
T163015-32 B11-1.5 [Soil] Sampled 11/22/16 15:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-33 B11-2.5 [Soil] Sampled 11/22/16 16:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-34 B12-0.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:15	
T163015-35 B12-1.5 [Soil] Sampled 11/21/16 08:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-36 B12-2.5 [Soil] Sampled 11/21/16 08:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-37 B13-0.5 [Soil] Sampled 11/21/16 08:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:50	
8082 PCB	11/30/16 15:00	3	12/05/16 08:50	
T163015-38 B13-1.5 [Soil] Sampled 11/21/16 09:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-39 B13-2.5 [Soil] Sampled 11/21/16 09:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-40 B14-0.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:25	
T163015-41 B14-1.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-42 B14-2.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-43 B15-0.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:05	
T163015-44 B15-1.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-45 B15-2.5 [Soil] Sampled 11/21/16 10:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-46 B16-0.5 [Soil] Sampled 11/22/16 14:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 14:05	
T163015-47 B16-1.5 [Soil] Sampled 11/22/16 14:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-48 B16-2.5 [Soil] Sampled 11/22/16 14:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-49 B17-0.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:55	
T163015-50 B17-1.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-51 B17-2.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-52 B18-0.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:40	
T163015-53 B18-1.5 [Soil] Sampled 11/21/16 08:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-54 B18-2.5 [Soil] Sampled 11/21/16 09:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-55 B19-0.5 [Soil] Sampled 11/21/16 09:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:15	

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-56 B19-1.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-57 B19-2.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-58 B20-0.5 [Soil] Sampled 11/21/16 13:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:10	
T163015-59 B20-1.5 [Soil] Sampled 11/21/16 13:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-60 B20-2.5 [Soil] Sampled 11/21/16 13:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-61 B21-0.5 [Soil] Sampled 11/21/16 13:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:40	
T163015-62 B21-1.5 [Soil] Sampled 11/21/16 13:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-63 B21-2.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-64 B22-0.5 [Soil] Sampled 11/21/16 14:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:50	
T163015-65 B22-1.5 [Soil] Sampled 11/21/16 14:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-66 B22-2.5 [Soil] Sampled 11/21/16 15:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-67 B23-0.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:30	
T163015-68 B23-1.5 [Soil] Sampled 11/21/16 10:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-69 B23-2.5 [Soil] Sampled 11/21/16 10:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-70 B24-0.5 [Soil] Sampled 11/21/16 14:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:10	
T163015-71 B24-1.5 [Soil] Sampled 11/21/16 14:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-72 B24-2.5 [Soil] Sampled 11/21/16 14:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-73 B25-0.5 [Soil] Sampled 11/21/16 11:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:00	
T163015-74 B25-1.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-75 B25-2.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-76 B26-0.5 [Soil] Sampled 11/21/16 11:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:25	

T163015-77 B26-1.5 [Soil] Sampled 11/21/16 11:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

T163015-78 B26-2.5 [Soil] Sampled 11/21/16 11:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

T163015-79 B27-0.5 [Soil] Sampled 11/22/16 07:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 07:45	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 07:45	

T163015-80 B27-1.5 [Soil] Sampled 11/22/16 07:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Report To:
 Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due:	11/30/16 17:00 (3 day TAT)		
Received By:	Brian Charon	Date Received:	11/23/16 08:07
Logged In By:	Brian Charon	Date Logged In:	11/23/16 09:17

Samples Received at:	13.3°C		
Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
T163016-01 B28-0.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:15	
T163016-02 B28- 1.5 [Soil] Sampled 11/21/16 08:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-03 B28- 2.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-04 B29- 0.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:55	
T163016-05 B29- 1.5 [Soil] Sampled 11/21/16 09:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-06 B29- 2.5 [Soil] Sampled 11/21/16 09:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-07 B27- 2.5 [Soil] Sampled 11/22/16 08:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-08 B30- 0.5 [Soil] Sampled 11/21/16 09:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:30	
T163016-09 B30- 1.5 [Soil] Sampled 11/21/16 09:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-10 B30- 2.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-11 B31- 0.5 [Soil] Sampled 11/21/16 10:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:00	
T163016-12 B31- 1.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-13 B31- 2.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-14 B32- 0.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:30	
T163016-15 B32- 1.5 [Soil] Sampled 11/21/16 10:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-16 B32- 2.5 [Soil] Sampled 11/21/16 10:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-17 B33- 0.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:05	
T163016-18 B33- 1.5 [Soil] Sampled 11/21/16 11:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-19 B33- 2.5 [Soil] Sampled 11/21/16 11:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-20 B34- 0.5 [Soil] Sampled 11/22/16 10:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 10:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 10:00	
8082 PCB	11/30/16 15:00	3	12/06/16 10:00	
T163016-21 B34- 1.5 [Soil] Sampled 11/22/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-22 B34- 2.5 [Soil] Sampled 11/22/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-23 B35- 0.5 [Soil] Sampled 11/21/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 15:10	
T163016-24 B35- 1.5 [Soil] Sampled 11/21/16 15:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-25 B35- 2.5 [Soil] Sampled 11/21/16 15:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-26 B36- 0.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:10	
T163016-27 B36- 1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-28 B36- 2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-29 B37- 0.5 [Soil] Sampled 11/21/16 13:35 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:35	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:35	
T163016-30 B37- 1.5 [Soil] Sampled 11/21/16 13:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-31 B37- 2.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-32 B38- 0.5 [Soil] Sampled 11/21/16 13:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:05	
T163016-33 B38- 1.5 [Soil] Sampled 11/21/16 13:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-34 B38- 2.5 [Soil] Sampled 11/21/16 13:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-35 B39- 0.5 [Soil] Sampled 11/22/16 14:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:10	As, Pb only

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-36 B39- 1.5 [Soil] Sampled 11/22/16 14:20 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-37 B39- 2.5 [Soil] Sampled 11/22/16 14:30 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-38 B40- 0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time				
(US & 6010 Individual Metals				
	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
T163016-39 B40- 1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-40 B40- 2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-41 B41- 0.5 [Soil] Sampled 11/22/16 10:40 (GMT-08:00) Pacific Time				
(US & 8082 PCB				
	11/30/16 15:00	3	12/06/16 10:40	
T163016-42 B41- 1.5 [Soil] Sampled 11/22/16 10:45 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-43 B41- 2.5 [Soil] Sampled 11/22/16 10:55 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-44 B42- 0.5 [Soil] Sampled 11/22/16 12:05 (GMT-08:00) Pacific Time				
(US & 8082 PCB				
	11/30/16 15:00	3	12/06/16 12:05	
T163016-45 B42- 1.5 [Soil] Sampled 11/22/16 12:15 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				
T163016-46 B42- 2.5 [Soil] Sampled 11/22/16 12:25 (GMT-08:00) Pacific Time				
(US & [NO ANALYSES])				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-47 B43- 0.5 [Soil] Sampled 11/21/16 08:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:05	As, Pb only
T163016-48 B43- 1.5 [Soil] Sampled 11/21/16 08:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-49 B43- 2.5 [Soil] Sampled 11/21/16 08:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-50 B44- 0.5 [Soil] Sampled 11/21/16 08:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:30	As, Pb only
T163016-51 B44- 1.5 [Soil] Sampled 11/21/16 08:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-52 B44- 2.5 [Soil] Sampled 11/21/16 08:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-53 B45- 0.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:55	As, Pb only
T163016-54 B45- 1.5 [Soil] Sampled 11/21/16 09:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-55 B45- 2.5 [Soil] Sampled 11/21/16 09:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-56 B46- 0.5 [Soil] Sampled 11/21/16 08:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:10	As, Pb only
T163016-57 B46- 1.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-58 B46- 2.5 [Soil] Sampled 11/21/16 08:30 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-59 B47- 0.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:40	As, Pb only
T163016-60 B47- 1.5 [Soil] Sampled 11/21/16 08:45 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-61 B47- 2.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-62 B48- 0.5 [Soil] Sampled 11/22/16 08:55 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 08:55	
T163016-63 B48- 1.5 [Soil] Sampled 11/22/16 07:05 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-64 B48- 2.5 [Soil] Sampled 11/22/16 07:15 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-65 B49- 0.5 [Soil] Sampled 11/22/16 07:25 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 07:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 07:25	
T163016-66 B49- 1.5 [Soil] Sampled 11/22/16 07:35 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163016-67 B49- 2.5 [Soil] Sampled 11/22/16 07:45 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-68 B50- 0.5 [Soil] Sampled 11/22/16 14:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 14:50	
T163016-69 B50- 1.5 [Soil] Sampled 11/22/16 14:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-70 B50- 2.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-71 B51- 0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 11:10	
T163016-72 B51- 1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-73 B51- 2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-74 B52- 0.5 [Soil] Sampled 11/22/16 09:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 09:30	
T163016-75 B52- 1.5 [Soil] Sampled 11/22/16 09:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-76 B52- 2.5 [Soil] Sampled 11/22/16 09:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-77 B53- 0.5 [Soil] Sampled 11/22/16 08:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 08:00	

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-78 B53- 1.5 [Soil] Sampled 11/22/16 08:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-79 B53- 2.5 [Soil] Sampled 11/22/16 08:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-80 B54- 0.5 [Soil] Sampled 11/22/16 12:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 12:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 12:50	
T163016-81 Composite B39,B40- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00)2:1 Comp Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
T163016-82 Composite B43,B44, B45- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US & 3:1 Comp				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
T163016-83 Composite B46,B47- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00)2:1 Comp Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 11/30/16 17:00 (3 day TAT)

Received By: Brian Charon

Date Received: 11/23/16 08:07

Logged In By: Sunny Lounethone

Date Logged In: 11/23/16 09:16

Samples Received at: **13.6°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
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T163015-01 B1-0.5 [Soil] Sampled 11/22/16 15:00 (GMT-08:00) Pacific Time (US &

6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:00	As only
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T163015-02 B1-1.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T163015-03 B1-2.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T163015-04 B2-0.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US &

6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:00	

T163015-05 B2-1.5 [Soil] Sampled 11/21/16 14:10 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T163015-06 B2-2.5 [Soil] Sampled 11/21/16 14:15 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-07 B3-0.5 [Soil] Sampled 11/21/16 14:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:30	
T163015-08 B3-1.5 [Soil] Sampled 11/21/16 14:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-09 B3-2.5 [Soil] Sampled 11/21/16 14:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-10 B4-0.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:10	
T163015-11 B4-1.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-12 B4-2.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-13 B5-0.5 [Soil] Sampled 11/21/16 10:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:45	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:45	
8082 PCB	11/30/16 15:00	3	12/05/16 10:45	
T163015-14 B5-1.5 [Soil] Sampled 11/21/16 10:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-15 B5-2.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-16 B6-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As only

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-17 B6-1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-18 B6-2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-19 B7-0.5 [Soil] Sampled 11/21/16 11:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:25	As, Pb only
8015 Carbon Chain	11/30/16 15:00	3	12/05/16 11:25	
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:25	
T163015-20 B7-1.5 [Soil] Sampled 11/21/16 11:35 (GMT-08:00) Pacific Time (US &				
6010 Pb	12/07/16 15:00	3	05/20/17 11:35	6010 Pb added per client request (Keith, 12/2)
T163015-21 B7-2.5 [Soil] Sampled 11/21/16 11:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-22 B8-0.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:10	
T163015-23 B8-1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-24 B8-2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-25 B9-0.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:35	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:35	
T163015-26 B9-1.5 [Soil] Sampled 11/22/16 15:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-27 B9-2.5 [Soil] Sampled 11/22/16 15:50 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163015-28 B10-0.5 [Soil] Sampled 11/22/16 16:10 (GMT-08:00) Pacific Time				
(US &				
STLC As added per client request (Keith, 12/2)				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 16:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 16:10	
STLC Pb	12/07/16 15:00	3	05/21/17 16:10	Arsenic ONLY
STLC Leaching Procedure Metals	12/07/16 15:00	3	12/06/16 16:10	
T163015-29 B10-1.5 [Soil] Sampled 11/22/16 16:20 (GMT-08:00) Pacific Time				
(US &				
6010 As added per client request (Keith, 12/2)				
6010 Individual Metals	12/07/16 15:00	3	05/21/17 16:20	As ONLY
T163015-30 B10-2.5 [Soil] Sampled 11/22/16 16:30 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163015-31 B11-0.5 [Soil] Sampled 11/22/16 15:40 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:40	
T163015-32 B11-1.5 [Soil] Sampled 11/22/16 15:50 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163015-33 B11-2.5 [Soil] Sampled 11/22/16 16:00 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				
T163015-34 B12-0.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time				
(US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:15	
T163015-35 B12-1.5 [Soil] Sampled 11/21/16 08:25 (GMT-08:00) Pacific Time				
(US &				
[NO ANALYSES]				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-36 B12-2.5 [Soil] Sampled 11/21/16 08:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-37 B13-0.5 [Soil] Sampled 11/21/16 08:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:50	
8082 PCB	11/30/16 15:00	3	12/05/16 08:50	
T163015-38 B13-1.5 [Soil] Sampled 11/21/16 09:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-39 B13-2.5 [Soil] Sampled 11/21/16 09:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-40 B14-0.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:25	
T163015-41 B14-1.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-42 B14-2.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-43 B15-0.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:05	
T163015-44 B15-1.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-45 B15-2.5 [Soil] Sampled 11/21/16 10:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-46 B16-0.5 [Soil] Sampled 11/22/16 14:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 14:05	
T163015-47 B16-1.5 [Soil] Sampled 11/22/16 14:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-48 B16-2.5 [Soil] Sampled 11/22/16 14:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-49 B17-0.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:55	
T163015-50 B17-1.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-51 B17-2.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-52 B18-0.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:40	
T163015-53 B18-1.5 [Soil] Sampled 11/21/16 08:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-54 B18-2.5 [Soil] Sampled 11/21/16 09:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-55 B19-0.5 [Soil] Sampled 11/21/16 09:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:15	

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-56 B19-1.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-57 B19-2.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-58 B20-0.5 [Soil] Sampled 11/21/16 13:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:10	
T163015-59 B20-1.5 [Soil] Sampled 11/21/16 13:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-60 B20-2.5 [Soil] Sampled 11/21/16 13:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-61 B21-0.5 [Soil] Sampled 11/21/16 13:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:40	
T163015-62 B21-1.5 [Soil] Sampled 11/21/16 13:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-63 B21-2.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-64 B22-0.5 [Soil] Sampled 11/21/16 14:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:50	
T163015-65 B22-1.5 [Soil] Sampled 11/21/16 14:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-66 B22-2.5 [Soil] Sampled 11/21/16 15:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-67 B23-0.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:30	
T163015-68 B23-1.5 [Soil] Sampled 11/21/16 10:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-69 B23-2.5 [Soil] Sampled 11/21/16 10:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-70 B24-0.5 [Soil] Sampled 11/21/16 14:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:10	
T163015-71 B24-1.5 [Soil] Sampled 11/21/16 14:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-72 B24-2.5 [Soil] Sampled 11/21/16 14:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-73 B25-0.5 [Soil] Sampled 11/21/16 11:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:00	
T163015-74 B25-1.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-75 B25-2.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-76 B26-0.5 [Soil] Sampled 11/21/16 11:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:25	
T163015-77 B26-1.5 [Soil] Sampled 11/21/16 11:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-78 B26-2.5 [Soil] Sampled 11/21/16 11:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-79 B27-0.5 [Soil] Sampled 11/22/16 07:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 07:45	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 07:45	
T163015-80 B27-1.5 [Soil] Sampled 11/22/16 07:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 11/30/16 17:00 (3 day TAT)

Received By: Brian Charon

Date Received: 11/23/16 08:07

Logged In By: Brian Charon

Date Logged In: 11/23/16 09:17

Samples Received at: **13.3°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T163016-01 B28-0.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:15	
T163016-02 B28- 1.5 [Soil] Sampled 11/21/16 08:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-03 B28- 2.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-04 B29- 0.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:55	
T163016-05 B29- 1.5 [Soil] Sampled 11/21/16 09:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-06 B29- 2.5 [Soil] Sampled 11/21/16 09:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-07 B27- 2.5 [Soil] Sampled 11/22/16 08:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-08 B30- 0.5 [Soil] Sampled 11/21/16 09:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:30	
T163016-09 B30- 1.5 [Soil] Sampled 11/21/16 09:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-10 B30- 2.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-11 B31- 0.5 [Soil] Sampled 11/21/16 10:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:00	
T163016-12 B31- 1.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-13 B31- 2.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-14 B32- 0.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:30	
T163016-15 B32- 1.5 [Soil] Sampled 11/21/16 10:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-16 B32- 2.5 [Soil] Sampled 11/21/16 10:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-17 B33- 0.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:05	
T163016-18 B33- 1.5 [Soil] Sampled 11/21/16 11:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-19 B33- 2.5 [Soil] Sampled 11/21/16 11:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-20 B34- 0.5 [Soil] Sampled 11/22/16 10:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 10:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 10:00	
8082 PCB	11/30/16 15:00	3	12/06/16 10:00	
T163016-21 B34- 1.5 [Soil] Sampled 11/22/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-22 B34- 2.5 [Soil] Sampled 11/22/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-23 B35- 0.5 [Soil] Sampled 11/21/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 15:10	
T163016-24 B35- 1.5 [Soil] Sampled 11/21/16 15:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-25 B35- 2.5 [Soil] Sampled 11/21/16 15:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-26 B36- 0.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:10	
T163016-27 B36- 1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-28 B36- 2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-29 B37- 0.5 [Soil] Sampled 11/21/16 13:35 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:35	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:35	
STLC Pb	12/07/16 15:00	3	05/20/17 13:35	STLC Pb added per client request (Keith, 12/2)
STLC Leaching Procedure Metals	12/07/16 15:00	3	12/05/16 13:35	
T163016-30 B37- 1.5 [Soil] Sampled 11/21/16 13:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	12/07/16 15:00	3	05/20/17 13:45	6010 Pb added per client request (Keith, 12/2)
T163016-31 B37- 2.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-32 B38- 0.5 [Soil] Sampled 11/21/16 13:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:05	
T163016-33 B38- 1.5 [Soil] Sampled 11/21/16 13:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-34 B38- 2.5 [Soil] Sampled 11/21/16 13:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-35 B39- 0.5 [Soil] Sampled 11/22/16 14:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:10	As, Pb only
T163016-36 B39- 1.5 [Soil] Sampled 11/22/16 14:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-37 B39- 2.5 [Soil] Sampled 11/22/16 14:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-38 B40- 0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
T163016-39 B40- 1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-40 B40- 2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-41 B41- 0.5 [Soil] Sampled 11/22/16 10:40 (GMT-08:00) Pacific Time (US &				
8082 PCB	11/30/16 15:00	3	12/06/16 10:40	
T163016-42 B41- 1.5 [Soil] Sampled 11/22/16 10:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-43 B41- 2.5 [Soil] Sampled 11/22/16 10:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-44 B42- 0.5 [Soil] Sampled 11/22/16 12:05 (GMT-08:00) Pacific Time (US &				
8082 PCB	11/30/16 15:00	3	12/06/16 12:05	
T163016-45 B42- 1.5 [Soil] Sampled 11/22/16 12:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-46 B42- 2.5 [Soil] Sampled 11/22/16 12:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-47 B43- 0.5 [Soil] Sampled 11/21/16 08:05 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/20/17 08:05 As, Pb only				
T163016-48 B43- 1.5 [Soil] Sampled 11/21/16 08:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-49 B43- 2.5 [Soil] Sampled 11/21/16 08:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-50 B44- 0.5 [Soil] Sampled 11/21/16 08:30 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/20/17 08:30 As, Pb only				
T163016-51 B44- 1.5 [Soil] Sampled 11/21/16 08:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-52 B44- 2.5 [Soil] Sampled 11/21/16 08:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-53 B45- 0.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/20/17 08:55 As, Pb only				
T163016-54 B45- 1.5 [Soil] Sampled 11/21/16 09:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-55 B45- 2.5 [Soil] Sampled 11/21/16 09:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-56 B46- 0.5 [Soil] Sampled 11/21/16 08:10 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/20/17 08:10 As, Pb only				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-57 B46- 1.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-58 B46- 2.5 [Soil] Sampled 11/21/16 08:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-59 B47- 0.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:40	As, Pb only
T163016-60 B47- 1.5 [Soil] Sampled 11/21/16 08:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-61 B47- 2.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-62 B48- 0.5 [Soil] Sampled 11/22/16 08:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 08:55	
T163016-63 B48- 1.5 [Soil] Sampled 11/22/16 07:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-64 B48- 2.5 [Soil] Sampled 11/22/16 07:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-65 B49- 0.5 [Soil] Sampled 11/22/16 07:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 07:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 07:25	
T163016-66 B49- 1.5 [Soil] Sampled 11/22/16 07:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-67 B49- 2.5 [Soil] Sampled 11/22/16 07:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-68 B50- 0.5 [Soil] Sampled 11/22/16 14:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 14:50	
T163016-69 B50- 1.5 [Soil] Sampled 11/22/16 14:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-70 B50- 2.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-71 B51- 0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 11:10	
T163016-72 B51- 1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-73 B51- 2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-74 B52- 0.5 [Soil] Sampled 11/22/16 09:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 09:30	
T163016-75 B52- 1.5 [Soil] Sampled 11/22/16 09:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-76 B52- 2.5 [Soil] Sampled 11/22/16 09:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-77 B53- 0.5 [Soil] Sampled 11/22/16 08:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 08:00	
T163016-78 B53- 1.5 [Soil] Sampled 11/22/16 08:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-79 B53- 2.5 [Soil] Sampled 11/22/16 08:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-80 B54- 0.5 [Soil] Sampled 11/22/16 12:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 12:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 12:50	
T163016-81 Composite B39,B40- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	2:1 Comp
T163016-82 Composite B43,B44, B45- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	3:1 Comp
T163016-83 Composite B46,B47- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US &				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	2:1 Comp

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 11/30/16 17:00 (3 day TAT)

Received By: Brian Charon

Date Received: 11/23/16 08:07

Logged In By: Sunny Lounethone

Date Logged In: 11/23/16 09:16

Samples Received at: **13.6°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
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T163015-01 B1-0.5 [Soil] Sampled 11/22/16 15:00 (GMT-08:00) Pacific Time (US &

6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:00	As only
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T163015-02 B1-1.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T163015-03 B1-2.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T163015-04 B2-0.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US &

6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:00	

T163015-05 B2-1.5 [Soil] Sampled 11/21/16 14:10 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

T163015-06 B2-2.5 [Soil] Sampled 11/21/16 14:15 (GMT-08:00) Pacific Time (US &

[NO ANALYSES]

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-07 B3-0.5 [Soil] Sampled 11/21/16 14:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:30	
T163015-08 B3-1.5 [Soil] Sampled 11/21/16 14:35 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-09 B3-2.5 [Soil] Sampled 11/21/16 14:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-10 B4-0.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:10	
T163015-11 B4-1.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-12 B4-2.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-13 B5-0.5 [Soil] Sampled 11/21/16 10:45 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:45	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:45	
8082 PCB	11/30/16 15:00	3	12/05/16 10:45	
T163015-14 B5-1.5 [Soil] Sampled 11/21/16 10:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-15 B5-2.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-16 B6-0.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:05	As only

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-17 B6-1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-18 B6-2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-19 B7-0.5 [Soil] Sampled 11/21/16 11:25 (GMT-08:00) Pacific Time (US & STLC Pb added per client request (Keith 4/6)				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:25	As, Pb only
8015 Carbon Chain	11/30/16 15:00	3	12/05/16 11:25	
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:25	
STLC Pb	04/10/17 15:00	1	05/20/17 11:25	
STLC Leaching Procedure Metals	04/10/17 15:00	1	12/05/16 11:25	
T163015-20 B7-1.5 [Soil] Sampled 11/21/16 11:35 (GMT-08:00) Pacific Time (US & 6010 Pb added per client request (Keith, 12/2)				
6010 Pb	12/07/16 15:00	3	05/20/17 11:35	
T163015-21 B7-2.5 [Soil] Sampled 11/21/16 11:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-22 B8-0.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:10	
T163015-23 B8-1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-24 B8-2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-25 B9-0.5 [Soil] Sampled 11/22/16 15:35 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:35	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:35	

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-26 B9-1.5 [Soil] Sampled 11/22/16 15:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-27 B9-2.5 [Soil] Sampled 11/22/16 15:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-28 B10-0.5 [Soil] Sampled 11/22/16 16:10 (GMT-08:00) Pacific Time (US & STLC As added per client request (Keith, 12/2)				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 16:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 16:10	
STLC Pb	12/07/16 15:00	3	05/21/17 16:10	Arsenic ONLY
STLC Leaching Procedure Metals	12/07/16 15:00	3	12/06/16 16:10	
T163015-29 B10-1.5 [Soil] Sampled 11/22/16 16:20 (GMT-08:00) Pacific Time (US & 6010 As added per client request (Keith, 12/2)				
6010 Individual Metals	12/07/16 15:00	3	05/21/17 16:20	As ONLY
T163015-30 B10-2.5 [Soil] Sampled 11/22/16 16:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-31 B11-0.5 [Soil] Sampled 11/22/16 15:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:40	
T163015-32 B11-1.5 [Soil] Sampled 11/22/16 15:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-33 B11-2.5 [Soil] Sampled 11/22/16 16:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-34 B12-0.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:15	

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
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T163015-35 B12-1.5 [Soil] Sampled 11/21/16 08:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES]

T163015-36 B12-2.5 [Soil] Sampled 11/21/16 08:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]

T163015-37 B13-0.5 [Soil] Sampled 11/21/16 08:50 (GMT-08:00) Pacific Time (US &

6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:50	
8082 PCB	11/30/16 15:00	3	12/05/16 08:50	

T163015-38 B13-1.5 [Soil] Sampled 11/21/16 09:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES]

T163015-39 B13-2.5 [Soil] Sampled 11/21/16 09:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES]

T163015-40 B14-0.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US &

6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:25	

T163015-41 B14-1.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]

T163015-42 B14-2.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]

T163015-43 B15-0.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US &

6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:05	

T163015-44 B15-1.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES]

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-45 B15-2.5 [Soil] Sampled 11/21/16 10:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-46 B16-0.5 [Soil] Sampled 11/22/16 14:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 14:05	
T163015-47 B16-1.5 [Soil] Sampled 11/22/16 14:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-48 B16-2.5 [Soil] Sampled 11/22/16 14:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-49 B17-0.5 [Soil] Sampled 11/21/16 09:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:55	
T163015-50 B17-1.5 [Soil] Sampled 11/21/16 10:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-51 B17-2.5 [Soil] Sampled 11/21/16 10:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-52 B18-0.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:40	
T163015-53 B18-1.5 [Soil] Sampled 11/21/16 08:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-54 B18-2.5 [Soil] Sampled 11/21/16 09:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-55 B19-0.5 [Soil] Sampled 11/21/16 09:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:15	
T163015-56 B19-1.5 [Soil] Sampled 11/21/16 09:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-57 B19-2.5 [Soil] Sampled 11/21/16 09:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-58 B20-0.5 [Soil] Sampled 11/21/16 13:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:10	
T163015-59 B20-1.5 [Soil] Sampled 11/21/16 13:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-60 B20-2.5 [Soil] Sampled 11/21/16 13:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-61 B21-0.5 [Soil] Sampled 11/21/16 13:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:40	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:40	
T163015-62 B21-1.5 [Soil] Sampled 11/21/16 13:50 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-63 B21-2.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163015-64 B22-0.5 [Soil] Sampled 11/21/16 14:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:50	

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163015-65 B22-1.5 [Soil] Sampled 11/21/16 14:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-66 B22-2.5 [Soil] Sampled 11/21/16 15:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-67 B23-0.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:30	
T163015-68 B23-1.5 [Soil] Sampled 11/21/16 10:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-69 B23-2.5 [Soil] Sampled 11/21/16 10:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-70 B24-0.5 [Soil] Sampled 11/21/16 14:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 14:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 14:10	
T163015-71 B24-1.5 [Soil] Sampled 11/21/16 14:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-72 B24-2.5 [Soil] Sampled 11/21/16 14:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163015-73 B25-0.5 [Soil] Sampled 11/21/16 11:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:00	
T163015-74 B25-1.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163015

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
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T163015-75 B25-2.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

T163015-76 B26-0.5 [Soil] Sampled 11/21/16 11:25 (GMT-08:00) Pacific Time
 (US &
 6010 Individual Metals 11/30/16 15:00 3 05/20/17 11:25 As, Pb only
 8081 Pesticides 11/30/16 15:00 3 12/05/16 11:25

T163015-77 B26-1.5 [Soil] Sampled 11/21/16 11:35 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

T163015-78 B26-2.5 [Soil] Sampled 11/21/16 11:50 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

T163015-79 B27-0.5 [Soil] Sampled 11/22/16 07:45 (GMT-08:00) Pacific Time
 (US &
 6010 Individual Metals 11/30/16 15:00 3 05/21/17 07:45 As, Pb only
 8081 Pesticides 11/30/16 15:00 3 12/06/16 07:45

T163015-80 B27-1.5 [Soil] Sampled 11/22/16 07:55 (GMT-08:00) Pacific Time
 (US &
 [NO ANALYSES]

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 11/30/16 17:00 (3 day TAT)

Received By: Brian Charon

Date Received: 11/23/16 08:07

Logged In By: Brian Charon

Date Logged In: 11/23/16 09:17

Samples Received at: **13.3°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T163016-01 B28-0.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:15	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:15	
T163016-02 B28- 1.5 [Soil] Sampled 11/21/16 08:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-03 B28- 2.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-04 B29- 0.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 08:55	
T163016-05 B29- 1.5 [Soil] Sampled 11/21/16 09:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-06 B29- 2.5 [Soil] Sampled 11/21/16 09:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-07 B27- 2.5 [Soil] Sampled 11/22/16 08:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-08 B30- 0.5 [Soil] Sampled 11/21/16 09:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 09:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 09:30	
T163016-09 B30- 1.5 [Soil] Sampled 11/21/16 09:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-10 B30- 2.5 [Soil] Sampled 11/21/16 09:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-11 B31- 0.5 [Soil] Sampled 11/21/16 10:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:00	
T163016-12 B31- 1.5 [Soil] Sampled 11/21/16 10:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-13 B31- 2.5 [Soil] Sampled 11/21/16 10:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-14 B32- 0.5 [Soil] Sampled 11/21/16 10:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 10:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 10:30	
T163016-15 B32- 1.5 [Soil] Sampled 11/21/16 10:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-16 B32- 2.5 [Soil] Sampled 11/21/16 10:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-17 B33- 0.5 [Soil] Sampled 11/21/16 11:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 11:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 11:05	
T163016-18 B33- 1.5 [Soil] Sampled 11/21/16 11:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-19 B33- 2.5 [Soil] Sampled 11/21/16 11:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-20 B34- 0.5 [Soil] Sampled 11/22/16 10:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 10:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 10:00	
8082 PCB	11/30/16 15:00	3	12/06/16 10:00	
T163016-21 B34- 1.5 [Soil] Sampled 11/22/16 10:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-22 B34- 2.5 [Soil] Sampled 11/22/16 10:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-23 B35- 0.5 [Soil] Sampled 11/21/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 15:10	
T163016-24 B35- 1.5 [Soil] Sampled 11/21/16 15:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-25 B35- 2.5 [Soil] Sampled 11/21/16 15:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-26 B36- 0.5 [Soil] Sampled 11/22/16 15:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 15:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 15:10	
T163016-27 B36- 1.5 [Soil] Sampled 11/22/16 15:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-28 B36- 2.5 [Soil] Sampled 11/22/16 15:25 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-29 B37- 0.5 [Soil] Sampled 11/21/16 13:35 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:35	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:35	
STLC Pb	12/07/16 15:00	3	05/20/17 13:35	STLC Pb added per client request (Keith, 12/2), TCLP Pb added per client request (Keith 4/6)
STLC Leaching Procedure Metals	12/07/16 15:00	3	12/05/16 13:35	
TCLP Leaching Procedure Metals	04/10/17 15:00	1	12/05/16 13:35	
TCLP Pb	04/10/17 15:00	1	05/20/17 13:35	
T163016-30 B37- 1.5 [Soil] Sampled 11/21/16 13:45 (GMT-08:00) Pacific Time (US &				
6010 Pb	12/07/16 15:00	3	05/20/17 13:45	6010 Pb added per client request (Keith, 12/2)
T163016-31 B37- 2.5 [Soil] Sampled 11/21/16 14:00 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-32 B38- 0.5 [Soil] Sampled 11/21/16 13:05 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 13:05	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/05/16 13:05	
T163016-33 B38- 1.5 [Soil] Sampled 11/21/16 13:10 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-34 B38- 2.5 [Soil] Sampled 11/21/16 13:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-35 B39- 0.5 [Soil] Sampled 11/22/16 14:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:10	As, Pb only
T163016-36 B39- 1.5 [Soil] Sampled 11/22/16 14:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-37 B39- 2.5 [Soil] Sampled 11/22/16 14:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-38 B40- 0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
T163016-39 B40- 1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-40 B40- 2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-41 B41- 0.5 [Soil] Sampled 11/22/16 10:40 (GMT-08:00) Pacific Time (US &				
8082 PCB	11/30/16 15:00	3	12/06/16 10:40	
T163016-42 B41- 1.5 [Soil] Sampled 11/22/16 10:45 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-43 B41- 2.5 [Soil] Sampled 11/22/16 10:55 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-44 B42- 0.5 [Soil] Sampled 11/22/16 12:05 (GMT-08:00) Pacific Time (US &				
8082 PCB	11/30/16 15:00	3	12/06/16 12:05	
T163016-45 B42- 1.5 [Soil] Sampled 11/22/16 12:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-46 B42- 2.5 [Soil] Sampled 11/22/16 12:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-47 B43- 0.5 [Soil] Sampled 11/21/16 08:05 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/20/17 08:05 As, Pb only				
T163016-48 B43- 1.5 [Soil] Sampled 11/21/16 08:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-49 B43- 2.5 [Soil] Sampled 11/21/16 08:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-50 B44- 0.5 [Soil] Sampled 11/21/16 08:30 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/20/17 08:30 As, Pb only				
T163016-51 B44- 1.5 [Soil] Sampled 11/21/16 08:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-52 B44- 2.5 [Soil] Sampled 11/21/16 08:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-53 B45- 0.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/20/17 08:55 As, Pb only				
T163016-54 B45- 1.5 [Soil] Sampled 11/21/16 09:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-55 B45- 2.5 [Soil] Sampled 11/21/16 09:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				
T163016-56 B46- 0.5 [Soil] Sampled 11/21/16 08:10 (GMT-08:00) Pacific Time (US & 6010 Individual Metals 11/30/16 15:00 3 05/20/17 08:10 As, Pb only				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-57 B46- 1.5 [Soil] Sampled 11/21/16 08:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-58 B46- 2.5 [Soil] Sampled 11/21/16 08:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-59 B47- 0.5 [Soil] Sampled 11/21/16 08:40 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/20/17 08:40	As, Pb only
T163016-60 B47- 1.5 [Soil] Sampled 11/21/16 08:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-61 B47- 2.5 [Soil] Sampled 11/21/16 08:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-62 B48- 0.5 [Soil] Sampled 11/22/16 08:55 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:55	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 08:55	
T163016-63 B48- 1.5 [Soil] Sampled 11/22/16 07:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-64 B48- 2.5 [Soil] Sampled 11/22/16 07:15 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-65 B49- 0.5 [Soil] Sampled 11/22/16 07:25 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 07:25	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 07:25	
T163016-66 B49- 1.5 [Soil] Sampled 11/22/16 07:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-67 B49- 2.5 [Soil] Sampled 11/22/16 07:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-68 B50- 0.5 [Soil] Sampled 11/22/16 14:50 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 14:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 14:50	
T163016-69 B50- 1.5 [Soil] Sampled 11/22/16 14:55 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-70 B50- 2.5 [Soil] Sampled 11/22/16 15:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-71 B51- 0.5 [Soil] Sampled 11/22/16 11:10 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 11:10	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 11:10	
T163016-72 B51- 1.5 [Soil] Sampled 11/22/16 11:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-73 B51- 2.5 [Soil] Sampled 11/22/16 11:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-74 B52- 0.5 [Soil] Sampled 11/22/16 09:30 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 09:30	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 09:30	
T163016-75 B52- 1.5 [Soil] Sampled 11/22/16 09:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				
T163016-76 B52- 2.5 [Soil] Sampled 11/22/16 09:50 (GMT-08:00) Pacific Time (US & [NO ANALYSES])				

WORK ORDER

T163016

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Grover Cleveland High School	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163016-77 B53- 0.5 [Soil] Sampled 11/22/16 08:00 (GMT-08:00) Pacific Time (US &				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 08:00	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 08:00	
T163016-78 B53- 1.5 [Soil] Sampled 11/22/16 08:05 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-79 B53- 2.5 [Soil] Sampled 11/22/16 08:15 (GMT-08:00) Pacific Time (US &				
[NO ANALYSES]				
T163016-80 B54- 0.5 [Soil] Sampled 11/22/16 12:50 (GMT-08:00) Pacific Time (US &				
TCLP Pb added per client request (Keith 4/6)				
6010 Individual Metals	11/30/16 15:00	3	05/21/17 12:50	As, Pb only
8081 Pesticides	11/30/16 15:00	3	12/06/16 12:50	
TCLP Leaching Procedure Metals	04/10/17 15:00	1	12/06/16 12:50	
TCLP Pb	04/10/17 15:00	1	05/21/17 12:50	
T163016-81 Composite B39,B40- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US &				
2:1 Comp				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
T163016-82 Composite B43,B44, B45- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US &				
3:1 Comp				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	
T163016-83 Composite B46,B47- 0.5 [Soil] Sampled 11/22/16 00:00 (GMT-08:00) Pacific Time (US &				
2:1 Comp				
8081 Pesticides	11/30/16 15:00	3	12/06/16 00:00	

APPENDIX C

**LABORATORY REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION
FOR STAGE 2 SOIL SAMPLES**



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

03 January 2017

Keith Thompson
Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch, CA 92610
RE: Cleveland HS

Enclosed are the results of analyses for samples received by the laboratory on 12/28/16 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh
Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Pinnacle Environmental Technologies
 2 Santa Maria
 Foothill Ranch CA, 92610

Project: Cleveland HS
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 01/03/17 14:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B85-0.5	T163334-01	Soil	12/28/16 13:23	12/28/16 16:30
B77-0.5	T163334-04	Soil	12/28/16 07:55	12/28/16 16:30
B78-0.5	T163334-07	Soil	12/28/16 08:30	12/28/16 16:30
B79-0.5	T163334-10	Soil	12/28/16 10:25	12/28/16 16:30
B80-0.5	T163334-13	Soil	12/28/16 10:42	12/28/16 16:30
B81-0.5	T163334-16	Soil	12/28/16 12:16	12/28/16 16:30
B82-0.5	T163334-19	Soil	12/28/16 12:35	12/28/16 16:30
B83-0.5	T163334-22	Soil	12/28/16 09:15	12/28/16 16:30
B84-0.5	T163334-25	Soil	12/28/16 09:45	12/28/16 16:30

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Cleveland HS
Project Number: [none]
Project Manager: Keith Thompson

Reported:
01/03/17 14:43

DETECTIONS SUMMARY

Sample ID: B85-0.5 **Laboratory ID:** T163334-01

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	5.1	5.0		mg/kg	EPA 6010B	

Sample ID: B77-0.5 **Laboratory ID:** T163334-04

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	12	2.5		mg/kg	EPA 6010B	

Sample ID: B78-0.5 **Laboratory ID:** T163334-07

No Results Detected

Sample ID: B79-0.5 **Laboratory ID:** T163334-10

No Results Detected

Sample ID: B80-0.5 **Laboratory ID:** T163334-13

No Results Detected

Sample ID: B81-0.5 **Laboratory ID:** T163334-16

No Results Detected

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Cleveland HS
Project Number: [none]
Project Manager: Keith Thompson

Reported:
01/03/17 14:43

Sample ID: B82-0.5

Laboratory ID: T163334-19

No Results Detected

Sample ID: B83-0.5

Laboratory ID: T163334-22

No Results Detected

Sample ID: B84-0.5

Laboratory ID: T163334-25

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Arsenic	7.2	4.2		mg/kg	EPA 6010B	

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Rose Fasheh, Project Manager



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 949.297.5027 Fax

Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Cleveland HS Project Number: [none] Project Manager: Keith Thompson	Reported: 01/03/17 14:43
--	--	------------------------------------

B85-0.5
T163334-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.1	5.0	mg/kg	1	6122916	12/29/16	12/30/16	EPA 6010B	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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 949.297.5027 Fax

Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Cleveland HS Project Number: [none] Project Manager: Keith Thompson	Reported: 01/03/17 14:43
--	--	------------------------------------

B77-0.5
T163334-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	12	2.5	mg/kg	1	6122914	12/29/16	12/30/16	EPA 6010B	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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 949.297.5027 Fax

Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Cleveland HS Project Number: [none] Project Manager: Keith Thompson	Reported: 01/03/17 14:43
--	--	------------------------------------

B78-0.5
T163334-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	2.7	mg/kg	1	6122914	12/29/16	12/30/16	EPA 6010B	
------	----	-----	-------	---	---------	----------	----------	-----------	--

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Cleveland HS Project Number: [none] Project Manager: Keith Thompson	Reported: 01/03/17 14:43
--	--	------------------------------------

B79-0.5
T163334-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	2.7	mg/kg	1	6122914	12/29/16	12/30/16	EPA 6010B	
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SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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 949.297.5027 Fax

Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Cleveland HS Project Number: [none] Project Manager: Keith Thompson	Reported: 01/03/17 14:43
--	--	------------------------------------

B80-0.5
T163334-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	2.5	mg/kg	1	6122914	12/29/16	12/30/16	EPA 6010B	
------	----	-----	-------	---	---------	----------	----------	-----------	--

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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 949.297.5027 Fax

Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Cleveland HS Project Number: [none] Project Manager: Keith Thompson	Reported: 01/03/17 14:43
--	--	------------------------------------

B81-0.5
T163334-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	2.7	mg/kg	1	6122914	12/29/16	12/30/16	EPA 6010B	
------	----	-----	-------	---	---------	----------	----------	-----------	--

SunStar Laboratories, Inc.

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 949.297.5027 Fax

Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Cleveland HS Project Number: [none] Project Manager: Keith Thompson	Reported: 01/03/17 14:43
--	--	------------------------------------

B82-0.5
T163334-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Lead	ND	2.5	mg/kg	1	6122914	12/29/16	12/30/16	EPA 6010B	
------	----	-----	-------	---	---------	----------	----------	-----------	--

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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 949.297.5027 Fax

Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Cleveland HS Project Number: [none] Project Manager: Keith Thompson	Reported: 01/03/17 14:43
--	--	------------------------------------

B83-0.5
T163334-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	ND	4.5	mg/kg	1	6122916	12/29/16	12/30/16	EPA 6010B	
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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Cleveland HS Project Number: [none] Project Manager: Keith Thompson	Reported: 01/03/17 14:43
--	--	------------------------------------

B84-0.5
T163334-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Arsenic	7.2	4.2	mg/kg	1	6122916	12/29/16	12/30/16	EPA 6010B	
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SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Cleveland HS Project Number: [none] Project Manager: Keith Thompson	Reported: 01/03/17 14:43
--	--	-----------------------------

Metals by EPA 6010B - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6122914 - EPA 3051

Blank (6122914-BLK1)		Prepared: 12/29/16 Analyzed: 12/30/16								
Lead	ND	3.0	mg/kg							
LCS (6122914-BS1)		Prepared: 12/29/16 Analyzed: 12/30/16								
Lead	90.5	3.0	mg/kg	100		90.5	75-125			
Matrix Spike (6122914-MS1)		Source: T163334-04		Prepared: 12/29/16 Analyzed: 12/30/16						
Lead	91.9	3.0	mg/kg	100	12.5	79.5	75-125			
Matrix Spike Dup (6122914-MSD1)		Source: T163334-04		Prepared: 12/29/16 Analyzed: 12/30/16						
Lead	97.8	3.0	mg/kg	100	12.5	85.3	75-125	6.14	20	

Batch 6122916 - EPA 3051

Blank (6122916-BLK1)		Prepared: 12/29/16 Analyzed: 12/30/16								
Arsenic	ND	5.0	mg/kg							
Copper	ND	1.0	"							
LCS (6122916-BS1)		Prepared: 12/29/16 Analyzed: 12/30/16								
Arsenic	100	5.0	mg/kg	100		100	75-125			
Copper	104	1.0	"	100		104	75-125			
Matrix Spike (6122916-MS1)		Source: T163339-01		Prepared: 12/29/16 Analyzed: 12/30/16						
Arsenic	87.8	4.5	mg/kg	90.9	3.31	93.0	75-125			
Copper	125	0.91	"	90.9	32.4	102	0-200			
Matrix Spike Dup (6122916-MSD1)		Source: T163339-01		Prepared: 12/29/16 Analyzed: 12/30/16						
Arsenic	86.4	5.0	mg/kg	100	3.31	83.0	75-125	1.69	20	
Copper	125	1.0	"	100	32.4	92.4	0-200	0.382	200	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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949.297.5020 Phone
949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Cleveland HS
Project Number: [none]
Project Manager: Keith Thompson

Reported:
01/03/17 14:43

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

CHAIN OF CUSTODY RECORD

3-DK4



Site: CLEVELAND HS
 Address: 8140 WANAUDEN
RESEDA CA

Project Manager: MALVEY THOMPSON
 Sampled By: MALVEY THOMPSON
 Laboratory: SmStar

TAT: NORM - 24HR - 48HR
 LARWQCB EDF - YES NO

Page 1 of 1

PINNACLE SAMPLE ID	LABORATORY ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH G/D/WO EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270C	Pesticides PCB's EPA 8081/8082	Title 22 Metals	As	Pb
B85-0.5		1323	12/28/14	Soil	J									X	
B85-1.5		1328													
B85-2.5		1335													
B77-0.5		755													X
B77-1.5		800													
B77-2.5		810													
B78-0.5		830													X
B78-1.5		840													
B78-2.5		845													X
B79-0.5		1025													X
B79-1.5		1018													
B79-2.5		1030													
B80-0.5		1042													X
B80-1.5		1047													
B80-2.5		1051													
B81-0.5		1216													X
B81-1.5		1220													
B81-2.5		1225													
B82-0.5		1235													X
B82-1.5		1239													

Relinquished By: [Signature] Date/Time: 12/28/16
 Relinquished By: [Signature] Date/Time: 12/28/16
 Received By: [Signature] Date/Time: 12/28/16
 Received By: [Signature] Date/Time: 12/28/16

NOTES: 19.5

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T163334
 Client Name: Pinnacle Project: Cleveland 45

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: Dan M Date/Time Lab Received: 12-28-16 1630

Total number of coolers received: 0

Temperature:	Cooler #1	19.7 °C +/- the CF (- 0.2°C) =	19.5 °C corrected temperature
Temperature:	Cooler #2	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature:	Cooler #3	°C +/- the CF (- 0.2°C) =	°C corrected temperature

Temperature criteria = ≤ 6°C (no frozen containers)	Within criteria?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If NO:		
Samples received on ice?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample	<input type="checkbox"/> Yes <input type="checkbox"/> No* <input checked="" type="checkbox"/> N/A
Sample containers intact	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No*
Sample labels match Chain of Custody IDs	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No*
Total number of containers received match COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No*
Proper containers received for analyses requested on COC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No*
Proper preservative indicated on COC/containers for analyses requested	<input type="checkbox"/> Yes <input type="checkbox"/> No* <input checked="" type="checkbox"/> N/A
Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: DM 12-28-16

Comments:

WORK ORDER

T163334

Client: Pinnacle Environmental Technologies
Project: Cleveland HS

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 01/04/17 17:00 (3 day TAT)

Received By: Dan Marteski

Date Received: 12/28/16 16:30

Logged In By: Dan Marteski

Date Logged In: 12/28/16 17:03

Samples Received at: **19.5°C**
 Custody Seals No Received On Ice No
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
T163334-01 B85-0.5 [Soil] Sampled 12/28/16 13:23 (GMT-08:00) Pacific Time (US & 6010 Individual Metals	01/04/17 15:00	3	06/26/17 13:23	As Only
T163334-02 B85-1.5 [Soil] Sampled 12/28/16 13:28 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-03 B85-2.5 [Soil] Sampled 12/28/16 13:35 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-04 B77-0.5 [Soil] Sampled 12/28/16 07:55 (GMT-08:00) Pacific Time (US & 6010 Pb	01/04/17 15:00	3	06/26/17 07:55	
T163334-05 B77-1.5 [Soil] Sampled 12/28/16 08:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-06 B77-2.5 [Soil] Sampled 12/28/16 08:10 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-07 B78-0.5 [Soil] Sampled 12/28/16 08:30 (GMT-08:00) Pacific Time (US & 6010 Pb	01/04/17 15:00	3	06/26/17 08:30	

WORK ORDER

T163334

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Cleveland HS	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163334-08 B78-1.5 [Soil] Sampled 12/28/16 08:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-09 B78-2.5 [Soil] Sampled 12/28/16 08:45 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-10 B79-0.5 [Soil] Sampled 12/28/16 10:25 (GMT-08:00) Pacific Time (US & 6010 Pb	01/04/17 15:00	3	06/26/17 10:25	
T163334-11 B79-1.5 [Soil] Sampled 12/28/16 10:28 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-12 B79-2.5 [Soil] Sampled 12/28/16 10:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-13 B80-0.5 [Soil] Sampled 12/28/16 10:42 (GMT-08:00) Pacific Time (US & 6010 Pb	01/04/17 15:00	3	06/26/17 10:42	
T163334-14 B80-1.5 [Soil] Sampled 12/28/16 10:47 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-15 B80-2.5 [Soil] Sampled 12/28/16 10:51 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-16 B81-0.5 [Soil] Sampled 12/28/16 12:16 (GMT-08:00) Pacific Time (US & 6010 Pb	01/04/17 15:00	3	06/26/17 12:16	
T163334-17 B81-1.5 [Soil] Sampled 12/28/16 12:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-18 B81-2.5 [Soil] Sampled 12/28/16 12:25 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD

WORK ORDER

T163334

Client: Pinnacle Environmental Technologies	Project Manager: Rose Fasheh
Project: Cleveland HS	Project Number: [none]

Analysis	Due	TAT	Expires	Comments
T163334-19 B82-0.5 [Soil] Sampled 12/28/16 12:35 (GMT-08:00) Pacific Time (US & 6010 Pb	01/04/17 15:00	3	06/26/17 12:35	
T163334-20 B82-1.5 [Soil] Sampled 12/28/16 12:39 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-21 B82-2.5 [Soil] Sampled 12/28/16 12:40 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-22 B83-0.5 [Soil] Sampled 12/28/16 09:15 (GMT-08:00) Pacific Time (US & 6010 Individual Metals	01/04/17 15:00	3	06/26/17 09:15	As Only
T163334-23 B83-1.5 [Soil] Sampled 12/28/16 09:20 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-24 B83-2.5 [Soil] Sampled 12/28/16 09:30 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-25 B84-0.5 [Soil] Sampled 12/28/16 09:45 (GMT-08:00) Pacific Time (US & 6010 Individual Metals	01/04/17 15:00	3	06/26/17 09:45	As Only
T163334-26 B84-1.5 [Soil] Sampled 12/28/16 10:00 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD
T163334-27 B84-2.5 [Soil] Sampled 12/28/16 10:05 (GMT-08:00) Pacific Time (US & [NO ANALYSES]				HOLD



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

11 April 2017

Keith Thompson
Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch, CA 92610
RE: Cleveland HS

Enclosed are the results of analyses for samples received by the laboratory on 04/10/17 15:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Cleveland HS
Project Number: [none]
Project Manager: Keith Thompson

Reported:
04/11/17 10:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PROFILE - 1	T170914-01	Soil	04/10/17 13:30	04/10/17 15:25

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



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949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Cleveland HS
Project Number: [none]
Project Manager: Keith Thompson

Reported:
04/11/17 10:02

DETECTIONS SUMMARY

Sample ID: PROFILE - 1

Laboratory ID: T170914-01

No Results Detected

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Cleveland HS
Project Number: [none]
Project Manager: Keith Thompson

Reported:
04/11/17 10:02

PROFILE - 1
T170914-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bromobenzene	ND	5.0	ug/kg	1	7041052	04/10/17	04/10/17	EPA 8260B/5035	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Cleveland HS
Project Number: [none]
Project Manager: Keith Thompson

Reported:
04/11/17 10:02

PROFILE - 1
T170914-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,1-Dichloropropene	ND	5.0	ug/kg	1	7041052	04/10/17	04/10/17	EPA 8260B/5035	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Rose Fasheh, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
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 949.297.5027 Fax

Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Cleveland HS Project Number: [none] Project Manager: Keith Thompson	Reported: 04/11/17 10:02
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PROFILE - 1
T170914-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Ethyl tert-butyl ether	ND	20	ug/kg	1	7041052	04/10/17	04/10/17	EPA 8260B/5035	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: Toluene-d8		98.0 %	85.5-116		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.1 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		157 %	95.7-135		"	"	"	"	S-GC

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies
 2 Santa Maria
 Foothill Ranch CA, 92610

Project: Cleveland HS
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 04/11/17 10:02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7041052 - EPA 5035 GCMS

Blank (7041052-BLK1)

Prepared & Analyzed: 04/10/17

Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	10	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Cleveland HS
Project Number: [none]
Project Manager: Keith Thompson

Reported:
04/11/17 10:02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7041052 - EPA 5035 GCMS

Blank (7041052-BLK1)

Prepared & Analyzed: 04/10/17

p-Isopropyltoluene	ND	5.0	ug/kg							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Tert-amyl methyl ether	ND	20	"							
Tert-butyl alcohol	ND	50	"							
Di-isopropyl ether	ND	20	"							
Ethyl tert-butyl ether	ND	20	"							
Methyl tert-butyl ether	ND	20	"							
Surrogate: Toluene-d8	40.3		"	40.0		101	85.5-116			
Surrogate: 4-Bromofluorobenzene	38.2		"	40.0		95.5	81.2-123			
Surrogate: Dibromofluoromethane	48.0		"	40.0		120	95.7-135			

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Pinnacle Environmental Technologies
 2 Santa Maria
 Foothill Ranch CA, 92610

Project: Cleveland HS
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 04/11/17 10:02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7041052 - EPA 5035 GCMS

LCS (7041052-BS1)

Prepared & Analyzed: 04/10/17

Chlorobenzene	106	5.0	ug/kg	100		106	75-125			
1,1-Dichloroethene	77.2	5.0	"	100		77.2	75-125			
Trichloroethene	98.1	5.0	"	100		98.1	75-125			
Benzene	86.4	5.0	"	100		86.4	75-125			
Toluene	88.2	5.0	"	100		88.2	75-125			
Surrogate: Toluene-d8	39.4		"	40.0		98.5	85.5-116			
Surrogate: 4-Bromofluorobenzene	45.4		"	40.0		114	81.2-123			
Surrogate: Dibromofluoromethane	47.4		"	40.0		119	95.7-135			

LCS Dup (7041052-BS1)

Prepared & Analyzed: 04/10/17

Chlorobenzene	108	5.0	ug/kg	100		108	75-125	2.71	20	
1,1-Dichloroethene	93.4	5.0	"	100		93.4	75-125	19.1	20	
Trichloroethene	105	5.0	"	100		105	75-125	6.65	20	
Benzene	92.8	5.0	"	100		92.8	75-125	7.15	20	
Toluene	96.8	5.0	"	100		96.8	75-125	9.30	20	
Surrogate: Toluene-d8	39.4		"	40.0		98.4	85.5-116			
Surrogate: 4-Bromofluorobenzene	45.8		"	40.0		114	81.2-123			
Surrogate: Dibromofluoromethane	43.9		"	40.0		110	95.7-135			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



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Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Cleveland HS
Project Number: [none]
Project Manager: Keith Thompson

Reported:
04/11/17 10:02

Notes and Definitions

- S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

CHAIN OF CUSTODY RECORD

T70914



Site: Cleveland HS
 Address: 8140 Van Alden

Redden, CA

Project Manager: MALVEY THOMPSON
 Sampled By: MALVEY THOMPSON

Laboratory: SunStar

TAT: NORM - 24HR - 48HR
 LARWOCB EDF - YES (NO)

Page 1 of 1

Pinnacle Sample ID	Laboratory ID	Sample Time	Sample Date	Sample Matrix	J=Jar T=Tube V=VOA	EPA 5035 (EnCore)	TPH EPA 8015M	TRPH EPA 418.1	VOC EPA 8260B	Oxygenates EPA 8260B	SVOC EPA 8270C	Pesticides PCB's EPA 8081/8082	Title 22 Metals
POOFFE-1	01	1330	4/10/17	S&L		X			X	X			
Relinquished By:		Date/Time:		Received By:		Date/Time:		Received By:		Date/Time:		NOTES:	
		4/10/17 1525				4/10/17 15:25						4/10	



SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: TC70914

Client Name: Pinnacle ENV Project: CLEVELAND HS

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: SUNNY Date/Time Lab Received: 4.10.17 / 15:25

Total number of coolers received: 3

Temperature: Cooler #1 <u>4.8</u>	°C +/- the CF (- 0.2°C) = <u>4.6</u>	°C corrected temperature
Temperature: Cooler #2	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature: Cooler #3	°C +/- the CF (- 0.2°C) =	°C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If NO:		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: SA 4/10/17

Comments: _____

WORK ORDER

T170914

Client: Pinnacle Environmental Technologies
Project: Cleveland HS

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 04/11/17 17:00 (1 day TAT)

Received By: Sunny Lounethone

Date Received: 04/10/17 15:25

Logged In By: Sunny Lounethone

Date Logged In: 04/10/17 15:28

Samples Received at: **4.6°C**
 Custody Seals No Received On Ice Yes
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir No

Analysis	Due	TAT	Expires	Comments
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T170914-01 PROFILE - 1 [Soil] Sampled 04/10/17 13:30 (GMT-08:00) Pacific Time (US &				
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8260 5035	04/11/17 15:00	1	04/24/17 13:30	+ OXY
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APPENDIX D

BORING LOGS



PINNACLE
ENVIRONMENTAL TECHNOLOGIES

#2 Santa Maria, Foothill Ranch, CA
Tel: (949) 470-3691 Fax: (949) 595-0459

BORING LOG

SITE: Grover Cleveland High School
 ADDRESS: 8140 Vanalden Avenue
Reseda, California
 DRILLING METHOD: Geoprobe
 DRILLING COMPANY: American Analytics

BORING No.: SV1
 DATE: November 22, 2016
 GEOLOGIST: K.Thompson, R.G.
 REVIEWED: Bill Malvey
 ELEVATION: 771 feet MSL (est.)

Time	Blows	PID	Depth	Sample	DESCRIPTION	Graphic Log	Boring Backfill
					Four inches of asphalt at surface, four inches of base		
915	NA	NA			Clay (CH) trace silt in interbeds, yellowish brown (10yr 5/4), damp, very stiff, highly plastic, no odors or staining.		
			5		Silty Clay - Clayey Silt (CH/ML), yellowish brown (10yr 5/4), moist, hard, highly plastic, no odors or staining.		
925							
			10		Clay (CH) trace silt in interbeds, yellowish brown (10yr 5/4), damp, hard, highly plastic, no odors or staining.		
935							
			15		Silty Clay - Clayey Silt (CH/ML), yellowish brown (10yr 5/4), moist, hard, highly plastic, no odors or staining.		
950							
					Boring terminated at 15 feet below surface grade. Saturated conditions not encountered. Boring completed as a nested 0.25" diameter vapor well.		
			20				
			25				
			30				



PINNACLE
ENVIRONMENTAL TECHNOLOGIES

#2 Santa Maria, Foothill Ranch, CA
Tel: (949) 470-3691 Fax: (949) 595-0459

BORING LOG














SITE: Grover Cleveland High School
 ADDRESS: 8140 Vanalden Avenue
Reseda, California
 DRILLING METHOD: Geoprobe
 DRILLING COMPANY: American Analytics

BORING No.: SV2
 DATE: November 22, 2016
 GEOLOGIST: K.Thompson, R.G.
 REVIEWED: Bill Malvey
 ELEVATION: 771 feet MSL (est.)

Time	Blows	PID	Depth	Sample	DESCRIPTION	Graphic Log	Boring Backfill
					Four inches of asphalt at surface, four inches of base		
1130	NA	NA			Clay (CH) trace silt in interbeds, yellowish brown (10yr 5/4), damp, very stiff, highly plastic, no odors or staining.		
			5		Silty Clay - Clayey Silt (CH/ML), yellowish brown (10yr 5/4), moist, hard, highly plastic, no odors or staining.		
1140							
			10		Clay (CH) trace silt in interbeds, yellowish brown (10yr 5/4), damp, hard, highly plastic, no odors or staining.		
1150							
			15		Silty Clay - Clayey Silt (CH/ML), yellowish brown (10yr 5/4), moist, hard, highly plastic, no odors or staining.		
1200							
					Boring terminated at 15 feet below surface grade. Saturated conditions not encountered. Boring completed as a nested 0.25" diameter vapor well.		
			20				
			25				
			30				

UNIFIED SOIL CLASSIFICATION

ASTM D 2487

MAJOR DIVISIONS			TYPICAL NAMES			
COARSE-GRAINED SOILS <small>MORE THAN HALF IS LARGER THAN #200 SIEVE</small>	GRAVELS <small>MORE THAN HALF COARSE FRACTION IS LARGER THAN #4 SIEVE SIZE</small>	GRAVELS WITH LITTLE OR NO FINES	GW		WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	
		GRAVELS WITH OVER 12% FINES	GP		POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES	
		SANDS <small>MORE THAN HALF COARSE FRACTION IS SMALLER THAN #4 SIEVE SIZE</small>	SANDS WITH LITTLE OR NO FINES	SW		WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			SANDS WITH OVER 12% FINES	SP		POORLY-GRADED SANDS, GRAVELLY-SAND, LITTLE OR NO FINES
	FINE-GRAINED SOILS <small>MORE THAN HALF IS SMALLER THAN #200 SIEVE</small>	SILTS AND CLAYS <small>(liquid limit is less than 50)</small>	SANDS WITH LITTLE OR NO FINES	SM		SILTY SANDS, SAND-SILT MIXTURES
			SANDS WITH OVER 12% FINES	SC		CLAYEY SANDS, SAND-CLAY MIXTURES
		SILTS AND CLAYS <small>(liquid limit is greater than 50)</small>	SANDS WITH OVER 12% FINES	ML		INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR VERY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
			SANDS WITH OVER 12% FINES	CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
SANDS WITH OVER 12% FINES	OL			ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY		
HIGHLY ORGANIC SOILS	SILTS AND CLAYS <small>(liquid limit is greater than 50)</small>	SANDS WITH OVER 12% FINES	MH		INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS	
		SANDS WITH OVER 12% FINES	CH		INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAY	
		SANDS WITH OVER 12% FINES	OH		ORGANIC CLAYS OF HIGH PLASTICITY, ORGANIC SILTS	
HIGHLY ORGANIC SOILS			Pt		PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

LEGEND



Sample Interval



Soil Sample Collected



Groundwater Encountered



Filter Pack Sand



Bentonite



Concrete

USCS = Unified Soils Classification System

CGI = Combustible Gas Indicator

PID = Photoionization Detector

OVA = Organic Vapor Analyzer

DESCRIPTOR

Trace = 1% - 5%

Some = 6% - 10%

With = 11% - 25%

-ly = 26% - 40%

And = >40%

SANDS

>50 blows = very dense

30 - 50 blows = dense

10 - 30 blows = medium

0 - 10 blows = loose

CLAST SIZE (Field Classification)

Gravel = > 0.25 inches

Sand = 0.003 - 0.25 inches

Silt = < 0.003 & not plastic

Clay = < 0.003 & plastic

SILTS & CLAYS

>30 blows = hard

15 - 30 blows = very stiff

8 - 15 blows = stiff

4 - 8 blows = firm

0 - 4 blows = soft



PINNACLE

APPENDIX E

**LABORATORY ANALYTICAL REPORT AND
CHAIN-OF-CUSTODY DOCUMENTATION
FOR SOIL VAPOR SAMPLES**



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

08 December 2016

Keith Thompson
Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch, CA 92610
RE: Grover Cleveland High School

Enclosed are the results of analyses for samples received by the laboratory on 11/30/16 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Rose Fasheh
Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/08/16 16:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV1-3.5	T163064-01	Air	11/30/16 11:15	11/30/16 16:30
SV1-13.5	T163064-02	Air	11/30/16 11:15	11/30/16 16:30
SV2-3.5	T163064-03	Air	11/30/16 11:15	11/30/16 16:30
SV2-13.5	T163064-04	Air	11/30/16 11:15	11/30/16 16:30
SV2-13.5 DUP	T163064-05	Air	11/30/16 11:15	11/30/16 16:30

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/08/16 16:53

DETECTIONS SUMMARY

Sample ID: SV1-3.5 **Laboratory ID:** T163064-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Trichloroethene	16	5.5	ug/m ³ Air	TO-15	
m,p-Xylene	11	8.8	ug/m ³ Air	TO-15	

Sample ID: SV1-13.5 **Laboratory ID:** T163064-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Trichloroethene	5.5	5.5	ug/m ³ Air	TO-15	
Benzene	5.5	3.3	ug/m ³ Air	TO-15	

Sample ID: SV2-3.5 **Laboratory ID:** T163064-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Trichloroethene	620	270	ug/m ³ Air	TO-15	TO-14

Sample ID: SV2-13.5 **Laboratory ID:** T163064-04

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Tetrachloroethene	14	6.9	ug/m ³ Air	TO-15	
Trichloroethene	56	5.5	ug/m ³ Air	TO-15	
Benzene	10	3.3	ug/m ³ Air	TO-15	
Toluene	4.6	3.8	ug/m ³ Air	TO-15	
m,p-Xylene	10	8.8	ug/m ³ Air	TO-15	

Sample ID: SV2-13.5 DUP **Laboratory ID:** T163064-05

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Benzene	4.7	3.3	ug/m ³ Air	TO-15	
m,p-Xylene	10	8.8	ug/m ³ Air	TO-15	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/08/16 16:53

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/08/16 16:53

SV1-3.5
T163064-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	ND	12	ug/m ³ Air	1.71	6120135	12/01/16	12/07/16	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	ND	4.2	"	"	"	"	"	"	
Hexane	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/08/16 16:53
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SV1-3.5
T163064-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	3.5	ug/m ³ Air	1.71	6120135	12/01/16	12/07/16	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	16	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	ND	3.3	"	"	"	"	"	"	
Toluene	ND	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	11	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		71.8 %		40-160	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/08/16 16:53

SV1-13.5
T163064-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	12	ug/m ³ Air	1.93	6120135	12/01/16	12/07/16	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	ND	4.2	"	"	"	"	"	"	
Hexane	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Rose Fasheh, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/08/16 16:53
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SV1-13.5
T163064-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	3.5	ug/m ³ Air	1.93	6120135	12/01/16	12/07/16	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	5.5	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	5.5	3.3	"	"	"	"	"	"	
Toluene	ND	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	ND	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		69.6 %		40-160	"	"	"	"	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/08/16 16:53

SV2-3.5
T163064-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	ND	120	ug/m ³ Air	1.91	6120135	12/01/16	12/06/16	TO-15	TO-14
1,3-Butadiene	ND	110	"	"	"	"	"	"	TO-14
Carbon Disulfide	ND	160	"	"	"	"	"	"	TO-14
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	390	"	"	"	"	"	"	TO-14
Isopropyl alcohol	ND	130	"	"	"	"	"	"	TO-14
Bromodichloromethane	ND	340	"	"	"	"	"	"	TO-14
Bromoform	ND	530	"	"	"	"	"	"	TO-14
Bromomethane	ND	200	"	"	"	"	"	"	TO-14
Carbon tetrachloride	ND	320	"	"	"	"	"	"	TO-14
Chlorobenzene	ND	230	"	"	"	"	"	"	TO-14
Chloroethane	ND	130	"	"	"	"	"	"	TO-14
Chloroform	ND	250	"	"	"	"	"	"	TO-14
Chloromethane	ND	110	"	"	"	"	"	"	TO-14
Cyclohexane	ND	170	"	"	"	"	"	"	TO-14
Heptane	ND	210	"	"	"	"	"	"	TO-14
Hexane	ND	180	"	"	"	"	"	"	TO-14
Dibromochloromethane	ND	430	"	"	"	"	"	"	TO-14
1,2-Dibromoethane (EDB)	ND	390	"	"	"	"	"	"	TO-14
1,2-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,3-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
1,4-Dichlorobenzene	ND	310	"	"	"	"	"	"	TO-14
Dichlorodifluoromethane	ND	250	"	"	"	"	"	"	TO-14
1,1-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,2-Dichloroethane	ND	210	"	"	"	"	"	"	TO-14
1,1-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
cis-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
trans-1,2-Dichloroethene	ND	200	"	"	"	"	"	"	TO-14
1,2-Dichloropropane	ND	240	"	"	"	"	"	"	TO-14
cis-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
trans-1,3-Dichloropropene	ND	230	"	"	"	"	"	"	TO-14
4-Ethyltoluene	ND	250	"	"	"	"	"	"	TO-14

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/08/16 16:53
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SV2-3.5
T163064-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	180	ug/m ³ Air	1.91	6120135	12/01/16	12/06/16	TO-15	TO-14
Styrene	ND	220	"	"	"	"	"	"	TO-14
1,1,2,2-Tetrachloroethane	ND	350	"	"	"	"	"	"	TO-14
Tetrahydrofuran	ND	150	"	"	"	"	"	"	TO-14
Tetrachloroethene	ND	350	"	"	"	"	"	"	TO-14
1,1,2-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
1,1,1-Trichloroethane	ND	280	"	"	"	"	"	"	TO-14
Trichloroethene	620	270	"	"	"	"	"	"	TO-14
Trichlorofluoromethane	ND	290	"	"	"	"	"	"	TO-14
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	TO-14
Vinyl acetate	ND	180	"	"	"	"	"	"	TO-14
Vinyl chloride	ND	130	"	"	"	"	"	"	TO-14
1,4-Dioxane	ND	180	"	"	"	"	"	"	TO-14
2-Butanone (MEK)	ND	150	"	"	"	"	"	"	TO-14
Methyl isobutyl ketone	ND	210	"	"	"	"	"	"	TO-14
Benzene	ND	160	"	"	"	"	"	"	TO-14
Toluene	ND	190	"	"	"	"	"	"	TO-14
Ethylbenzene	ND	220	"	"	"	"	"	"	TO-14
m,p-Xylene	ND	220	"	"	"	"	"	"	TO-14
o-Xylene	ND	220	"	"	"	"	"	"	TO-14

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/08/16 16:53

SV2-13.5
T163064-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	12	ug/m ³ Air	1.85	6120135	12/01/16	12/07/16	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	ND	4.2	"	"	"	"	"	"	
Hexane	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/08/16 16:53
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SV2-13.5
T163064-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	3.5	ug/m ³ Air	1.85	6120135	12/01/16	12/07/16	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	14	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	56	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	10	3.3	"	"	"	"	"	"	
Toluene	4.6	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	10	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	

Surrogate: 4-Bromofluorobenzene 72.0 % 40-160 " " " "

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Rose Fasheh, Project Manager

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/08/16 16:53

SV2-13.5 DUP
T163064-05 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Acetone	ND	12	ug/m ³ Air	1.87	6120135	12/01/16	12/07/16	TO-15	
1,3-Butadiene	ND	4.5	"	"	"	"	"	"	
Carbon Disulfide	ND	3.2	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"	"	"	"	"	"	
Isopropyl alcohol	ND	13	"	"	"	"	"	"	
Bromodichloromethane	ND	6.8	"	"	"	"	"	"	
Bromoform	ND	11	"	"	"	"	"	"	
Bromomethane	ND	4.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	6.4	"	"	"	"	"	"	
Chlorobenzene	ND	4.7	"	"	"	"	"	"	
Chloroethane	ND	2.7	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	11	"	"	"	"	"	"	
Cyclohexane	ND	3.5	"	"	"	"	"	"	
Heptane	ND	4.2	"	"	"	"	"	"	
Hexane	ND	3.6	"	"	"	"	"	"	
Dibromochloromethane	ND	8.7	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	7.8	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	6.1	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	4.1	"	"	"	"	"	"	
1,1-Dichloroethene	ND	4.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	4.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	4.7	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	4.6	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	

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Rose Fasheh, Project Manager



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Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/08/16 16:53
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SV2-13.5 DUP
T163064-05 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

TO-15

Methylene chloride	ND	3.5	ug/m ³ Air	1.87	6120135	12/01/16	12/07/16	TO-15	
Styrene	ND	4.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	7.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	3.0	"	"	"	"	"	"	
Tetrachloroethene	ND	6.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.6	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.6	"	"	"	"	"	"	
Trichloroethene	ND	5.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.7	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	3.6	"	"	"	"	"	"	
Vinyl chloride	ND	2.6	"	"	"	"	"	"	
1,4-Dioxane	ND	18	"	"	"	"	"	"	
2-Butanone (MEK)	ND	15	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	42	"	"	"	"	"	"	
Benzene	4.7	3.3	"	"	"	"	"	"	
Toluene	ND	3.8	"	"	"	"	"	"	
Ethylbenzene	ND	4.4	"	"	"	"	"	"	
m,p-Xylene	10	8.8	"	"	"	"	"	"	
o-Xylene	ND	4.4	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		73.1 %		40-160	"	"	"	"	

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Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 12/08/16 16:53

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6120135 - Canister Analysis

Blank (6120135-BLK1)

Prepared: 12/01/16 Analyzed: 12/07/16

Acetone	ND	12	ug/m ³ Air
1,3-Butadiene	ND	4.5	"
Carbon Disulfide	ND	3.2	"
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"
Isopropyl alcohol	ND	13	"
Bromodichloromethane	ND	6.8	"
Bromoform	ND	11	"
Bromomethane	ND	4.0	"
Carbon tetrachloride	ND	6.4	"
Chlorobenzene	ND	4.7	"
Chloroethane	ND	2.7	"
Chloroform	ND	5.0	"
Chloromethane	ND	11	"
Cyclohexane	ND	3.5	"
Heptane	ND	4.2	"
Hexane	ND	3.6	"
Dibromochloromethane	ND	8.7	"
1,2-Dibromoethane (EDB)	ND	7.8	"
1,2-Dichlorobenzene	ND	6.1	"
1,3-Dichlorobenzene	ND	6.1	"
1,4-Dichlorobenzene	ND	6.1	"
Dichlorodifluoromethane	ND	5.0	"
1,1-Dichloroethane	ND	4.1	"
1,2-Dichloroethane	ND	4.1	"
1,1-Dichloroethene	ND	4.0	"
cis-1,2-Dichloroethene	ND	4.0	"
trans-1,2-Dichloroethene	ND	4.0	"
1,2-Dichloropropane	ND	4.7	"
cis-1,3-Dichloropropene	ND	4.6	"
trans-1,3-Dichloropropene	ND	4.6	"
4-Ethyltoluene	ND	5.0	"
Methylene chloride	ND	3.5	"
Styrene	ND	4.3	"
1,1,2,2-Tetrachloroethane	ND	7.0	"
Tetrahydrofuran	ND	3.0	"

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Pinnacle Environmental Technologies
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Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 12/08/16 16:53

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6120135 - Canister Analysis

Blank (6120135-BLK1)

Prepared: 12/01/16 Analyzed: 12/07/16

Tetrachloroethene	ND	6.9	ug/m ³ Air							
1,1,2-Trichloroethane	ND	5.6	"							
1,1,1-Trichloroethane	ND	5.6	"							
Trichloroethene	ND	5.5	"							
Trichlorofluoromethane	ND	5.7	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl acetate	ND	3.6	"							
Vinyl chloride	ND	2.6	"							
1,4-Dioxane	ND	18	"							
2-Butanone (MEK)	ND	15	"							
Methyl isobutyl ketone	ND	42	"							
Benzene	ND	3.3	"							
Toluene	ND	3.8	"							
Ethylbenzene	ND	4.4	"							
m,p-Xylene	ND	8.8	"							
o-Xylene	ND	4.4	"							
<i>Surrogate: 4-Bromofluorobenzene</i>	36.9		"	45.3		81.6	40-160			

Duplicate (6120135-DUP1)

Source: T163064-01

Prepared: 12/01/16 Analyzed: 12/07/16

Acetone	ND	12	ug/m ³ Air		ND				30	
1,3-Butadiene	ND	4.5	"		ND				30	
Carbon Disulfide	ND	3.2	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	7.7	"		ND				30	
Isopropyl alcohol	ND	13	"		ND				30	
Bromodichloromethane	ND	6.8	"		ND				30	
Bromoform	ND	11	"		ND				30	
Bromomethane	ND	4.0	"		ND				30	
Carbon tetrachloride	ND	6.4	"		ND				30	
Chlorobenzene	ND	4.7	"		ND				30	
Chloroethane	ND	2.7	"		ND				30	
Chloroform	ND	5.0	"		ND				30	
Chloromethane	ND	11	"		ND				30	
Cyclohexane	ND	3.5	"		ND				30	
Heptane	ND	4.2	"		ND				30	

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Project: Grover Cleveland High School
 Project Number: [none]
 Project Manager: Keith Thompson

Reported:
 12/08/16 16:53

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6120135 - Canister Analysis

Duplicate (6120135-DUP1)

Source: T163064-01

Prepared: 12/01/16 Analyzed: 12/07/16

Hexane	ND	3.6	ug/m ³ Air		ND				30	
Dibromochloromethane	ND	8.7	"		ND				30	
1,2-Dibromoethane (EDB)	ND	7.8	"		ND				30	
1,2-Dichlorobenzene	ND	6.1	"		ND				30	
1,3-Dichlorobenzene	ND	6.1	"		ND				30	
1,4-Dichlorobenzene	ND	6.1	"		ND				30	
Dichlorodifluoromethane	ND	5.0	"		ND				30	
1,1-Dichloroethane	ND	4.1	"		ND				30	
1,2-Dichloroethane	ND	4.1	"		ND				30	
1,1-Dichloroethene	ND	4.0	"		ND				30	
cis-1,2-Dichloroethene	ND	4.0	"		ND				30	
trans-1,2-Dichloroethene	ND	4.0	"		ND				30	
1,2-Dichloropropane	ND	4.7	"		ND				30	
cis-1,3-Dichloropropene	ND	4.6	"		ND				30	
trans-1,3-Dichloropropene	ND	4.6	"		ND				30	
4-Ethyltoluene	ND	5.0	"		ND				30	
Methylene chloride	ND	3.5	"		ND				30	
Styrene	ND	4.3	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	7.0	"		ND				30	
Tetrahydrofuran	ND	3.0	"		ND				30	
Tetrachloroethene	ND	6.9	"		3.66				30	
1,1,2-Trichloroethane	ND	5.6	"		ND				30	
1,1,1-Trichloroethane	ND	5.6	"		ND				30	
Trichloroethene	15.2	5.5	"		15.7			3.02	30	
Trichlorofluoromethane	ND	5.7	"		ND				30	
1,3,5-Trimethylbenzene	ND	5.0	"		ND				30	
1,2,4-Trimethylbenzene	3.16	5.0	"		2.99			5.56	30	
Vinyl acetate	ND	3.6	"		ND				30	
Vinyl chloride	ND	2.6	"		ND				30	
1,4-Dioxane	ND	18	"		ND				30	
2-Butanone (MEK)	ND	15	"		ND				30	
Methyl isobutyl ketone	ND	42	"		ND				30	
Benzene	2.17	3.3	"		2.22			2.53	30	
Toluene	2.43	3.8	"		2.23			8.45	30	
Ethylbenzene	3.32	4.4	"		3.25			2.30	30	
m,p-Xylene	11.6	8.8	"		11.0			5.33	30	

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

Pinnacle Environmental Technologies 2 Santa Maria Foothill Ranch CA, 92610	Project: Grover Cleveland High School Project Number: [none] Project Manager: Keith Thompson	Reported: 12/08/16 16:53
--	--	------------------------------------

TO-15 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6120135 - Canister Analysis

Duplicate (6120135-DUP1)	Source: T163064-01			Prepared: 12/01/16 Analyzed: 12/07/16						
o-Xylene	2.64	4.4	ug/m ³ Air		2.57			2.90	30	
Surrogate: 4-Bromofluorobenzene	32.1		"	45.3		71.0	40-160			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

Pinnacle Environmental Technologies
2 Santa Maria
Foothill Ranch CA, 92610

Project: Grover Cleveland High School
Project Number: [none]
Project Manager: Keith Thompson

Reported:
12/08/16 16:53

Notes and Definitions

- TO-14 TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Rose Fasheh, Project Manager

SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: 7163064

Client Name: PINNACLE ENV. Project: GROVER CLEVELAND HIGH SCHOOL

Delivered by: Client SunStar Courier GSO FedEx Other

If Courier, Received by: _____ Date/Time Courier Received: _____

Lab Received by: SUNNY Date/Time Lab Received: 11:30/16:30

Total number of coolers received: 0

Temperature: Cooler #1	~ °C +/- the CF (- 0.2°C) =	~ °C corrected temperature
Temperature: Cooler #2	~ °C +/- the CF (- 0.2°C) =	~ °C corrected temperature
Temperature: Cooler #3	~ °C +/- the CF (- 0.2°C) =	~ °C corrected temperature
Temperature criteria = ≤ 6°C (no frozen containers)		Within criteria? <input type="checkbox"/> Yes <input type="checkbox"/> No
If NO:		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → Complete Non-Conformance Sheet
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → Complete Non-Conformance Sheet

Custody seals intact on cooler/sample Yes No* N/A

Sample containers intact Yes No*

Sample labels match Chain of Custody IDs Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: SL 11-30-16

Comments:



Project Name: CLEVELAND HIGH SCHOOL			
Company: PINNACLE		Name:	KEITH
		Phone:	
Item	Quantity		Unit
2 oz Jars 24/CS			
4 oz Jars 24/CS			
8 oz Jars 12/CS			
40 ml unpreserved VOAs 100/box			
40 ml HCL-preserved VOAs 72/box			
250 ml Poly 24/CS			
1 Liter Poly 12/CS			
500 ml Poly 16/CS			
500 ml Amber Bottle Wide 12/CS			
1 Liter Amber Bottle 12/CS			
1 Gallon Poly 4/box			
5035 kits:(2)Sodium Bisulfate VOAs 72/box			
	(1) Methanol VOA 72/box		
	(1)Syringe 50/pack		
Lock-N-Load Handle 1/pack			
Tedlar Bags 10/pack			
Manifold, Inst. Sampler, Variable Sampler	2-MANIFOLDS (150)		CHARGE - 1
Sub Slab Insert w/ washer & N/F			
Soil Gas SS 16" Drop Tubes			
Gas Extraction Fittings			
Soil Gas Filters			
	# SENT	USED	UNUSED
Batch Certified Summa Canisters	400cc		
	1L	4 (2-N, 2-P)	
	3L		
	6L		
Individually Certified Summa Canisters	400cc		
	1L	5	5
	3L		
	6L		
Cooler (Small, Medium, Large) Number & Quantity			
Swagelok Fittings: Nuts/Ferrules, Ts	6-NUT/FERRULES		6 RETURNED
Other: Poly Tube, Valves, Silicon Tape, etc.	TEFLON TUBING		
Prepared By: BRIAN	Date:	11/30/16	
Reviewed By:	Date :		

Asset Check-In Receipt

SunStar Laboratories Inc.

Check-In Date: 11/30/2016

User Name: Lounethone, Sunny

Asset Tag	Asset Type	Serial No	Location	Customer No.	Customer Name
0199	1000cc: 1000cc Summa	0199	Sunstar Labs, Tustin Air Lab	Pinnacle-Keith	Keith Thompson
0220	1000cc: 1000cc Summa	0220	Sunstar Labs, Tustin Air Lab	Pinnacle-Keith	Keith Thompson
0244	1000cc: 1000cc Summa	0244	Sunstar Labs, Lake Forest Air Lab	Pinnacle-Keith	Keith Thompson
0368	1000cc: 1000cc Summa	0368	Sunstar Labs, Lake Forest Air Lab	Pinnacle-Keith	Keith Thompson
0441	1000cc: 1000cc Summa	0441	Sunstar Labs, Tustin Air Lab	Pinnacle-Keith	Keith Thompson
0726	1000cc: 1000cc Summa	0726	Sunstar Labs, SunStar Labs - South	Pinnacle-Keith	Keith Thompson
0785	1000cc: 1000cc Summa	0785	Sunstar Labs, SunStar Labs - South	Pinnacle-Keith	Keith Thompson
2052	Vapor Manifold: Vapor Manifold	2052	Sunstar Labs, Lake Forest Air Lab	Pinnacle-Keith	Keith Thompson
2065	Vapor Manifold: Vapor Manifold	2065	Sunstar Labs, Lake Forest Air Lab	Pinnacle-Keith	Keith Thompson

WORK ORDER

T163064

Client: Pinnacle Environmental Technologies
Project: Grover Cleveland High School

Project Manager: Rose Fasheh
Project Number: [none]

Report To:

Pinnacle Environmental Technologies
 Keith Thompson
 2 Santa Maria
 Foothill Ranch, CA 92610

Date Due: 12/08/16 17:00 (5 day TAT)

Received By: Sunny Lounethone

Date Received: 11/30/16 16:30

Logged In By: Sunny Lounethone

Date Logged In: 11/30/16 17:20

Samples Received at:

Custody Seals	No	Received On Ice	No
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
----------	-----	-----	---------	----------

T163064-01 SV1-3.5 [Air] Sampled 11/30/16 11:15 (GMT-08:00) Pacific Time (US &

TO-15	12/08/16 15:00	5	12/30/16 11:15	
-------	----------------	---	----------------	--

T163064-02 SV1-13.5 [Air] Sampled 11/30/16 11:15 (GMT-08:00) Pacific Time (US &

TO-15	12/08/16 15:00	5	12/30/16 11:15	
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T163064-03 SV2-3.5 [Air] Sampled 11/30/16 11:15 (GMT-08:00) Pacific Time (US &

TO-15	12/08/16 15:00	5	12/30/16 11:15	
-------	----------------	---	----------------	--

T163064-04 SV2-13.5 [Air] Sampled 11/30/16 11:15 (GMT-08:00) Pacific Time (US &

TO-15	12/08/16 15:00	5	12/30/16 11:15	
-------	----------------	---	----------------	--

T163064-05 SV2-13.5 DUP [Air] Sampled 11/30/16 11:15 (GMT-08:00) Pacific Time (US &

TO-15	12/08/16 15:00	5	12/30/16 11:15	
-------	----------------	---	----------------	--

APPENDIX F

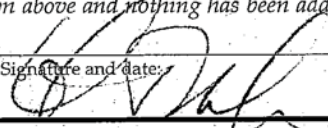
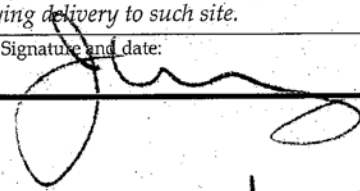
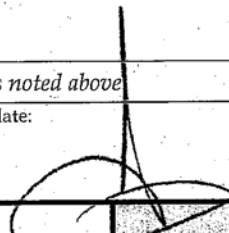
MANIFEST FOR DRUM DISPOSAL

Manifest

SOIL SAFE OF CA - TPST

Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 2/7/17	Responsible for Payment:	Transport Truck #: 198 732	Facility #: A07	Approval Number: 46904	Load #: 10011		
Generator's Name and Billing Address: L.A.U.S.D. - OEHS 333 S. BEAUDRY AVE., 21ST FLOOR LOS ANGELES, CA 90017			Generator's Phone #: 213-241-3190				
			Person to Contact:				
			FAX#:		Customer Account Number		
Consultant's Name and Billing Address:			Consultant's Phone #:				
			Person to Contact:				
			FAX#:		Customer Account Number		
Generation Site (Transport from): (name & address) CLEVELAND HIGH SCHOOL 8140 VANALDEN AVE RESEDA, CA 91335			Site Phone #:				
			Person to Contact:				
			FAX#:				
Designated Facility (Transport to): (name & address) SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301			Facility Phone #: (800) 862-8001				
			Person to Contact: JOE PROVANSAL				
			FAX#: (760) 246-8004				
Transporter Name and Mailing Address: BELSHIRE 25971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 277433			Transporter's Phone #: 949-460-5200		CAR000183913		
			Person to Contact: LARRY MOOTHART		450647		
			FAX#: 949-460-5210		Customer Account Number		
Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	01 DM	Soil	38760	38140	660
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					33
List any exception to items listed above:					Scale Ticket # 130929		
Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.							
Print or Type Name: Generator <input type="checkbox"/> Consultant <input checked="" type="checkbox"/> Keith Thompson as Agent for city of LA			Signature and date: 		Month Day Year 1/19/17		
Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.							
Print or Type Name: Joe Fernaym			Signature and date: 		Month Day Year 01/29/17		
Discrepancies:							
Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above							
Print or Type Name: J. PROVANSAL			Signature and date: 		Month Day Year 2-7-17		

Generator and/or Consultant

Transporter

Recycling Facility

Please print or type.

APPENDIX G

**HUMAN HEALTH SCREENING EVALUATION
PREPARED BY
ENVIRONMENTAL HEALTH DECISIONS**

Human Health Screening Evaluation

Cleveland High School

Prepared for:

Pinnacle Environmental Technologies

#2 Santa Maria

Foothill Ranch, California 92610

Prepared by:

Environmental Health Decisions

16 Main Street

Ladera Ranch, California 92694

Submitted to:

Los Angeles Unified School District

Department of Toxic Substances Control



Jill Ryer-Powder, Ph.D., DABT
Principal Health Scientist

March 2017

Human Health Screening Evaluation

The purpose of this Human Health Screening Evaluation (HHSE) is to determine whether current and/or historical activities at the Cleveland High School (the Site) have resulted in releases of chemicals that could adversely impact the health of school children or staff. The school is located at 8140 Vanalden Avenue in Los Angeles, California. This HHSE is conducted in accordance with DTSC guidelines (DTSC, 2015) using data collected during the most current assessment (November, 2016).

A human health screening evaluation consists of three steps: 1) identifying potentially complete exposure pathways based on the conceptual site model (CSM), 2) identifying chemicals of potential concern (COPCs), and 3) estimating COPC exposures or doses, combining this information with the potential toxicity of the COPCs, and calculating cancer risk and noncancer hazard. Exposure to chemicals may occur if there is a complete pathway for humans to touch, ingest or inhale chemicals in site soil, water, or air. Potential dose and risk are calculated based on an evaluation of potential exposure concentrations of the COPCs, the chronic daily intake or dose for the relevant receptors, and the estimated health risks based on the toxicity of each COPC.

Default exposure parameters provided by the United States Environmental Protection Agency (USEPA) and California Environmental Protection Agency's Department of Toxic Substances Control (DTSC) that represent the Reasonable Maximum Exposure (RME) are incorporated in calculations of cancer risk and noncancer hazard. Incremental cancer risks and noncancer hazard indices are calculated for a residential scenario. Exposure pathways evaluated include incidental ingestion of soil, dermal contact with soils, and inhalation of fugitive dust and volatile chemicals in outdoor air. Assessments for soil exposures are conducted using the screening assessment methodology presented by DTSC (DTSC, 2015).

1.0 Conceptual Site Model

Chemicals detected in at least one sample in soil are initially evaluated as COPCs. Arsenic, lead, chlordane, and dieldrin were detected in soil samples. The maximum detected concentrations of chemicals in soil were used as the exposure point concentrations in evaluating the screening risk for the site. A summary of the data is presented in Summary of Data table below:

SUMMARY OF DATA

Analyzed Compounds	Number. of Analyzed Samples	Number of Samples with Detections	Range of Detections
Total Lead	82	18	12-190 mg/kg
Arsenic	83	18	4.6-65 mg/kg
Organochlorine Pesticides	61	6	5.6-29 ug/kg
<i>alpha-chlordane</i>	<i>61</i>	<i>3</i>	<i>5.6-21 ug/kg</i>
<i>gamma-chlordane</i>	<i>61</i>	<i>1</i>	<i>13 ug/kg</i>
<i>Endosulfan I (endrin)</i>	<i>61</i>	<i>1</i>	<i>5.8 ug/kg</i>
<i>dieldrin</i>	<i>61</i>	<i>3</i>	<i>8.3-29 ug/kg</i>
Total Petroleum Hydrocarbons	3	2	<i>nd-170 mg/kg</i>

Human Health Screening Evaluation
Cleveland High School

<i>C13-C28 (diesel range)</i>	3	3	110 mg/kg
<i>C29-C40 (oil range)</i>	3	3	170 mg/kg
Volatile Organic Compounds	1	0	-
PCBs	9	1	20 ug/kg
<i>PCB 1260</i>	9	1	20 ug/kg

mg/kg - milligrams per kilogram

ug/kg - micrograms per kilogram

mdl - method detection limit

Consistent with DTSC (2015) guidance, this HHSE assumes that the entire site is available for contact by onsite residents. The CSM identifies the pertinent receptor groups, exposure media and exposure pathways associated with the site. The CSM is presented in table below:

CONCEPTUAL SITE MODEL

Exposure Receptors	Exposure Pathways	Dataset Used	Exposure Point Concentration
Residential	Incidental Ingestion	Soil data from November, 2016	Maximum concentration of all chemicals except 95% UCL concentrations of lead and arsenic
Residential	Dermal Contact	Soil data from November, 2016	Maximum concentration of all chemicals except 95% UCL concentrations of lead and arsenic
Residential	Inhalation of Outdoor Air	Soil data from November, 2016	Maximum concentration of all chemicals except 95% UCL concentrations of lead and arsenic

1.1 Soil Exposure Pathways

The maximum detected concentrations of organochlorine pesticides, TPH, and PCBs and the 95% upper confidence limit of the mean concentrations of lead and arsenic in soil were used as the representative exposure point concentrations in evaluating the screening risk for the site. A list of the chemicals their exposure point concentrations are provided in the Human Health Screening Evaluation table. The potential exists for exposure to these chemicals by dermal contact and incidental soil ingestion, and indirect contact by inhalation of particulates in outdoor air.

Lead was detected at a maximum concentration of 190 mg/kg in soil. The residential screening level for lead in soil is 80 mg/kg (OEHHA, 2009). There were 3 samples in which lead was present at a concentration greater than 80 mg/kg, i.e., B7 (88 mg/kg), B37 (190 mg/kg), and B54 (150 mg/kg). The 95% upper confidence limit of the mean (95% UCL) was calculated using the United States Environmental Protection Agency's ProUCL program (USEPA, 2015). The 95% UCL was 26.55 milligrams per kilogram (mg/kg). ProUCL output is presented in Attachment 1. The 95%

UCL is less than the residential screening level for lead in soil, therefore, lead is not further evaluated as a COPC for this site.

Arsenic was detected at a maximum concentration of 65 mg/kg in soil. Naturally occurring concentrations of arsenic in California soils are assumed, for school sites, to be approximately 12 mg/mg (DTSC, 2007). There were 3 samples in which arsenic was present at a concentration greater than 12 mg/kg, i.e., B10 (65 mg/kg) and B58 (at 2 depths, 14 and 18 mg/kg). The 95% upper confidence limit of the mean (95% UCL) was calculated using the United States Environmental Protection Agency's ProUCL program (USEPA, 2015). The 95% UCL was 8.59 milligrams per kilogram (mg/kg). ProUCL output is presented in Attachment 1. The 95% UCL is less than the naturally occurring level for arsenic in soil, therefore, arsenic is not further evaluated as a COPC for this site.

1.2 Water Exposure Pathways

Groundwater beneath the site will not be used as a source of drinking water. No perennial surface water bodies currently occur on or in the vicinity of the site. For these reasons, exposures to drinking and surface waters were not evaluated.

1.3 Air Exposure Pathways

Exposure to nonvolatile chemicals may occur via inhalation of fugitive dust. Exposure to volatile chemicals may occur via inhalation of vapors that migrate from soil to outdoor air. Exposures via inhalation of fugitive dust and ambient air are accounted for in the Regional Screening Levels used in this screening health risk assessment.

1.4 Summary of Selected Exposure Pathways

For the purpose of this human health screening evaluation, residents were assumed to be exposed to chemicals detected in soil by direct dermal contact, incidental ingestion, and inhalation of particulates and inhalation of volatile chemicals. Exposure to groundwater and surface water were deemed incomplete pathways and not further evaluated.

2.0 Exposure Point Concentrations and Chemicals

In accordance with the DTSC guidance (DTSC, 2015), the maximum detected or 95% UCL COPC concentrations were evaluated as representative exposure point concentrations (EPCs) for soil exposures. Soil data collected in November of 2016 from the sampled depths of 0.5, 1.5, and 2.5 feet below ground surface were used in the evaluation.

3.0 Toxicity Values

The toxicity assessment characterizes the relationship between the magnitude of exposure to a COPC, and the nature and magnitude of adverse health effects that may result from such exposure. For purposes of calculating exposure criteria to be used in risk assessments, adverse health effects are classified into two broad categories – carcinogens and noncarcinogens. Toxicity values are generally developed based on the threshold approach for noncarcinogenic effects and the non-threshold approach for carcinogenic effects. Toxicity values may be based on epidemiological studies and/or subchronic or chronic animal data. Toxicity values used in this assessment are embedded into the Regional Screening Levels (RSLs) (USEPA, 2016) modified, if necessary as discussed in DTSC HHRA Note 3 (DTSC, 2016).

3.1 Carcinogenic Effects

Certain chemicals are regulated as carcinogens based on the likelihood that exposure may cause cancer in humans. Numerical estimates of cancer potency for these chemicals are presented as cancer slope factors (CSFs). The CSF defines the cancer risk due to constant lifetime exposure to one unit of a carcinogen (units of risk per mg/kg-day). CSFs are derived by calculating the 95% upper control level (UCL) on the slope of the linear portion of the dose-response curve using the multistage cancer model on the study data. Use of the 95% UCL of the slope means that there is a 5% chance that the probability of a response could be greater than the estimated value for the experimental data used. This is a conservative approach and may overestimate the actual risk. Carcinogenic slope factors assume no threshold for effect, i.e. all exposures to a chemical are assumed to be associated with some risk. CSFs used in this assessment are embedded into the RSLs (USEPA, 2016; DTSC, 2016).

3.2 Noncarcinogenic Effects

For the purpose of assessing hazard associated with noncarcinogenic effects, the EPA has adopted a science policy position that protective mechanisms such as repair, detoxification, and compensation must be overcome before an adverse health effect is manifested. Therefore, it is assumed that a range of exposures exists from zero to some finite value (a threshold) that can be tolerated by the organism without appreciable risk of adverse effects occurring.

Noncarcinogenic effects are evaluated using California EPA (if available) or USEPA Reference Concentrations (RfCs) and Reference Doses (RfDs) (OEHHA, 2017 and USEPA, 2017). The RfCs and RfDs are health-based criterion based on the assumption that thresholds exist for noncarcinogenic toxic effects. In general, the RfC and RfD are estimates (with uncertainty) of a daily exposure to the human population that are likely without appreciable risk of chronic effects during a lifetime of exposure. RfCs are expressed as acceptable daily doses in milligrams per cubic meter (mg/m³). RfDs are expressed as acceptable daily doses in milligrams of compound per kilogram of body weight per day (mg/kg-day). RfCs and RfDs used in this assessment are embedded into the RSLs.

4.0 Risk Characterization

The risk characterization process integrates the quantitative and qualitative results of the data evaluation, exposure and toxicity assessments. The purpose is to estimate the likelihood, incidence, and magnitude of the potential human health effects from exposure to the COPCs under study and provide summary judgments regarding the nature of the health threat to the defined receptor populations.

4.1 Cancer Risks

For a chemical identified as a carcinogen, the maximum soil concentration detected is divided by its RSL for a residential receptor (modified, if necessary, as discussed in DTSC HHRA Note 3 so that the screening levels utilized are those specifically recommended by the DTSC), and multiplied by 10⁻⁶ to calculate the cancer risk posed by that chemical. The risk for each individual chemical is then added to get a screening estimate of the cumulative risk. The cumulative risk is then compared with a one-in-a million (1 x 10⁻⁶, or 1E-06) *de minimis*, or insignificant risk level. This evaluation is presented in the Human Health Screening Evaluation table.

4.2 Noncancer Hazards

For a chemical identified as causing adverse non-cancer health effects, the maximum concentration is divided by its RSL to get a Hazard Quotient (HQ) for that chemical. The HQs for each individual chemical are summed to obtain a site-related Hazard Index (HI). The HI is then compared to a DTSC acceptable benchmark level of 1.0. Implicit in the HQ is the assumption of a threshold level of exposure below which no adverse effects would occur. This evaluation is presented in the Human Health Screening Evaluation table.

4.3 Results of Human Health Screening Evaluation

As presented in the Human Health Screening Evaluation table, the cumulative cancer risk was 9×10^{-7} (also expressed as 0.9 in 1 million or 9E-07). This value is less than the *de minimis* level of 1 in 1 million. The cumulative noncancer hazard index was 1. This is equal to the benchmark level of 1.

HUMAN HEALTH SCREENING EVALUATION

Chemical	Maximum Concentration (mg/kg)	95% UCL (mg/kg)	DTSC Cancer SL (mg/kg)	DTSC Noncancer SL (mg/kg)	EPA Cancer RSL (mg/kg)	EPA Noncancer RSL (mg/kg)	Cancer Risk	Noncancer Hazard Index
alpha-Chlordane	0.021		440	none listed	1.7	35	4.8E-11	6.0E-04
gamma-Chlordane	0.013		440	none listed	1.7	35	3.0E-11	3.7E-04
Dieldrin	0.029		none listed	none listed	0.034	3.2	8.5E-07	9.1E-03
Endosulfan I	0.0058		none listed	none listed	none listed	470	nc	1.2E-05
Arsenic	65	8.59	Use screening level of 12 mg/kg				na	na
Lead	190	26.55	none listed	80 mg/kg	none listed	400 mg/kg	na	na
PCB 1260	0.02		none listed	none listed	0.24	none listed	8.3E-08	na
C13-C28 aliphatic	55		nc	none listed	nc	96	nc	5.7E-01
C13-C28 aromatic	55		nc	none listed	nc	110	nc	5.0E-01
C29-C40 aliphatic	85		nc	none listed	nc	230000	nc	3.7E-04
C29-C40 aromatic	85		nc	none listed	nc	2500	nc	3.4E-02

9E-07

1

Notes:

mg/kg - milligrams per kilogram

nc - not a carcinogen

na - not applicable

95% UCL - 95 % upper confidence limit of the mean calculated using USEPA ProUCL

DTSC SL - Department of Toxic Substances Control Screening Level, HERO Note 3, June, 2016

EPA RSL - United States Environmental Protection Agency Regional Screening Level, May, 2016

DTSC SL (screening level) for alpha-chlordane and gamma-chlordane based on chlordane

EPA RSL for endosulfan I based on Endosulfan

5.0 Uncertainty Analysis

Risk assessments are a management tool for developing conservative estimates of health hazards that are unlikely to underestimate the true risk for potentially exposed populations. As a result, the numerical estimates in a risk assessment have associated uncertainties reflecting the limitations in available knowledge about site concentrations, exposure assumptions (e.g., chronic exposure concentrations, intake rates, frequency of time spent at home), and chemical toxicity. Where information is incomplete, conservative (over-protective) assumptions must be made. The greater the uncertainty, the more conservative are the assumptions, in an attempt to be protective of public health. In other words, although calculations of exposure often must be simplified to a few pathways or subgroups within a population, the simplifying assumptions should be more likely to overestimate than underestimate risk so that public health is protected regardless of other unknown conditions. Even when actual characteristics of a population are known, assumptions for exposure are often biased toward producing over-protective rather than under-protective health risk estimates for the majority of the population.

This assessment is conducted for a residential receptor. The Site is currently used for a school. Therefore, exposure parameters used in this assessment represent a greater exposure than what actually will occur.

6.0 Results of the Risk Characterization

The COPCs identified for the site initially included chlorinated insecticides, TPH, PCBs, lead, and arsenic. Based on the 95% UCL concentrations of lead and arsenic and a comparison to a regulatory screening level for lead and a naturally occurring background concentration for arsenic, these metals were eliminated from further assessment. The following table presents a summary of the cancer risk and noncancerous hazard index for exposure to COPCs in soil for residential receptors.

SUMMARY OF CANCER RISK/NONCANCER HAZARD INDEX - SCREENING HUMAN HEALTH RISK ASSESSMENT

Cancer Risk from Soil Exposures	9E-07
Noncancer Hazard Index from Soil Exposures	1

7.0 References

DTSC, 2007. 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.

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Human Health Screening Evaluation
Cleveland High School

Health Screening Levels for Lead. September.

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United States Environmental Protection Agency (USEPA). 2016. Regional Screening Levels. May.

APPENDIX H

PUBLIC NOTICE

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

November 16, 2016

TO: Neighbors and Community Members of the
Grover Cleveland Charter High School

FROM: Los Angeles Unified School District
Office of Environmental Health and Safety

REGARDING: Notice of Environmental Testing Activities
Grover Cleveland Charter High School, Reseda, California

The Los Angeles Unified School District (LAUSD) - Office of Environmental Health and Safety (OEHS) would like to provide you with advance notice of soil and soil gas testing that will be conducted within the boundaries of Grover Cleveland Charter High School, located at 8140 Vanalden Avenue, Reseda, California, 91335. The testing is a first step of the comprehensive modernization planned for the campus.

Fieldwork is scheduled to begin November 21, 2016, and is expected to be completed before the first day of the Spring Semester (January 9, 2017). Fieldwork that may create noise and dust will be conducted when students are away from school (e.g. weekends and holidays).

If you have any questions concerning the upcoming testing or other activities related to the proposed comprehensive modernization of Grove Cleveland Charter High School, please contact Eric Longenecker, LAUSD-OEHS Site Assessment Project Manager, at (213) 241-4263 (email at eric.longenecker@lausd.net).

Thank you in advance for your patience and understanding during this process.

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.

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

16 de noviembre, 2016

A: Vecinos y Miembros de la Comunidad de la
Escuela Preparatoria Autónoma Grover Cleveland

De: Oficina de Salud y Seguridad Ambiental (OEHS) del
Distrito Escolar Unificado de Los Ángeles

Asunto: Aviso de Actividades para Pruebas Ambientales
Escuela Preparatoria Autónoma Grover Cleveland
Reseda, California

La Oficina de Salud y Seguridad (OEHS) del Distrito Escolar Unificado de Los Ángeles (LAUSD) por la presente quiere notificarle de manera anticipada sobre pruebas ambientales del suelo y de los gases del suelo que se llevarán a cabo dentro de los límites de la Escuela Preparatoria Autónoma Grover Cleveland, ubicada en el 8140 Vanalden Avenue, Reseda, California, 91335. Las pruebas son el primer paso para la modernización integral prevista para el plantel escolar.

El trabajo de campo está programado para comenzar el 21 de noviembre, 2016, y se espera terminará antes del primer día de clases del semestre de la primavera (9 de enero, 2017). El trabajo de campo que pueda causar ruido y polvo se llevará a cabo cuando los estudiantes no estén presentes en el plantel escolar (por ejemplo, los fines de semana y días festivos).

Si usted tiene alguna pregunta acerca de las pruebas que se aproximan u otras actividades relacionadas con la modernización integral propuesta para la Escuela Preparatoria Autónoma Grover Cleveland, por favor, comuníquese con Eric Longenecker, Gerente de Proyectos de Evaluación del LAUSD-OEHS, al (213) 241 a 4263 o por correo electrónico a Eric.longenecker@lausd.net

Gracias de antemano por su paciencia y comprensión durante este proceso.

Si desea información en español por favor comuníquese con Fortunato Tapia de Relaciones Comunitarias del LAUSD-FSD al (213) 241-1338 (Línea Directa) o al (213) 241-1340 (Línea Principal) o por correo electrónico a fortunato.tapia@lausd.net

Appendix J

House Keeping Technical Memorandum



April 24, 2017

Mr. Lawrence Browne
Los Angeles Unified School District
Office of Environmental Health And Safety
333 North Beaudry Street, 21st Floor
Los Angeles, CA 90017

**SITE: GROVER CLEVELAND CHARTER HIGH SCHOOL
8140 VANALDEN STREET
RESEDA, CALIFORNIA 91335**

SUBJECT: TECHNICAL MEMORANDUM ON HOUSEKEEPING ACTIVITIES

Dear Mr. Browne:

Pinnacle Environmental Technologies (Pinnacle) has prepared the following Technical Memorandum describing the housekeeping tasks performed at the Grover Cleveland Charter High School (the school). The school is owned and operated by the Los Angeles Unified School District (LAUSD). These tasks consisted of completing six small excavations at locations selected based on the results and conclusions generated by a Preliminary Environmental Assessment – Equivalent (PEA-E) completed by Pinnacle. The excavations were located in the portion of the school campus previously selected for future modernization and investigation by the PEA-E (the project area).

1.0 BACKGROUND

Pinnacle performed soil sampling at 85 boring locations in five Areas of Concern (AOC-1 through AOC-5) (B1 through B85). Soil samples were collected at depths of 0.5, 1.5 and 2.5 feet below ground surface (bgs) at 84 of the 85 locations. Soil vapor samples were collected from pairs of soil vapor probes installed at 3.5 and 13.5 feet bgs at two locations in AOC-1 (SV1 and SV2).

Based on the analytical results from these soil and soil vapor samples, Pinnacle recommended the removal of soil from six locations. The chosen locations were those with lead concentrations exceeding the LAUSD screening level of 80 milligrams of kilograms (mg/kg), arsenic exceeding the screening level of 12 mg/kg, or trichloroethene (TCE) concentration in soil vapor exceeding the screening level of 480 micrograms per cubic meter (ug/m^3).

Pinnacle provided OEHS an Amendment request consisting of a scope of work and estimated cost based on competitive subcontractor bids. OEHS sent Pinnacle an approval dated February 8, 2017 to begin the work.

2.0 SCOPE OF WORK

Pinnacle planned to remove soil from the following previously advanced boring locations: B7, B10, B37, B54, B58 and SV2. The intended excavation parameters at these locations are provided on the attached table. The depths of the excavations at the soil boring locations were defined by previously generated laboratory data for the project area presented in the Pinnacle PEA-E. The depth of the excavation at soil vapor probe location SV2 was chosen to exceed the depth of the shallower probe where the highest TCE vapor concentration was observed (Table 1).

Pinnacle marked the corners of the excavation boundaries on the morning of April 6, 2017, as required by Underground Services Alert of Southern California (DigAlert). DigAlert was notified on the same date regarding the intended subsurface work and was issued number A70961222 to identify the intended subsurface work and to notify effected member locaters. None of the excavations needed to be moved based on the information generated by the DigAlert locaters. Pinnacle also requested that Spectrum Geophysics identify the utilities in the vicinity of the planned excavations. Based on their work, the excavation at boring B54 was moved approximately one foot and made slightly narrower to avoid utilities.

The soil intended for excavation and disposal was profiled for disposal at South Yuma County Landfill (Yuma). It was accepted as a California (non-RCRA) hazardous waste containing lead and arsenic. Laboratory results generated during the PEA-E were sufficient to perform profiling. The profile approval is attached to the memo.

Stronagrm Environmental Field Services performed the excavations and saw-cut the overlying asphalt at locations B54, B58 and SV2. The remaining excavations were in landscaped areas. The excavations were advanced by hand where utilities were known or suspected. Several holes had PVC irrigation lines that were preserved. A Bobcat with a mini-

April 24, 2017

Grover Cleveland
Charter High School

Technical Memorandum
Housekeeping Activities

backhoe was used to excavate in areas with no utilities. Belshire Environmental Services (Belshire) provided an 18-yard covered bin with a plastic liner for soil transport and disposal. Only soil was loaded into the bin. The Bobcat was also used to move soil to the bin from the excavations. While Yuma also accepted disposal of the asphalt, Strongarm transported the asphalt to their shop to reduce bin weight and disposal costs.

The excavations were backfilled with top soil imported from Whittier Fertilizer, an OEHS pre-approved soil provider. The soil was placed in each hole in one- to two-foot lifts and compacted using a rammer while avoiding piping at depth. The excavations at boring locations B54, B58 and SV2 were paved with compacted hot asphalt by Empire Parking Lot Services to match the surrounding surface. The remaining excavations were backfilled with soil to the surface. Imported soil remaining from backfill activities was placed in surface depressions throughout AOC-3. Work areas were swept of soil and tire dust produced when the Bobcat moved material from the excavations to the bin.

Since access to the school was not available on April 14, 2017, Pinnacle arranged to meet Belshire at the school to remove the bin early on the morning of April 17, 2017 prior to the arrival of students and staff. The bin is scheduled for transport from the Belshire facility to Yuma on April 24, 2017. The manifest and weight ticket for the load is also attached to this memo.

Please contact us (949) 470-3691 if you have any questions regarding this memo.

Sincerely,

PINNACLE ENVIRONMENTAL TECHNOLOGIES



Keith G. Thompson, P.G., C.Hg.
Principal

Attachments: Project Area Figures
Excavation Area Table
South Yuma County Landfill Profile Form and Manifest/Weight Ticket
Photographs

**TABLE 1
EXCAVATION LOCATION SUMMARY**

GROVER CLEVELAND HIGH SCHOOL
8140 Vanalden Avenue
Reseda, California

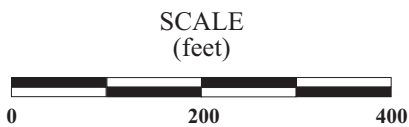
Boring Number	Area of Concern	Building or Area	Removal Based On	Excavation Depths	Excavation Area
B7	1	Northeast corner of Utility Building	Lead in soil at 0.5' greater than screening level of 80 mg/kg	1.5'	4' by 4'
B10	1	In planter, north side of Building L	Arsenic in soil at 0.5' greater than screening level of 12 mg/kg	1.5'	4' by 4'
SV2	1	West of Interceptor	TCE in soil vapor greater than screening level of 460 ug/m ³	4'	4' by 4'
B37	2	In planter, northeast corner of Building J	Lead in soil at 0.5' greater than screening level of 80 mg/kg	1.5'	4' by 4'
B54	3	West of buildings AA-2199 and AA-3887	Lead in soil at 0.5' greater than screening level of 80 mg/kg	1.5'	3' by 4'
B58	3	Drain at southeast corner of storage building	Arsenic in soil at 0.5' and 1.5' greater than screening level of 12 mg/kg	2.5'	4' by 4'

NOTES:

TCE - Trichloroethene

mg/kg - milligrams per kilogram

ug/L - micrograms per liter

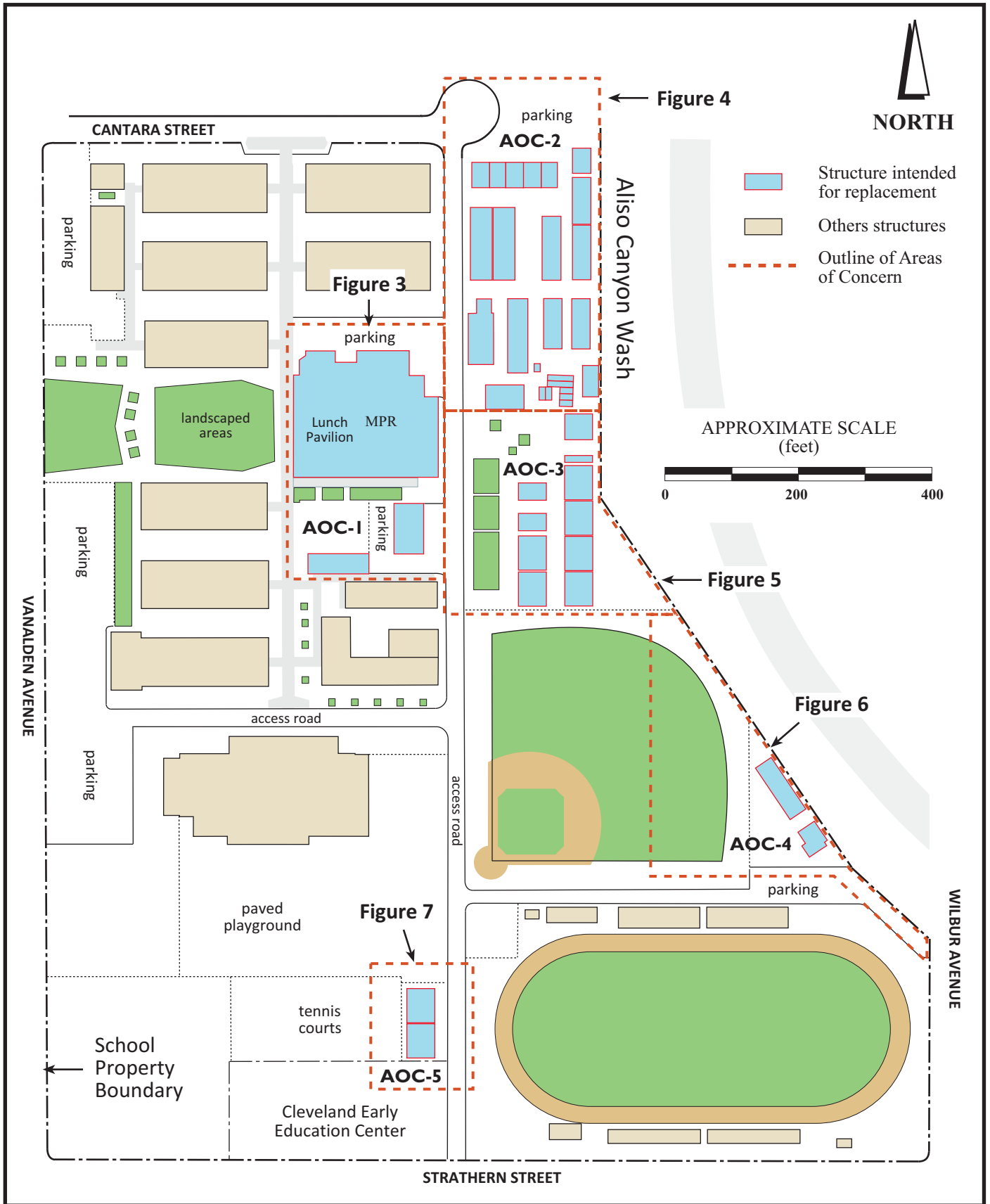


PINNACLE
ENVIRONMENTAL TECHNOLOGIES
#2 Santa Maria, Foothill Ranch, CA 92610
Tel: (949) 470-3691 • Fax: (949) 595-0459

**Grover Cleveland
Charter High School
8140 Vanalden Avenue
Reseda, California**

**Site
Location
Map**

**Figure
1**



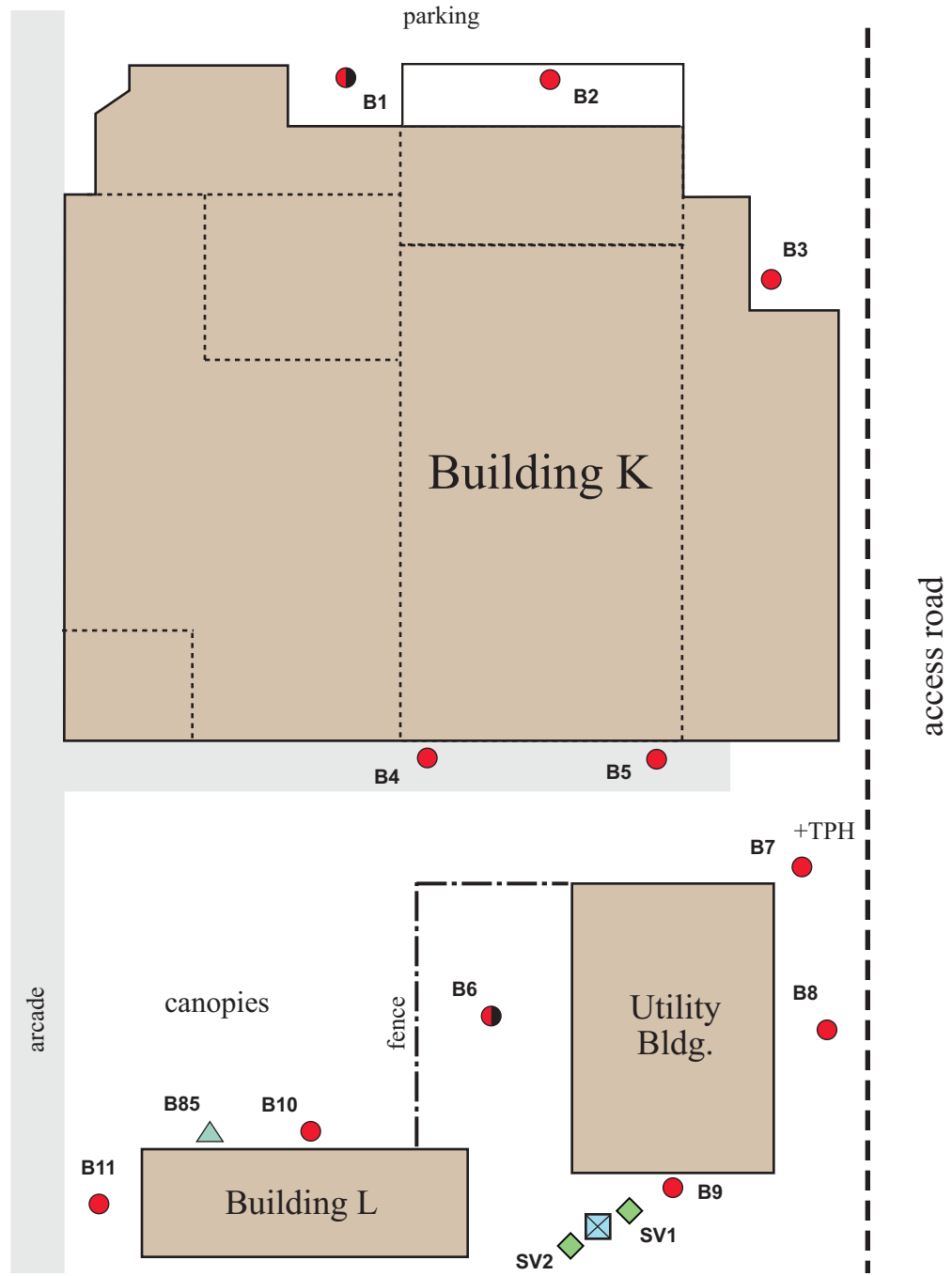

PINNACLE
ENVIRONMENTAL TECHNOLOGIES



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**Grover Cleveland
Charter High School**
8140 Vanalden Avenue
Reseda, California

**AOC
Location
Index Map**





**Figure
2**



-  Interceptor location
-  Structures intended for removal

APPROXIMATE SCALE
(feet)



-  B85 Stepout soil sampling locations with boring number, arsenic analysis
-  B6 Initial soil sampling locations with boring number, arsenic analysis
-  B8 Initial soil sampling locations with boring number, lead, arsenic and OCP analysis
-  SV2 Soil and soil vapor sampling location with location number, TPH, metals and VOCs analysis for soil, VOCs analysis for soil vapor



PINNACLE

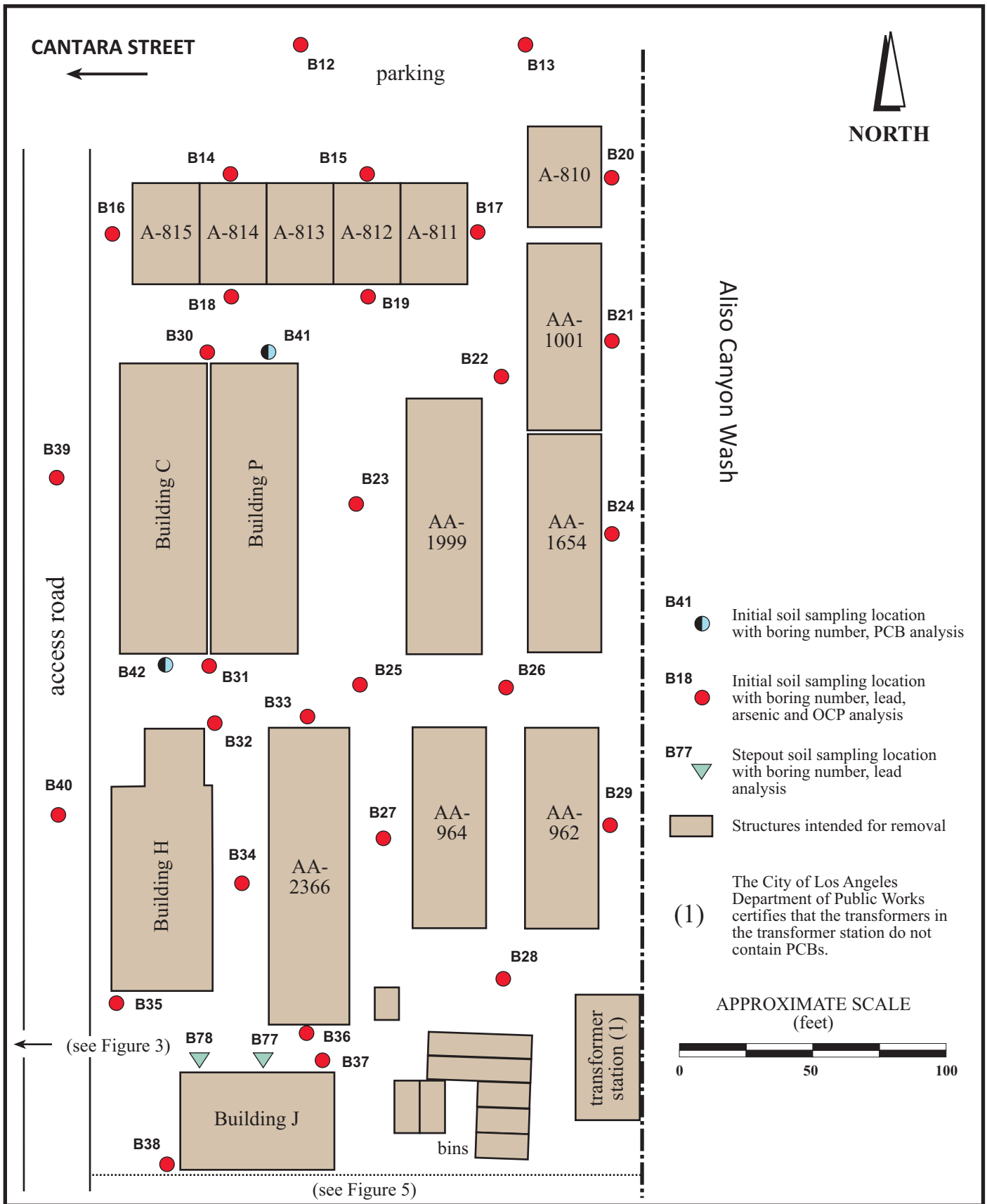
ENVIRONMENTAL TECHNOLOGIES

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**Grover Cleveland
Charter High School
8140 Vanalden Avenue
Reseda, California**

**AOC-1
Soil Sampling
Locations
(Bldgs K, L, Util)**

**Figure
3**

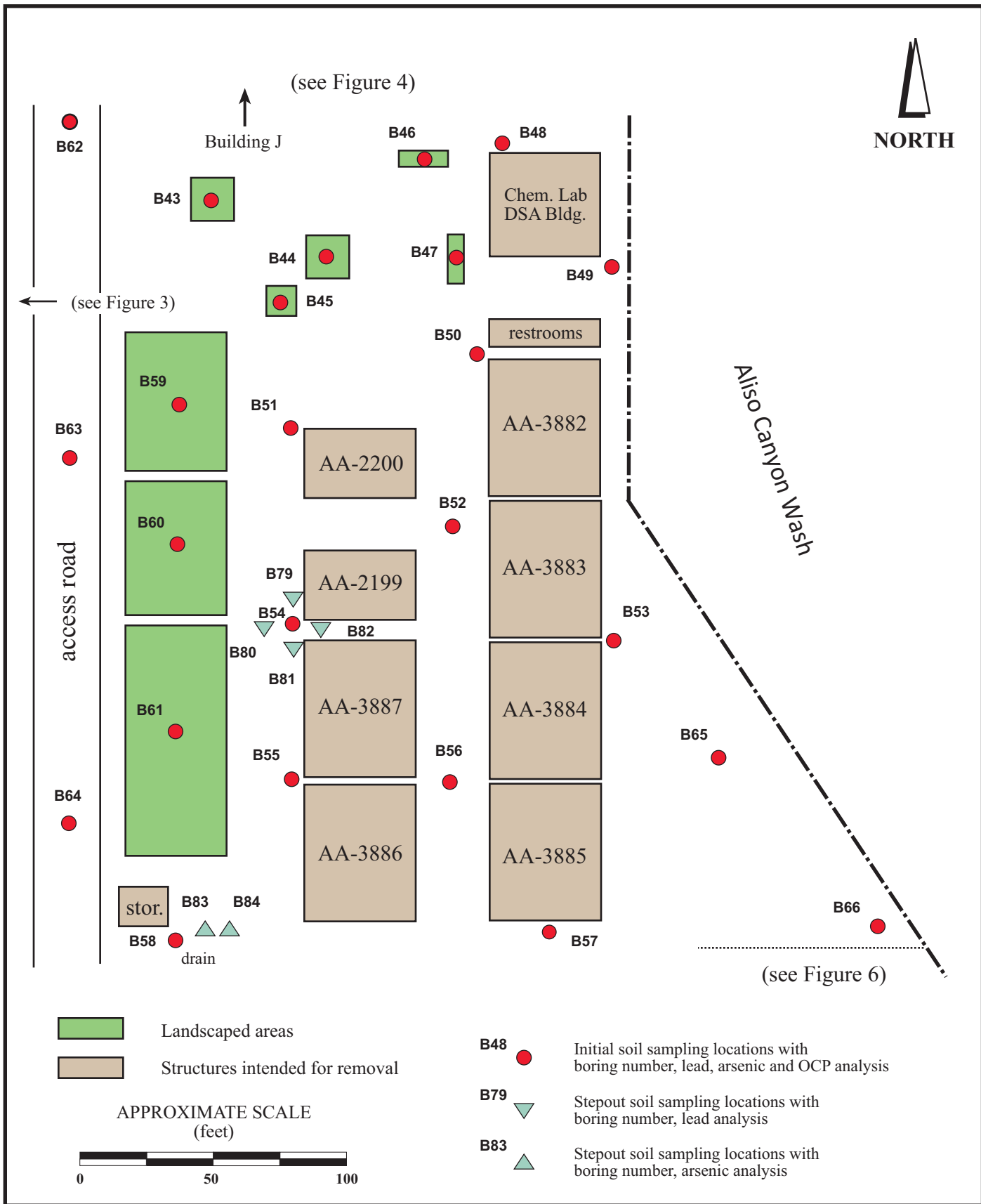


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**Grover Cleveland
 Charter High School
 8140 Vanalden Avenue
 Reseda, California**

**AOC-2 Soil
 Sampling Locations**
 (Bldgs C, P, H, J, AA-962, 964,
 810/5, 1001, 1964, 1999)

**Figure
 4**



PINNACLE

ENVIRONMENTAL TECHNOLOGIES

#2 Santa Maria, Foothill Ranch, CA 92610
Tel: (949) 470-3691 • Fax: (949) 595-0459

**Grover Cleveland
Charter High School
8140 Vanalden Avenue
Reseda, California**

**AOC-3 Soil
Sampling Locations**
(Bldgs AA-2199, 2200,
3882/7, Chem Lab, Rest.)

**Figure
5**

SOUTH YUMA COUNTY LANDFILL - GENERATOR WASTE PROFILE SHEET

PLEASE COMPLETE ALL SECTIONS - THIS FORM MUST BE TYPED - DO NOT HANDWRITE

New Profile Profile Renewal Approval No: _____

I. GENERATOR INFORMATION			DATE: 12/17/15	
GENERATOR NAME: L.A.U.S.D. - Cleveland High School (EPA #CAD982039281)				
GENERATOR SITE ADDRESS: 8140 Vanalden Ave.				
CITY: Reseda	COUNTY: Los Angeles County	STATE: CA	ZIP: 91335	
GENERATOR MAILING ADDRESS: 333 S. Beaudry Ave., 21st Floor				
CITY: Los Angeles	COUNTY: Los Angeles	STATE: CA	ZIP: 90017	
GENERATOR CONTACT NAME: Brian Cass (Belshire)				
PHONE NUMBER: (949) 460-5200	FAX NUMBER: (949) 460-5210	Email: brian@belshire.com		

II. TRANSPORTER INFORMATION		TRANSPORTER NAME: BELSHIRE			Contact Name: BRIAN CASS
TRANSPORTER ADDRESS: 25971 Towne Centre Dr.					
CITY: Foothill Ranch	COUNTY: Orange County	STATE:	ZIP: 92610		
PHONE NUMBER: (949) 460-5200	FAX NUMBER: (949) 460-5210	Email: brian@belshire.com			

III. FINANCIAL RESPONSIBILITY (Billing Information)		
NAME: BELSHIRE ENV. SERVICES, INC.	PHONE: (949) 460-5200	E-MAIL: brian@belshire.com
ADDRESS: 25971 Towne Centre Dr.	CITY: Foothill Ranch	STATE & ZIP: CA, 92610

IV. WASTE STREAM INFORMATION	
NAME OF WASTE:	NON-RCRA SOIL (with Lead & Arsenic)
PROCESS GENERATING WASTE	Excavation/Remediation -- Soil contaminated with Metals encountered during upgrade activities.
PHYSICAL STATE:	<input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> LIQUID
METHOD OF SHIPMENT:	<input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED/BOXED <input type="checkbox"/> TOTES <input type="checkbox"/> OTHER:
ESTIMATED QUANTITY, <i>must state volume</i> :	40.00 <input checked="" type="checkbox"/> TONS or <input type="checkbox"/> GALLONS
SPECIAL HANDLING INSTRUCTIONS: Wear All Appropriate Personal Protective Equipment.	

V. PHYSICAL CHARACTERISTIC COMPONENTS OF WASTE		BY % RANGE
	TYPE OF WASTE	1% TO 99.9%
1	SOIL	99-100%
2	LEAD (TTLC = ND to 190 mg/kg / STLC - ND -to 6.7 mg/l / TCLP = ND)	< 0.02%
3	ARSENIC (TTLC = ND to 65 mg/kg / STLC = ND to 6.6 mg/l)	< 0.007%
4	TPH (ND to 28 mg/kg)	< 0.003%

Color	Odor (describe)	Liquids (circle)	% Solid	pH:	Flash Point:
Brown / White	None	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	100.00	N/A	N/A

SOUTH YUMA COUNTY LANDFILL

PO BOX 125; Staton, CA 90680-0125

928-341-9300

ACCOUNT#: BELSHIRE

TRANSACTION INFORMATION

BELSHIRE ENVIRONMENTAL SERVC
25971 TOWNE CENTRE DR.

TICKET# : 1196338
DATE IN : 4/25/2017 TIME IN : 07:36 AM
DATE OUT: 4/25/2017 TIME OUT: 07:59 AM

FOOTHILL RANCH, CA92610

JOB #: C-4327

HAULER: BELSHIRE ENVIRONMENTAL SERVC

TRUCK # : 567

TRUCK LICENSE #:

CONTAINER #:

PLEASE NOTE: Account Customers Only: A State of Arizona per ton landfill fee of \$0.25 will be added to your Inv.

REFUSE	WEIGHT IN	WEIGHT OUT	NET WEIGHT
NON -HAZ SOIL	43540 LBS	28760 LBS	7.39 TONS

CUSTOMER SIGNATURE

WEIGHMASTER/DEPUTY

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT AND MEASURE

THIS IS TO CERTIFY that the above described merchandise, was weighed, counted, or measured by the public or deputy weighmaster, and when properly signed, and sealed, shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

Keyed Weigh Out

form-m

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number CAD982039201	2. Page 1 of 1	3. Emergency Response Phone (913) 703-3294	4. Manifest Tracking Number 009696096 FLE	
5. Generator's Name and Mailing Address L.A.U.S.D. - OEHHS (Attn: Bill Piazza) 333 S. Beaudry Ave., 21st Floor Los Angeles, CA 90017			Generator's Site Address (if different than mailing address) LAUSD - Cleveland High School 8140 Vandalen Ave. Riverside, CA 91335			
Generator's Phone: (213) 241-3199						
6. Transporter 1 Company Name BELSHIRE			U.S. EPA ID Number CAR000183913			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address South Yuma County Landfill 19536 South Avenue 1E Yuma, AZ 85365			U.S. EPA ID Number AZR000506980			
Facility's Phone: (928) 341-9300						
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.
	1. Non-PCRA Hazardous Waste, Solid (Soil Impacted with Lead & Arsenic)		1 0M		10	Y
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information ERG #: 171 9b.1. Soil Impacted with Lead & Arsenic			WEAR ALL APPROPRIATE PROTECTIVE CLOTHING BEST: 280886 PROFILE# C-4327			
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/Offor's Printed/Typed Name Bill Piazza			Signature <i>[Signature]</i>		Month 4	Day 13
					Year 17	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Jason Johnson			Signature <i>[Signature]</i>		Month 4	Day 17
					Year 17	
Transporter 2 Printed/Typed Name Jason Johnson			Signature <i>[Signature]</i>		Month 4	Day 17
					Year 17	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
Manifest Reference Number: _____						
18b. Alternate Facility (or Generator)					U.S. EPA ID Number	
Facility's Phone: _____						
18c. Signature of Alternate Facility (or Generator)					Month	Day
					Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name Remin Greene			Signature <i>[Signature]</i>		Month 4	Day 17
					Year 17	

**EXCAVATION
PHOTOGRAPHS**



Photograph 1 – Boring B7 location after excavation.



Photograph 2 – Boring B7 location after backfilling.



Photograph 3 – Boring B10 after excavation.



Photograph 4 – Boring B37 after backfilling.



Photograph 5 – Boring B54 after backfilling and paving.



Photograph 6 – Vapor probe SV2 after excavation.



Photograph 7 – Vapor probe SV2 after excavation, second view.



Photograph 8 – Vapor probe SV2 excavation after backfilling and paving.



Photograph 9 – Boring B58 after excavation.



Photograph 10 – Boring B58 after backfilling and paving.

Appendix K

Standard Conditions of Approval

Los Angeles Unified School District

Standard Conditions of Approval

Cleveland Charter High School Comprehensive Modernization Project

September 2017

Standard Conditions of Approval

The following Standard Conditions of Approval have been updated since the adoption of the 2015 version in order to incorporate and reflect changes in the recent laws, regulations, and the Los Angeles Unified School District's standard policies, practices, and specifications.

Standard Conditions of Approval

Apply if Checked	Reference #	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions	Original Source	Responsible Implementing Party	Signature of Responsible Party (OEHS)
AESTHETICS								
<input type="checkbox"/>	SC-AE-1	Degradation of neighborhood character	Demolition of historic building or construction of a new building	During project design (Planning)	School Design Guide. This document outlines measures for re-use rather than destruction of historical resources. Requires the consideration of architectural appearance/consistency and other aesthetic factors during the preliminary design review for a proposed school upgrade project. Architectural quality must consider compatibility with the surrounding community.	School Design Guide. Los Angeles Unified School District. Current Version.	Design Builder	_____ Signature Title: Date:
<input type="checkbox"/>	SC-AE-2	Degradation of neighborhood character	May increase graffiti and accumulation of rubbish and debris along the walls adjacent to public rights-of-way	During project operation (Planning, Construction & Post-Construction)	School Design Guide. This document outlines measures to reduce aesthetic impacts around schools, such as shrubs and ground treatments that deter taggers, vandal-resistant and graffiti-resistant materials, painting, etc.	School Design Guide. Los Angeles Unified School District. Current Version.	Design Builder and LAUSD, FSD, M&O	_____ Signature Title: Date:
<input type="checkbox"/>	SC-AE-3	Degradation of neighborhood character and viewshed obstruction	Increase density, height, bulk, or decrease setback compared to the surrounding neighborhood; increase opportunities for graffiti	During project design (Planning)	LAUSD shall assess a proposed project's consistency with the general character of the surrounding neighborhood, including any proposed changes to the density, height, bulk, and setback of new building (including stadium), addition, or renovation. Where feasible, LAUSD shall make appropriate design changes to reduce or eliminate viewshed obstruction and degradation of neighborhood character. Such design changes could include, but are not limited to, changes to campus layout, height of buildings, landscaping, and/or the architectural style of buildings.	2004 New Construction Program EIR Mitigation Measure AE-1.1 , adopted by the Board of Education on June 2004.	Design Builder	_____ Signature Title: Date:
<input type="checkbox"/>	SC-AE-4	Outdoor signs with electronic message display	Install or change a school marquee	Prior to final design and prior to and during installation	Marquee Signs Bulletin BUL-5004.1. This policy provides guidance for the procurement and installation of marquee signs (outdoor sign with electronic message display) on District campuses. The policy includes requirements for the design, approval, placement, operation, and maintenance of electronic school marquees erected and operated at a LAUSD schools. The policy also includes measures to mitigate light and glare, such as the use of "luminaries" in connection with school construction.	School marquees (outdoor sign with electronic message display). BUL-5004.1 adopted May 25, 2010.	Design Builder	_____ Signature Title: Date:
<input type="checkbox"/>	SC-AE-5	Shadows	Construction of buildings or structures taller than surrounding neighborhood	Prior to project approval	OEHS CEQA Specification Manual, Appendix F, Protocol for Shadow Analysis in CEQA Documents for Proposed School Sites. This document outlines the methodology and impact thresholds for shadow analysis.	LAUSD OEHS CEQA Specification Manual, Appendix F, Protocol For Shadow Analysis In CEQA Documents For Proposed School Sites. December 2005, Revised June 2007.	LAUSD OEHS	_____ Signature Title: Date:
<input type="checkbox"/>	SC-AE-6	Light and glare	Generate additional light and/or glare	During and after installation of lights (Construction)	School Design Guide. This document outlines requirements for lighting and measures to minimize glare for pedestrians, drivers and sports teams, and to avoid light spilling onto adjacent properties.	School Design Guide. Los Angeles Unified School District. Current Version.	Design Builder	_____ Signature Title: Date:
<input type="checkbox"/>	SC-AE-7	Light and glare	Generate additional light and/or glare	Prior to building occupation, first stadium	LAUSD shall reduce the lighting intensity from the new sources on adjacent residences to no more than two foot-candles, measured at the residential property	2004 New Construction Program EIR Mitigation Measure AE-1.2 ,	Design Builder	

Standard Conditions of Approval

Apply if Checked	Reference #	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions	Original Source	Responsible Implementing Party	Signature of Responsible Party (OEHS)
				event, or first use of lights (Construction)	line. LAUSD shall utilize hoods, filtering louvers, glare shields, and/or landscaping as necessary to achieve the standard. The lamp enclosures and poles shall also be painted to reduce reflection. Following installation of lights the lighting contractor shall review and adjust lights to ensure the standard is met.	adopted by the Board of Education on June 2004.		_____ Signature Title: Date:
<input type="checkbox"/>	SC-AE-8	Light and glare	Generate additional light and/or glare	Prior to building occupation, first stadium event, or first use of lights (Construction)	Design site lighting and select lighting styles and technologies to have minimal impact off-site and minimal contribution to sky glow. Minimize outdoor lighting of architectural and landscape features and design interior lighting to minimize trespass outside from the interior. International Dark-Sky Association (IDA) and the Illuminating Engineering Society (IES) Model Lighting Ordinance (MLO) shall be used as a guide for environmentally responsible outdoor lighting. The MLO outdoor lighting has outdoor lighting standards that reduce glare, light trespass, and skyglow. The Joint IDA-IESNA Model Outdoor Lighting Ordinance (MLO) uses lighting zones (LZ0-4) which allow the District to vary the stringency of lighting restrictions according to the sensitivity of the area as well as consideration for the community. The MLO also incorporates the Backlight-Uplight-Glare (BUG) rating system for luminaires, which provides more effective control of unwanted light. IDA-IESNA Model establishes standards to: <ul style="list-style-type: none"> • Limit the amount of light that can be used • Minimize glare by controlling the amount of light that tends to create glare • Minimize sky glow by controlling the amount of uplight • Minimize the amount of off-site impacts or light trespass 	Based on The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III--Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. SS5.1: Light Pollution Reduction. Includes additional language from International Dark-Sky Association (IDA).	Design Builder	_____ Signature Title: Date:
AIR QUALITY								
<input type="checkbox"/>	SC-AQ-1	Air Toxics Health Risk	Place new classrooms or outdoor play areas: -Within ¼-mile of mobile and stationary emission sources -Within 500 feet of a major transportation corridor (freeway, major rail line) -Within 500 feet of a major stationary source of emissions -On the LAUSD priority list of schools most at risk from air pollution -Near a high-risk facility previously identified by the OEHS.	Prior to project approval (Planning)	OEHS CEQA Specification Manual, Appendix J, Air Toxics Health Risk Assessment (HRA). This document includes guidance on HRA protocols for permitted, nonpermitted, and mobile sources that might reasonably be anticipated to emit hazardous air emissions and result in potential long-term and short-term health impacts to student and staff at the school site.	LAUSD OEHS CEQA Specification Manual, Appendix J, Air Toxics Health Risk Assessment (HRA). December 2005, Revised June 2007.	LAUSD OEHS	_____ Signature Title: Date:

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<input checked="" type="checkbox"/>	SC-AQ-2	Construction Emissions	Requires the use of large construction equipment	During construction	LAUSD's construction contractor shall ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications, to ensure excessive emissions are not generated by unmaintained equipment.	LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR.	Design Builder	_____ Signature Title: Date:
<input type="checkbox"/>	SC-AQ-3	Construction Emissions	Requires a removal action for soil contamination	During construction	<p>LAUSD's construction contractor shall:</p> <ul style="list-style-type: none"> • Maintain slow speeds with all vehicles. • Load impacted soil directly into transportation trucks to minimize soil handling. • Water/mist soil as it is being excavated and loaded onto the transportation trucks. • Water/mist and/or apply surfactants to soil placed in transportation trucks prior to exiting the site. • Minimize soil drop height into transportation trucks or stockpiles during dumping. • During transport, cover or enclose trucks transporting soils, increase freeboard requirements, and repair trucks exhibiting spillage due to leaks. • Cover the bottom of the excavated area with polyethylene sheeting when work is not being performed. • Place stockpiled soil on polyethylene sheeting and cover with similar material. <p>Place stockpiled soil in areas shielded from prevailing winds.</p>	LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR.	Design Builder	_____ Signature Title: Date:
<input type="checkbox"/>	SC-AQ-4	Construction Emissions	Exterior construction and the use of large, heavy or noisy construction equipment	During planning and construction (Planning & Construction)	<p>LAUSD shall prepare an air quality assessment:</p> <p>If site-specific review of a school construction project identifies potentially significant adverse regional and localized construction air quality impacts, then LAUSD shall implement all feasible measures to reduce air emissions below the South Coast Air Quality Management District's (SCAQMD) regional and localized significance thresholds.</p> <p>LAUSD shall mandate that construction bid contracts include the measures identified in the air quality assessment. Measures shall reduce construction emissions during high-emission construction phases from vehicles and other fuel driven construction engines, activities that generate fugitive dust, and surface coating operations. Specific air emission reduction measures include, but are not limited to, the following:</p> <p><u>Exhaust Emissions</u></p> <ul style="list-style-type: none"> • Schedule construction activities that affect traffic flow to off-peak hours (e.g. between 10:00 AM and 3:00 PM). • Consolidate truck deliveries and/or limit the number of haul trips per day. • Route construction trucks off congested streets. • Employ high pressure fuel injection systems or engine timing retardation. • Utilize ultra-low sulfur diesel fuel, containing 15 ppm sulfur or less (ULSD) in all diesel construction equipment. 	2004 New Construction Program EIR Mitigation Measure AQ-2.1, adopted by the Board of Education on June 2004.	LAUSD OEHS and Design Builder	_____ Signature Title: Date:

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					<ul style="list-style-type: none"> • Use construction equipment rated by the United States Environmental Protection Agency as having Tier 3 (model year 2006 or newer) or Tier 4 (model year 2008 or newer) emission limits for engines between 50 and 750 horsepower. • Restrict non-essential diesel engine idle time, to not more than five consecutive minutes. • Utilize electrical power rather than internal combustion engine power generators as soon as feasible during construction. • Utilize electric or alternatively fueled equipment, if feasible. • Utilize construction equipment with the minimum practical engine size. • Utilize low-emission on-road construction fleet vehicles. • Ensure construction equipment is properly serviced and maintained to the manufacturer's standards. <p><u>Fugitive Dust</u></p> <ul style="list-style-type: none"> • Apply non-toxic soil stabilizers according to manufacturers' specification to all inactive construction areas (previously graded areas inactive for ten days or more). • Replace ground cover in disturbed areas as quickly as possible. • Sweep streets at the end of the day if visible soil material is carried onto adjacent public paved roads (recommend water sweepers with reclaimed water). • Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off trucks and any equipment leaving the site each trip. • Pave construction roads that have a traffic volume of more than 50 daily trips by construction equipment, and/or 150 daily trips for all vehicles. • Pave all construction access roads for at least 100 feet from the main road to the project site. • Water the disturbed areas of the active construction site at least three times per day, except during periods of rainfall. • Enclose, cover, water twice daily, or apply non-toxic soil binders according to manufacturers' specifications to exposed piles (i.e., gravel, dirt, and sand) with a five percent or greater silt content. • Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 miles per hour (mph). • Apply water at least three times daily, except during periods of rainfall, to all unpaved road surfaces. • Limit traffic speeds on unpaved road to 15 mph or less. • Prohibit high emission causing fugitive dust activities on days where violations of the ambient air quality standard have been forecast by SCAQMD. • Tarp and/or maintain a minimum of 24 inches of freeboard on trucks hauling dirt, sand, soil, or other loose materials. 			

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					<ul style="list-style-type: none"> Limit the amount of daily soil and/or demolition debris loaded and hauled per day. <p><u>General Construction</u></p> <ul style="list-style-type: none"> Utilize ultra-low VOC or zero-VOC surface coatings. Phase construction activities to minimize maximum daily emissions. Configure construction parking to minimize traffic interference. Provide temporary traffic control during construction activities to improve traffic flow (e.g., flag person). Develop a trip reduction plan for construction employees. Implement a shuttle service to and from retail services and food establishments during lunch hours. Increase distance between emission sources to reduce near-field emission impacts. Require construction contractors to document compliance with the identified mitigation measures. 			
<input type="checkbox"/>	SC-AQ-5	Air Pollutant Emissions	Increases student capacity and/or generates additional traffic	During school operation	LAUSD shall encourage ride-sharing programs for students and teachers as well as maintain fleet vehicles such as school buses, maintenance vehicles, and other service fleet vehicles in good condition in order to prevent significant increases in air pollutant emissions created by operation of a new school.	LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR.	LAUSD OEHS and School Administration	<p>_____</p> <p>Signature</p> <p>Title:</p> <p>Date:</p>
BIOLOGICAL RESOURCES								
<input type="checkbox"/>	SC-BIO-1	Sensitive Species and Habitat	<p>May affect sensitive species and/or their habitat within or near a project site</p> <p>Alter surface drainage in a way that affects sensitive species and/or their habitat</p>	As part of the site-specific CEQA review process; agency coordination prior to the start of construction; monitoring during construction	<p>LAUSD qualified biologist shall identify sensitive species and their habitat within or near proposed project site. LAUSD will conduct a literature search, which shall consider a one-mile radius beyond the project construction site and shall be performed by a qualified biologist with knowledge of local biological conditions as well as the use and interpretation of the data sources identified below. Where appropriate, in the opinion of the biologist, the literature search shall be supplemented with a site visit and/or aerial photo analysis. Resources and information that shall be investigated for each site should include, but not be limited to:</p> <ul style="list-style-type: none"> USFWS National Marine Fisheries Services (NMFS) CDFW California Native Plant Society (CNPS) <ul style="list-style-type: none"> County and/or city planning or environmental offices for sensitive species, habitat, and/or heritage trees that may not exist on published databases. CNDDB 	<p>2004 New Construction Program EIR Mitigation Measures B-1.1 and B-1.2, adopted by the Board of Education on June 2004.</p> <p>Recommendations as listed in CDFW SUP Draft EIR comment letter dated August 4, 2014.</p>	LAUSD OEHS	<p>_____</p> <p>Signature</p> <p>Title:</p> <p>Date:</p>

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					<ul style="list-style-type: none"> • CNPS Rare Plant Inventory • Local Audubon Society • Los Angeles County Department of Regional Planning for information on Significant Ecological Areas • California Digital Conservation Atlas for district-wide location of reserves, plan areas, and land trusts that may overlap with project sites. <p><u>Biological Resources Report</u></p> <p>If the LAUSD qualified biologist determines that a school construction project will affect an identified sensitive plant, animal, or habitat, a biological resources report shall be prepared. To provide a complete assessment of the flora and fauna within and adjacent to a site-specific project impact area, with particular emphasis on identifying endangered, threatened, sensitive, and locally unique species and sensitive habitats, the biological resources report shall include the following.</p> <ul style="list-style-type: none"> • Information on regional setting that is critical to the assessment of rare or unique resources • A thorough, recent floristic-based assessment of special status plants and natural communities, following the CDFW's <i>Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities</i>. CDFW recommends that floristic, alliance- and/or association-based mapping and vegetation impact assessments be conducted at the project site and neighboring vicinity. The <i>Manual of California Vegetation (Sawyer et al.)</i> should also be used to inform this mapping and assessment. Adjoining habitat areas should be included in this assessment where site activities could lead to direct or indirect impacts offsite. Habitat mapping at the alliance level will help establish baseline vegetation conditions. • A current inventory of the biological resources associated with each habitat type onsite and within the area of potential effect. CDFW's California Natural Diversity Data Base (CNDDDB) should be contacted to obtain current information on any previously reported sensitive species and habitat, including Significant Natural Areas identified under Chapter 12 of the Fish and Game Code. • An inventory of rare, threatened, and endangered, and other sensitive species onsite and within the area of potential effect. Species to be addressed should include all those identified in CEQA Guidelines Section 15380, including sensitive fish, wildlife, reptile, and amphibian species. Seasonal variations in use of the project area should also be addressed. Focused species-specific surveys, conducted at appropriate time of year and time of day when sensitive species are active or otherwise identifiable, are required. Acceptable species-specific survey procedures should be developed in consultation with the CDFW and USFWS. • A discussion of the potential adverse impacts from light, noise, human activity, exotic species, and drainage. Drainage analysis should address project-related changes on drainage patterns on and downstream from the site; the volume, 			

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					<p>velocity, and frequency of existing and post- project surface flows; polluted runoff; soil erosion and/or sedimentation in streams and water bodies; and post-project fate of runoff from the project site.</p> <ul style="list-style-type: none"> • Discussions about direct and indirect project impacts on biological resources, including resources in nearby public lands, open space, adjacent natural habitats, wetland and riparian ecosystems, and any designated and/or proposed or existing reserve lands (e.g., preserve lands associated with a NCCP). Impacts on, and maintenance of, wildlife corridor/movement areas, including access to undisturbed habitats in adjacent areas. • Mitigation measures for adverse project-related impacts to sensitive plants, animals, and habitats. Measures should emphasize avoidance and reduction of biological impacts. For unavoidable impacts, onsite habitat restoration or enhancement should be outlined. If onsite measures are not feasible or would not be biologically viable, offsite measures through habitat creation and/or acquisition and preservation in perpetuity should occur. This measure should address restrictions on access, proposed land dedications, monitoring and management programs, control of illegal dumping, water pollution, increased human intrusion, etc. • Plans for restoration and vegetation shall be prepared by qualified biologist with expertise in southern California ecosystems and native plant vegetation techniques. Plans shall include, at a minimum: <ul style="list-style-type: none"> - location of the mitigation site - plant species to be used, container sizes, and seeding rates - schematic depicting the mitigation area - planting schedule - irrigation method - measures to control exotic vegetation - specific success criteria - detailed monitoring program - contingency measures should the success criteria not be met - identification of the party responsible for meeting the success criteria and providing for conservation of the site in perpetuity. <p>LAUSD shall consult with the U.S. Army Corps of Engineers, USFWS and/or the CDFW and comply with any permit conditions or directives from those agencies regarding the protection, relocation, creation, and/or compensation.</p>			
<input type="checkbox"/>	SC-BIO-2	Light Impacts to Sensitive Species	New outdoor lighting that is near sensitive species habitat	During lighting installation and prior to first use of lights (Construction)	LAUSD shall protect sensitive species from harmful exposure to light by shielding light sources, redirecting light sources, or using low intensity lighting.	2004 New Construction Program EIR Mitigation Measure B-1.3, adopted by the Board of Education on June 2004.	Design Builder	<hr/>

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								Signature Title: Date:
<input checked="" type="checkbox"/>	SC-BIO-3	Bird and Bat Nesting Sites	Project site or construction staging are near and/or cause direct disturbances to native and nonnative vegetation, structures, and/or substrates during nesting season (February 1 through August 31; as early as January 1 for some raptors)	Prior to start of construction (Construction)	<p>LAUSD shall comply with the following:</p> <ul style="list-style-type: none"> Project activities (including, but not limited to, staging and disturbances to native and nonnative vegetation, structures, and substrates¹) should occur outside of avian breeding season to avoid take of birds or their eggs.² Depending on the avian species present, a qualified biologist may determine that a change in the breeding season dates is warranted. If avoidance of the avian breeding season is not feasible, beginning 30 days prior to the initiation of the project activities, a qualified biologist with experience in conducting breeding bird surveys shall conduct weekly bird surveys to detect protected native birds occurring in suitable nesting habitat that is to be disturbed and (as access to adjacent areas allows) any other such habitat within 300 feet of the disturbance area (within 500 feet for raptors). The surveys shall continue on a weekly basis with the last survey being conducted no more than three days prior to the initiation of project activities. If a protected native bird is found, LAUSD shall delay all project activities within 300 feet of the suitable nesting habitat (within 500 feet for suitable raptor nesting habitat) until August 31. Alternatively, the qualified biologist could continue the surveys in order to locate any nests. If an active nest is located, project activities within 300 feet of the nest (within 500 feet for raptor nests), or as determined by a qualified biologist, shall be postponed until the nest is vacated and juveniles have fledged and there is no evidence of a second attempt at nesting. Flagging, stakes, and/or construction fencing shall be used to demarcate the inside boundary of the 300- or 500-foot buffer between the project activities and the nest. Project personnel, including all contractors working on site, shall be instructed on the sensitivity of the area. LAUSD shall provide results of the recommended protective measures to document compliance with applicable State and Federal laws pertaining to the protection of native birds. If the qualified biologist determines that a narrower buffer between the project activities and observed active nests is warranted, a written explanation as to why (e.g., species-specific information; ambient conditions and birds' habituation to them; and the terrain, vegetation, and birds' lines of sight between the project activities and the nest and foraging areas) shall be submitted to LAUSD OEHS project manager. Construction contractors can then reduce the demarcated buffer. No construction shall occur within the fenced next zone until the young have fledged, are no longer being fed by the parents, have left the nest, and will no longer be impacted by the construction. 	2004 New Construction Program EIR Mitigation Measure B-1.4, adopted by the Board of Education on June 2004. Recommendations as listed in CDFW SUP Draft EIR comment letter dated August 4, 2014.	Design Builder	Signature Title: Date:

¹ Substrate is the surface on which a plant or animal lives.

² Take means to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture or kill (Fish and Game Code Section 86), and includes take of eggs and/or young resulting from disturbances that cause abandonment of active nests.

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					<ul style="list-style-type: none"> A biological monitor shall be present on site during all grubbing and clearing of vegetation to ensure that these activities remain outside the demarcated buffer and that the flagging, stakes, and/or construction fencing are maintained, and to minimize the likelihood that active nests are abandoned or fail due to project activities. The biological monitor shall send weekly monitoring reports to LAUSD OEHS project manager during the grubbing and clearing of vegetation, and shall notify LAUSD immediately if project activities damage avian nests. 			
<input type="checkbox"/>	SC-BIO-4	Native Oak Trees	Removal of any native mature oak trees or woodland habitat	During construction	<p>LAUSD shall comply with the following:</p> <ul style="list-style-type: none"> Mitigation shall not include translocation of rare plants. CDFW, in most cases does not recommend translocation, salvage, and/or transplantation of rare, threatened, or endangered plant species, in particular oak trees, as compensation for adverse effects because successful implementation of translocation is rare. Even if translocation is initially successful, it will typically fail to persist over time. Permanent conservation of habitat. To ensure the conservation of sensitive plant species, the preferred method is permanent conservation of habitat containing these species; any translocation proposed shall only be an experimental component of a larger, more robust plan. Off-site acquisition of woodland habitat. Due to the inherent difficulty in creating functional woodland habitat with associated understory components, the preferred method is off-site acquisition of woodland habitat in the local area. All acquired habitat shall be protected under a conservation easement and deeded to a local land conservancy for management and protection. Creation of oak woodlands. Any creation of functioning woodlands shall be of similar composition, structure, and function of the affected oak woodland. The new woodland shall mimic the function, demonstrate recruitment, plant density, and percent basal, canopy, and vegetation cover, as well as other measurable success criteria before the measure is deemed a success. <ul style="list-style-type: none"> All seed and shrub sources used for tree and understory species in the new planting site shall be collected or grown from on-site sources or from adjacent areas and shall not be purchased from a supplier. This method should reduce the risk of introducing diseases and pathogens into areas where they might not currently exist. Oaks should be replaced by planting acorns because this has been shown to result in greater oak survival. Monitoring efforts, including the exclusion of herbivores, shall be employed to maximize seedling survival during the monitoring period. Monitoring period for oak woodland shall be at least 10 years with a minimum of seven years without supplemental irrigation. This allows the trees to go through one typical drought cycle. This should also be the minimal time needed to see signs of stress and disease and determine the need for replacement plantings. 	<p>2004 New Construction Program EIR Mitigation Measure B-3.1, adopted by the Board of Education on June 2004.</p> <p>Recommendations as listed in CDFW SUP Draft EIR comment letter dated August 4, 2014.</p>	Design Builder	<p style="text-align: center;">_____ Signature</p> <p>Title: Date:</p>

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<input type="checkbox"/>	SC-BIO-5	Wetlands, Riparian Habitat, and other Sensitive Natural Community	May affect wetlands, riparian habitat, and other sensitive natural community	As part of the site-specific CEQA review process; agency coordination prior to the start of construction; monitoring during and after construction	<p>LAUSD shall request CDFW review and comment on any translocation plans, habitat preservation, habitat creation and/or restoration plans.</p> <p>LAUSD shall comply with CDFW recommendations as listed below:³</p> <ul style="list-style-type: none"> • Project development or conversion that results in a reduction of wetland acreage or wetland habitat values shall not occur unless, at a minimum, replacement or preservation results in "no net loss" of either wetland habitat values or acreage. • All wetlands and watercourses, whether intermittent or perennial, should be retained and provided with substantial setbacks which preserve the riparian and aquatic values and maintain their value to on-site and off-site wildlife populations. • A jurisdictional delineation of creeks and their associated riparian habitats shall be conducted as part of the biological resources report. The delineation should be conducted pursuant to the USFWS wetland definition. • Implementation of recommended measures shall compensate for affected mature riparian corridors and loss of function and value of wildlife corridors. 	<p>2004 New Construction Program EIR Mitigation Measures B-1.1 and B-1.2, adopted by the Board of Education on June 2004.</p> <p>Recommendations as listed in CDFW SUP Draft EIR comment letter dated August 4, 2014.</p>	LAUSD OEHS	<p>Signature</p> <p>Title:</p> <p>Date:</p>
CULTURAL RESOURCES								
<input checked="" type="checkbox"/>	SC-CUL-1	Treatment of Historical Resources	Project may directly or indirectly affect historical resources (i.e., buildings, structures, historic districts, and contributing site plan and landscaping features that are either designated or eligible for local, state, or federal landmark listing)	During project design, design development, pre-construction and construction (Planning & Construction)	<p>Design Team to Include Qualified Historic Architect</p> <p>For campuses with qualifying historical resources under CEQA, the Design team shall include a qualified Historic Architect. The Historic Architect shall provide input to ensure ongoing compliance, as project plans progress, with the <i>Secretary of the Interior's Standards</i> and LAUSD requirements and guidelines for the treatment of historical resources (specific requirements follow in SC-CUL-2).</p> <p>For projects involving structural upgrades to historic resources, the Design team shall include a qualified Structural Engineer with a minimum of eight (8) years of demonstrated project-level experience in Historic Preservation.</p> <p>The Historic Architect/s shall meet the Secretary of the Interior's Professional Qualifications Standards and the standards described on page 8 of the <i>LAUSD Design Guidelines and Treatment Approaches for Historic Schools</i>. The Historic Architect shall provide input throughout the design and construction process to ensure ongoing compliance with the above-mentioned standards.</p>	<p>Los Angeles Unified School District Design Guidelines and Treatment Approaches for Historic Schools. January 2015.</p> <p>LAUSD OEHS CEQA Specification Manual, Appendix H, Historical Resources Policy, (Appendix E.2) LAUSD Cultural Resource Assessment Procedures. December 2005, Revised June 2007.</p>	Design Builder and Historic Architect	<p>Signature</p> <p>Title:</p> <p>Date:</p>

³ Recommendations as listed in CDFW SUP Draft EIR comment letter dated August 4, 2014.

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<input checked="" type="checkbox"/>	SC-CUL-2	Treatment of Historical Resources	Project may directly or indirectly affect historical resources (i.e., buildings, structures, historic districts, and contributing site plan and landscaping features that are either designated or eligible for local, state, or federal landmark listing)	During project design, design development, pre-construction and construction (Planning & Construction)	<p>Role of Historic Architect on Design Team</p> <p>The tasks of the Historic Architect on the Design team shall include (but not necessarily be limited to) the following:</p> <ol style="list-style-type: none"> 1. The Historic Architect shall work with the Design team and LAUSD to ensure that project components, including new construction and modernization of existing facilities, continue to comply with applicable historic preservation standards, including the <i>Secretary of the Interior's Standards for the Treatment of Historic Properties</i> and <i>LAUSD Design Guidelines and Treatment Approaches for Historic Schools</i>. The Historic Architect shall work with the Design team throughout the design process to develop project options that facilitate compliance with the applicable historic preservation standards. 2. For new construction, the Historic Architect shall work with the Design team and LAUSD to identify options and opportunities for (1) ensuring compatibility of scale and character for new construction, site and landscape features, and circulation corridors, and (2) ensuring that new construction is designed and sited in such a way that reinforces and strengthens, as much as feasible, character-defining site plan features, landscaping, and circulation corridors throughout campus. 3. For modernization and upgrade projects involving contributing (significant) buildings or features, the Historic Architect shall work with the Design team and LAUSD to ensure that specifications for design and implementation of projects comply with the applicable historic preservation standards. 4. The Historic Architect shall participate in design team meetings through all phases of the project through 100 percent construction drawings, pre-construction, and construction phases. 5. The Historic Architect shall produce brief memos, at the 50 percent and 100 percent construction drawings stages, demonstrating how principal project components and treatment approaches comply with applicable historic preservation standards, including the <i>Secretary of the Interior's Standards for the Treatment of Historic Properties</i> and <i>LAUSD Design Guidelines and Treatment Approaches for Historic Schools</i>. The memos will be reviewed by LAUSD. 6. The Historic Architect shall participate in pre-construction and construction monitoring activities to ensure continuing conformance with Secretary's Standards and/or avoidance of a material impairment of the historical resources. 7. The Historic Architect shall provide specialized Construction Specifications Institute (CSI) specifications for architectural features or materials requiring 	<p>School Design Guide. Los Angeles Unified School District. Current Version.</p> <p>Los Angeles Unified School District Design Guidelines and Treatment Approaches for Historic Schools. January 2015.</p>	Historic Architect	<p>Signature</p> <p>Title: _____</p> <p>Date: _____</p>

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					<p>restoration, removal, or on-site storage. This shall include detailed instructions on maintaining and protecting in place relevant features.</p> <p>8. The Design team and Historic Architect shall be responsible for incorporating LAUSD's recommended updates and revisions during the design development and review process.</p>			
<input checked="" type="checkbox"/>	SC-CUL-3	Treatment of Historical Resources	Project may directly or indirectly affect historical resources (i.e., buildings, structures, historic districts, and contributing site plan and landscaping features that are either designated or eligible for local, state, or federal landmark listing)	During project design, design development, pre-construction and construction (Planning & Construction)	<p>School Design Guide and LAUSD Design Guidelines and Treatment Approaches for Historic Schools</p> <p>LAUSD has adopted policies and guidelines that apply to projects involving historic resources. The Design-Builder and Historic Architect shall apply these guidelines, which include the <i>LAUSD School Design Guide</i> and <i>LAUSD Design Guidelines and Treatment Approaches for Historic Schools</i> and the <i>Secretary's Standards</i> for all new construction and upgrade/modernization projects. In keeping with the district's adopted policies and goals, LAUSD shall re-use rather than destroy historical resources where feasible.</p> <p>LAUSD shall follow the guidelines outlined in these documents to the maximum extent practicable when planning and implementing projects and adjacent new construction involving historical resources. General guidelines shall include:</p> <ul style="list-style-type: none"> Retain and preserve the historic character of buildings, structures, landscapes, and site features that are historically significant. Repair rather than remove, replace, or destroy character-defining features; if replacement is necessary, replace in-kind to match in materials and appearance. Avoid removing, obscuring, or destroying character-defining features and materials. Treat distinctive architectural features or examples of skilled craftsmanship that characterize a building with sensitivity. 	<p>School Design Guide. Los Angeles Unified School District. Current Version.</p> <p>Los Angeles Unified School District Design Guidelines and Treatment Approaches for Historic Schools. January 2015.</p>	Design Builder and Historic Architect	<p>_____</p> <p>Signature</p> <p>Title:</p> <p>Date:</p>

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					<ul style="list-style-type: none"> • Conceal reinforcement required for structural stability or the installation of life safety or mechanical systems. • Undertake surface cleaning, preparation of surfaces, and other projects involving character-defining features using the least invasive, gentlest means possible. Avoid sandblasting and chemical treatments. 			
☒	SC-CUL-4	Historical Resource Document	Demolition or potential damage to any recognized historic resources or any contributors to a historic district	Prior to demolition or major alteration (Planning & Construction)	<p>Prior to demolition or mothballing activities, LAUSD shall retain a professional architectural photographer and a historian or architectural historian who meets the Secretary of the Interior's Professional Qualifications Standards to prepare HABS-like documentation for the historical resources slated for demolition.</p> <p>The HABS-like package will document in photographs and descriptive and historic narrative the historical resources slated for demolition. Documentation prepared for the package will draw upon primary- and secondary-source research and available studies previously prepared for the project. Measured drawings shall not be required for the project.</p> <p>The specifications for the HABS-like package follow:</p> <p>Photographs: Photographic documentation will focus on the historical resources/features slated for demolition, with overview and context photographs for the campus and adjacent setting. Photographs will be taken of interior and exterior features of the buildings using a professional-quality single lens reflex (SLR) digital camera with a minimum resolution of 10 megapixels. Photographs will include context views, elevations/exteriors, architectural details, overall interiors, and interior details (if warranted). Digital photographs will be printed in black and white on archival film paper and also provided in electronic format.</p> <p>Descriptive and Historic Narrative: The historian or architectural historian will prepare descriptive and historic narrative of the historical resources/features slated for demolition. Physical descriptions will detail each resource, elevation by elevation, with accompanying photographs, and information on how the resource fits within the broader campus during its period of significance. The historic narrative will include available information on the campus design, history, architect/contractor/designer as appropriate, area history, and historic context. In addition, the narrative will include a methodology section specifying the name of researcher, date of research, and sources/archives visited, as well as a bibliography. Within the written history, statements shall be footnoted as to their sources, where appropriate.</p> <p>Historic Documentation Package Submittal: The draft package will be assembled by the historian or architectural historian and submitted to LAUSD for review and comment. After final approval, one hard-copy set of the package will be prepared as follows: Photographs will be individually labeled and stored in individual acid-free sleeves. The remaining components of the historic documentation package (site</p>	2004 New Construction Program EIR Mitigation Measure C-1.5, adopted by the Board of Education on June 2004.	Design Builder	<p>_____ Signature</p> <p>Title: Date:</p>

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					map, photo index, historic narrative, and additional data) will be printed on archival bond, acid-free paper. Upon completion of the descriptive and historic narrative, all materials will be compiled in electronic format and presented to LAUSD for review and approval. Upon approval, one hard-copy version of the historic documentation package will be prepared and submitted to LAUSD. The historian or architectural historian shall offer a hardcopy package and compiled, electronic version of the final package to the Los Angeles Public Library (Central Library), Los Angeles Historical Society, and the South Central Coastal Information Center, to make available to researchers.			
<input checked="" type="checkbox"/>	SC-CUL-5	Historical Resource Reuse	Demolition of any of the recognized historic structures	Prior to demolition or alteration (Construction)	LAUSD, consistent with Education Code Section 17540, shall offer to sell any useful features of the school building (e.g., the school bell, chalkboards, lockers) that do not contain hazardous materials for use or display, if features are not retained by LAUSD for reuse or display.	none	Design Builder	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-CUL-6	Historical Resource Reuse	Demolition of any of the recognized historic structures	Prior to demolition or alteration (Construction)	LAUSD, consistent with Education Code Section 17545, shall offer for sale any remaining functional and defining features and building materials from the buildings. These materials could include doors, windows, siding, stones, lighting, doorknobs, hinges, cabinets, and appliances, among others. They shall be made available to the public for sale and reuse, if features are not retained by LAUSD for reuse or display.	none	Design Builder	_____ Signature Title: Date:
<input type="checkbox"/>	SC-CUL-7	Archaeological Resource	Project area is deemed highly sensitive for archaeological resources	Prior to and during grading, excavation, or other ground-disturbing activities (Construction)	LAUSD shall retain a qualified archaeologist to be available on-call. The qualified archaeologist shall meet the Secretary of the Interior's Professional Qualifications Standards (48 Federal Register 44738-39).	none	Design Builder	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-CUL-8	Historic and Archaeological Resource	Historical or unique archaeological resources are discovered during construction activities	During grading, excavation, or other ground-disturbing activities (Construction)	The contractor shall halt construction activities in the immediate area and notify the LAUSD. LAUSD shall retain a qualified archeologist to make an immediate evaluation of significance and appropriate treatment of the resource. To complete this assessment, the qualified archeologist will be afforded the necessary time to recover, analyze, and curate the find. The qualified archeologist shall recommend the extent of archeological monitoring necessary to ensure the protection of any other resources that may be in the area. Construction activities may continue on other parts of the building site while evaluation and treatment of historical or unique archaeological resources takes place.	2004 New Construction Program EIR Mitigation Measure C-1.7, adopted by the Board of Education on June 2004.	Design Builder	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-CUL-9	Archaeological Resource	Phase I Archaeological Site Investigation shows a strong possibility that	Prior to the start of construction	LAUSD shall implement an archaeological monitoring program for construction activities at a site prepared by a qualified archaeologist under the following conditions: (1) when a Phase I Site Investigation shows a strong possibility that unique archeological resources are buried on the site; and/or (2) when unique	2004 New Construction Program EIR Mitigation Measure C-1.8,	Design Builder	_____ Signature Title:

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		Monitoring Program	unique resources, and/or unique architectural resources have been identified on a site		archaeological resources have been identified on a site, but LAUSD does not implement a Phase III Data Recovery/Mitigation Program because the resources can be recovered through the archaeological monitoring program.	adopted by the Board of Education on June 2004.		Date:
<input checked="" type="checkbox"/>	SC-CUL-10	Archaeological Resource	Evidence of prehistoric or historic cultural resources is uncovered	During grading, excavation, or other ground-disturbing activities (Construction)	All work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist. The qualified archaeologist shall assess the find(s) and, if it is determined to be of value, shall draft a monitoring program and oversee the remainder of the grading program. Should evidence of prehistoric or historic cultural resources be found the archaeologist shall monitor all ground-disturbing activities related to the proposed project. Any significant archaeological resources found shall be preserved as determined necessary by the archaeologist and offered to a local museum or repository willing to accept the resource. Any resulting reports shall also be forwarded to the South Central Coastal Information Center at the California State University, Fullerton.	none	Design Builder	_____ Signature Title: Date:
<input type="checkbox"/>	SC-CUL-11	Archaeological Resource	Project construction requires archaeological monitoring	Prior to the start grading, excavation, or other ground-disturbing activities (Construction)	Cultural resources sensitivity training shall be conducted by a qualified archaeologist for all construction workers involved in moving soil or working near soil disturbance. This training shall review the types of archaeological resources that might be found, along with laws for the protection of resources.	none	Design Builder	_____ Signature Title: Date:
<input type="checkbox"/>	SC-CUL-12	Archaeological Resource	Unique archaeological resources are discovered and LAUSD determines not to avoid them by abandoning the site or redesigning the project	During grading, excavation, or other ground-disturbing activities (Construction)	LAUSD shall determine whether it is feasible to prepare and implement a Phase III Data Recovery/Mitigation Program. A Phase III Data Recovery/Mitigation Program would be designed by a Qualified Archaeologist to recover a statistically valid sample of the archaeological remains and to document the site to a level where the impacts can be determined to be less than significant. All documentation shall be prepared in the standard format of the ARM R Guidelines, as prepared by the OHP. Once a Phase III Data Recovery/Mitigation Program is completed, an archaeological monitor shall be present on site to oversee the grading, demolition activities, and/or initial construction activities to ensure that construction proceeds in accordance with the adopted Phase III Data Recovery/Mitigation Program. The extent of the Phase III Data Recovery/Mitigation Program and the extent and duration of the archaeological monitoring program depend on site-specific factors.	2004 New Construction Program EIR Mitigation Measure C-1.9, adopted by the Board of Education on June 2004.	Design Builder	_____ Signature Title: Date:
<input type="checkbox"/>	SC-CUL-13	Native American Resource	Evidence of Native American resources is uncovered	During grading, excavation, or other ground-disturbing activities (Construction)	All work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Native American representative has been contacted and consulted to assist in the accurate recordation and recovery of the resources.	none	Design Builder	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-CUL-14	Paleontological Resource	Cultural Resources Assessment identifies a project area as sensitive	During grading, excavation, or other ground-disturbing activities	LAUSD shall have a paleontological monitor on-call during construction activities. This monitor shall provide the construction crew(s) with a brief summary of the sensitivity, the rationale behind the need for protection of these resources, and information on the initial identification of paleontological resources. If paleontological resources are uncovered during construction, the on-call paleontologist shall be notified and afforded the necessary	2004 New Construction Program EIR Mitigation Measure C-1.10, adopted by the Board of Education on June 2004.	Design Builder	_____ Signature Title: Date:

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			for paleontological resources	(Construction)	time and funds to recover, analyze, and curate the find(s). Subsequently, the monitor shall remain on site for the duration of the ground disturbances to ensure the protection of any other resources that may be in the area.			
<input type="checkbox"/>	SC-CUL-15	Paleontological Resource	Project area is deemed highly sensitive for paleontological resources	During grading, excavation, or other ground-disturbing activities	The paleontological monitor shall be on site for all ground altering activities and shall advise LAUSD as to necessary means of protecting potentially significant paleontological resources, including, but not limited to, possible cessation of construction activities in the immediate area of a find. If resources are identified during the monitoring program, the paleontologist shall be afforded the necessary time and funds to recover, analyze, and curate the find(s). Subsequently, the monitor shall remain on site for the duration of the ground disturbances to insure the protection of any other resources that may be in the area.	2004 New Construction Program EIR Mitigation Measure C-1.11, adopted by the Board of Education on June 2004.	Design Builder	_____ Signature Title: Date:
GEOLOGY and SOILS								
<input checked="" type="checkbox"/>	SC-GEO-1	Seismic Hazards	Requires grading, excavation, or other ground-disturbing activities	During project design, and project construction (Planning & Construction)	OEHS CEQA Specification Manual, Appendix G, Supplemental Geohazard Assessment Scope of Work. This document outlines the procedures and scope for LAUSD geohazard assessments.	LAUSD OEHS CEQA Specification Manual, Appendix G, Supplemental Geohazard Assessment Scope of Work. December 2005, Revised June 2007.	Design Builder	_____ Signature Title: Date:
GREENHOUSE GAS EMISSIONS								
<input checked="" type="checkbox"/>	SC-USS-1	Construction Waste Management	Generate construction and/or demolition debris	Prior to start and during construction (Construction)	School Design Guide. Construction and demolition waste shall be recycled to the maximum extent feasible. LAUSD has established a minimum non-hazardous construction and demolition debris recycling requirement of 75% by weight as defined in Specification 01340, Construction & Demolition Waste Management. Guide Specifications 2004 - Section 01340, Construction & Demolition Waste Management. This section of the LAUSD Specifications includes procedures for preparation and implementation, including reporting and documentation, of a Waste Management Plan for reusing, recycling, salvage or disposal of non-hazardous waste materials generated during demolition and/or new construction (Construction & Demolition (C&D) Waste), to foster material recovery and re-use and to minimize disposal in landfills. Requires the collection and separation of all C&D waste materials generated on-site, reuse or recycling on-site, transportation to approved recyclers or reuse organizations, or transportation to legally designated landfills, for the purpose of recycling salvaging and/or reusing a minimum of 75% of the C&D waste generated.	<ul style="list-style-type: none"> • School Design Guide. Current Version; • Specification 01340, Construction & Demolition Waste Management, July 7, 2003; • LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR; • Guide Specifications 2004. Division 1. Section 01340, Construction & Demolition Waste Management. July 7, 2003; The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III--Criteria. Version 1.0, November 1, 2001. Adopted by the Board of	Design Builder	_____ Signature Title: Date:

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						Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. Prerequisite. Construction Waste Management. ME2.0C.P1 and LAUSD 2014 School Design Guide.		
<input checked="" type="checkbox"/>	SC-GHG-1	Water Use and Efficiency	Requires work on water pumps, valves, piping, and/or tanks	During school operation (Post-Construction)	During school operation, LAUSD shall perform regular preventative maintenance on pumps, valves, piping, and tanks to minimize water loss.	LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR	LAUSD M&O	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-GHG-2	Water Use and Efficiency	Requires work on landscape irrigation system	Prior to full operation of irrigation system (Post-Construction)	LAUSD shall utilize automatic sprinklers set to irrigate landscaping during the early morning hours to reduce water loss from evaporation.	LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR	LAUSD M&O	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-GHG-3	Water Use and Efficiency	Requires work on landscape irrigation system	Prior to full operation of irrigation system (Post-Construction)	LAUSD shall reset automatic sprinkler timers to water less during cooler months and rainy season.	LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR	LAUSD M&O	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-GHG-4	Water Use and Efficiency	Requires work on landscape and/or irrigation system	Prior to full operation of irrigation system (Construction)	LAUSD shall develop a water budget for landscape (both non-recreational and recreational) and ornamental water use to conform to the local water efficient landscape ordinance. If no local ordinance is applicable, then use the landscape and ornamental budget outlined by the California Department of Water Resources.	The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III--Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. Prerequisite. Construction Waste Management. WE1.0C.P1 and LAUSD 2014 School Design Guide.	LAUSD M&O	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-GHG-5	Energy Efficiency	Building construction	Prior to occupancy (Planning & Construction)	LAUSD shall ensure that the time dependent valued energy of the proposed project design is at least 10 percent, with a goal of 20 percent less than a standard design that is in minimum compliance with the California Title 24, Part 6 energy efficiency standards that are in force at the time the project is submitted to the Division of the State Architect.	The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III--Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments.	Design Builder and LAUSD FSD and M&O	_____ Signature Title: Date:

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						Prerequisite. Energy Efficiency. EE1.0C.P1 and LAUSD 2014 School Design Guide.		
HAZARDS and HAZARDOUS MATERIALS								
<input type="checkbox"/>	SC-HAZ-1	Electro-magnetic fields	Place new classrooms or outdoor play areas near power lines or cell towers	Prior to project approval	OEHS CEQA Specification Manual, Appendix M, Criteria for School Siting in Proximity to High Voltage Power Lines. Board of Education resolutions (Effects of Non-Ionizing Radiation-2000, Wireless Telecommunication Installations-2009 and T-Mobile Cell Tower Notification and Condemnation-2009) regarding electromagnetic field (EMF) and radiofrequency exposures associated with cellular towers near schools whereby a prohibition exists regarding siting towers on school campuses.	LAUSD OEHS CEQA Specification Manual, Appendix M, Criteria for School Siting in Proximity to High Voltage Power Lines. December 2005, Revised June 2007. Board of Education resolutions: • Effects of Non-Ionizing Radiation-2000 • Wireless Telecommunication Installations-2009 • T-Mobile Cell Tower Notification and Condemnation-2009	LAUSD OEHS and FSD	_____ Signature Title: Date:
<input type="checkbox"/>	SC-HAZ-2	Pipeline Hazards	Place new classrooms or outdoor play areas near hazardous pipelines	Prior to project approval	OEHS CEQA Specification Manual, Appendix L, Pipeline Safety Hazard Analysis. This document outlines the process for evaluating safety hazards associated with underground and above-ground natural gas and hazardous liquid pipelines. The pipeline safety hazard assessment (PSHA) process determines whether potential releases of natural gas, petroleum product and crude oil from pipelines located near a school site pose a safety risk to students and staff.	LAUSD OEHS CEQA Specification Manual, Appendix L, Pipeline Safety Hazard Analysis. December 2005, Revised June 2007.	LAUSD OEHS	_____ Signature Title: Date:
<input type="checkbox"/>	SC-HAZ-3	Rail Hazards	Place new classrooms or outdoor play areas within 1,500 feet of a railroad track easement	Prior to project approval	OEHS CEQA Specification Manual, Appendix K, Rail Safety Study Protocol. This document provides a guidance protocol for conducting a Rail Safety Study (RSS). It is designed to assist in evaluating whether traffic on rail lines within a 1,500-foot radius of a school site poses an unreasonable safety hazard to students and staff at the school.	LAUSD OEHS CEQA Specification Manual, Appendix K, Rail Safety Study. December 2005, Revised June 2007.	LAUSD OEHS	_____ Signature Title: Date:
<input type="checkbox"/>	SC-AQ-1	Air Toxics Health Risk	Place new classrooms or outdoor play areas within ¼-mile of emission sources	Prior to project approval	OEHS CEQA Specification Manual, Appendix J, Air Toxics Health Risk Assessment (HRA). This document includes guidance on HRA protocols for permitted, nonpermitted, and mobile sources that might reasonably be anticipated to emit hazardous air emissions and result in potential long-term and short-term health impacts to student and staff at the school site.	LAUSD OEHS CEQA Specification Manual, Appendix J, Air Toxics Health Risk Assessment (HRA). December 2005, Revised June 2007.	LAUSD OEHS	_____ Signature Title: Date:
HYDROLOGY and WATER QUALITY								

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<input checked="" type="checkbox"/>	SC-HWQ-1	Storm Water Requirements	Land disturbance	During construction (Construction)	Stormwater Technical Manual This manual establishes design requirements and provides guidance for the cost-effective improvement of water quality in new and significantly redeveloped LAUSD school sites. These guidelines are intended to improve water quality and mitigate potential impacts to the Maximum Extent Practicable (MEP). While these guidelines meet current post-construction Standard Urban Stormwater Mitigation Plan (SUSMP) requirements. The guidelines address the mandated post-construction element of the NPDES program requirements.	Stormwater Technical Manual. Prepared for LAUSD by Geosyntec Consultants. October 2009.	Design Builder	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-HWQ-2	Storm Water Requirements	Land disturbance	During construction (Construction)	Compliance Checklist for Storm Water Requirements at Construction Sites. This checklist has requirements for compliance with the General Construction Activity Permit and is used by OEHS to evaluate permit compliance. Requirements listed include a SWPPP; BMPs for minimizing storm water pollution to be specified in a SWPPP; and monitoring storm water discharges to ensure that sedimentation of downstream waters remains within regulatory limits.	OEHS Compliance Checklist for Storm Water Requirements at Construction Sites. No Date.	Design Builder	_____ Signature Title: Date:
<input type="checkbox"/>	SC-HWQ-3	Miscellaneous Requirements	Ongoing maintenance and repair	During construction and operation (Construction & Post-Construction)	LAUSD shall implement the following programs and procedures, as applicable: <ul style="list-style-type: none"> • Environmental Training Curriculum • Hazardous Waste Management Program • Medical Waste Management Program • Environmental Compliance Inspections • Safe School Inspections • Integrated Pest Management Program • Fats Oil and Grease Management Program Solid Waste Management Program	<ul style="list-style-type: none"> • Environmental Training Curriculum • Hazardous Waste Management Program • Medical Waste Management Program • Environmental Compliance Inspections • Safe School Inspections • Integrated Pest Management Program • Fats Oil and Grease Management Program • Solid Waste Management Program 	Design Builder	_____ Signature Title: Date:
<input type="checkbox"/>	SC-HWQ-4	Flood Hazards	Site acquisition	During project design (Planning)	The analysis for new projects shall include evaluation of all possible flood hazards as determined by: (1) review of FEMA flood maps; (2) review of flood information provided by local city or county floodplain managers; (3) review of California Department of Water Resources dam safety information; and, (4) local drainage analysis by a civil engineer. The flood hazard determination shall include consideration of tsunamis and debris flow. New projects should be located outside of these hazard areas, if practical.	2004 New Construction Program EIR Mitigation Measure HWQ-5.1 , adopted by the Board of Education on June 2004.	LAUSD OEHS	_____ Signature Title: Date:
<input type="checkbox"/>	SC-HWQ-5	Flood Hazards	Site acquisition	During project design	Where placing the project outside the floodplain is impractical, the school or project structure shall be protected from flooding by containment and control of flood flows (e.g., elevating lowest floors at least one foot above the expected 100-year flood level).	2004 New Construction Program EIR Mitigation Measures, adopted by the Board of Education on June 2004. HWQ-5.2	LAUSD OEHS and FSD	_____ Signature Title:

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<input type="checkbox"/>	SC-HWQ-6	Tsunami Hazards	Place new classrooms or outdoor play areas within 0.62 mile of the coast, and less than 100 feet above mean sea level	Prior to classroom occupation	LAUSD shall evaluate tsunami hazards to determine if the project site is within a tsunami inundation zone as delineated by CalEMA or NOAA. If the project site is within a tsunami hazard zone LAUSD shall prepare and implement a tsunami awareness program and evacuation plan. This plan shall comply with the provisions of the LAUSD Emergency Operations Plan.	2004 New Construction Program EIR Mitigation Measure HWQ-5.3, adopted by the Board of Education on June 2004.	LAUSD OEHS and FSD	Date: Signature Title: Date:
<input type="checkbox"/>	SC-HWQ-7	Debris Flow	Place new classrooms or outdoor play areas in areas subject to potentially damaging debris flow	During project design	LAUSD shall consult with the Los Angeles County Department of Public Works, and/or local city officials, as appropriate, regarding the debris flow potential near the mouth of or in natural canyons and feasible mitigation measures shall be developed to reduce any potential risk. Potential debris flow hazards shall be reduced by one or more of the following: adequate building setbacks from natural slopes, construction of debris control facilities in upstream areas, monitoring and maintaining potential debris flow areas and basins. In addition, potential loss shall be minimized by establishing an evacuation plan, and elevated awareness and early warning of pending events.	2004 New Construction Program EIR Mitigation Measure HWQ-5.4, adopted by the Board of Education on June 2004.	LAUSD OEHS and FSD	Date: Signature Title: Date:
NOISE								
<input type="checkbox"/>	SC-N-1	Exterior Campus Noise	Exterior noise levels are or would be greater than 70 dBA L ₁₀ or 67 dBA L _{eq}	During project design	LAUSD shall include features such as sound walls, building configuration, and other design features in order to attenuate exterior noise levels on a school campus to less than 70 dBA L ₁₀ or 67 dBA L _{eq} .	2004 New Construction Program EIR Mitigation Measure N-1.1, adopted by the Board of Education on June 2004.	LAUSD OEHS and FSD and Design Builder	Date: Signature Title: Date:
<input type="checkbox"/>	SC-N-2	Interior Classroom Noise	Interior classroom noise levels would be greater than 55 dBA L ₁₀ or 45 dBA L _{eq}	During project design	LAUSD shall analyze the acoustical environment of the site (such as traffic) and the characteristics of planned building components (such as heating, ventilation, and air conditioning [HVAC]), and design to achieve interior classroom noise levels of less than 55 dBA L ₁₀ or 45 dBA L _{eq} with maximum (unoccupied) reverberation times of 0.6 seconds. Noise reduction methods shall include, but are not limited to, sound walls, building and/or classroom insulation, HVAC modifications, double-paned windows, and other design features in order to achieve the noise standards. <ul style="list-style-type: none"> • The District should acknowledge the ANSI (American National Standards Institute) S12 standard as a District goal that may presently not be achievable in all cases. • Where economically feasible, new school design should achieve classroom acoustical quality consistent with the ANSI standard and in no event exceed the current CHPS (California High Performance Schools) standard of 45 dBA. • Where economically feasible, new HVAC (Heating, Ventilating, and Air Conditioning) installations should be designed to achieve the lowest possible noise level consistent with the ANSI standard. In no event should these installations exceed the current CHPS standard of 45 dBA. 	2004 New Construction Program EIR Mitigation Measure N-1.2, adopted by the Board of Education on June 2004.	LAUSD OEHS and FSD and Design Builder	Date: Signature Title: Date:

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					<ul style="list-style-type: none"> To promote the development of lower noise emitting HVAC units, the District's purchase of new units should give preference to manufacturers producing the lowest noise level at the lowest cost. Existing HVAC units operating in excess of 50 dBA should be modified. 			
<input type="checkbox"/>	SC-N-3	Traffic Noise	Project-related traffic noise level exceeds local noise standards, policies, or ordinances	Prior to project approval	LAUSD shall require an acoustical analysis to identify feasible measures to reduce traffic noise increases to 3 dBA CNEL or less at the noise-sensitive land use. LAUSD shall implement recommended measures to reduce noise.	2004 New Construction Program EIR Mitigation Measure N-2.1, adopted by the Board of Education on June 2004.	LAUSD OEHS	<hr/> Signature Title: Date:
<input type="checkbox"/>	SC-N-4	Operational Noise	Operational noise levels exceeds local noise standards, policies, or ordinances at noise-sensitive land uses	During project design and construction	LAUSD shall incorporate long-term permanent noise attenuation measures between playgrounds, stadiums, and other noise-generating facilities and noise-sensitive land uses, to reduce noise levels to meet jurisdictional standards or an increase of 3 dB or less over ambient. Operational noise attenuation measures include, but are not limited to: <ul style="list-style-type: none"> buffer zones berms sound barriers: <ul style="list-style-type: none"> buildings masonry walls enclosed bleacher foot wells other site-specific project design features. 	2004 New Construction Program EIR Mitigation Measure N-2.2, adopted by the Board of Education on June 2004.	Design Builder	<hr/> Signature Title: Date:
<input checked="" type="checkbox"/>	SC-N-5	Construction Noise and Vibration (Annoyance)	Construction on an existing school campus	Prior to construction	LAUSD Facilities Division or its construction contractor shall consult and coordinate with the school principal or site administrator, and other nearby noise sensitive land uses prior to construction to schedule high noise or vibration producing activities to minimize disruption. Coordination between the school, nearby land uses and the construction contractor shall continue on an as-needed basis throughout the construction phase of the project to reduce school and other noise sensitive land use disruptions.	2004 New Construction Program EIR Mitigation Measure N-3.1, adopted by the Board of Education on June 2004.	Design Builder	<hr/> Signature Title: Date:
<input checked="" type="checkbox"/>	SC-N-6	Vibration (Structural Damage)	Rock blasting or demolition activities	During construction	The LAUSD shall require the construction contractor to minimize blasting for all construction and demolition activities, where feasible. If demolition is necessary adjacent to residential uses or fragile structures, the LAUSD shall require the construction contractor to avoid using impact tools. Alternatives that shall be considered include mechanical methods using hydraulic crushers or deconstruction techniques.	2004 New Construction Program EIR Mitigation Measure N-5.1, adopted by the Board of Education on June 2004.	Design Builder	<hr/> Signature Title: Date:
<input checked="" type="checkbox"/>	SC-N-7	Vibration (Structural Damage)	Pile driving or heavy vibration activities	During construction (Construction)	For projects where pile driving activities are required within 150 feet of a structure, a detailed vibration assessment shall be provided by an acoustical engineer to analyze potential impacts related to vibration to nearby structures and to determine feasible mitigation measures to eliminate potential risk of architectural damage.	none		<hr/> Signature Title: Date:

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<input checked="" type="checkbox"/>	SC-N-8	Vibration (Structural Damage)	Vibration intensive activities are planned within 25 feet of a historic building or structure	Prior to and during demolition and construction (Construction)	<p>LAUSD shall meet with the construction contractor to discuss alternative methods of demolition and construction for activities within 25 feet of a historic building to reduce vibration impacts. During the preconstruction meeting, the construction contractor shall identify demolition methods not involving vibration-intensive construction equipment or activities. For example: sawing into sections that can be loaded onto trucks results in lower vibration levels than demolition by hydraulic hammers.</p> <ul style="list-style-type: none"> • Prior to construction activities, the construction contractor shall inspect and report on the current foundation and structural condition of the historic building. • The construction contractor shall implement alternative methods identified in the preconstruction meeting during demolition, excavation, and construction for work done within 25 feet of the historic building. • The construction contractor shall avoid use of vibratory rollers and packers adjacent to a historic building. • During demolition the construction contractor shall not phase any ground-impacting operations near a historic building to occur at the same time as any ground impacting operation associated with demolition and construction of a new building. During demolition and construction, if any vibration levels cause cosmetic or structural damage to a historic building the District shall issue "stop-work" orders to the construction contractor immediately to prevent further damage. Work shall not restart until the building is stabilized and/or preventive measures to relieve further damage to the building are implemented. 	none	Design Builder	<hr/> <p style="text-align: right;">Signature</p> <p>Title: Date:</p>
<input checked="" type="checkbox"/>	SC-N-9	Construction Noise	Exterior construction and the use of large, heavy or noisy construction equipment	During construction (Construction)	<p>LAUSD shall prepare a noise assessment. If site-specific review of a school construction project identifies potentially significant adverse construction noise impacts, then LAUSD shall implement all feasible measures to reduce below applicable noise ordinances. Exterior construction noise levels exceed local noise standards, policies, or ordinances at noise-sensitive receptors. LAUSD shall mandate that construction bid contracts include the measures identified in the noise assessment. Specific noise reduction measures include, but are not limited to, the following:</p> <p><u>Source Controls</u></p> <ul style="list-style-type: none"> • Time Constraints – prohibiting work during sensitive nighttime hours • Scheduling – performing noisy work during less sensitive time periods (on operating campus: delay the loudest noise generation until class instruction at the nearest classrooms has ended; residential: only between 7:00 AM and 7:00 PM) • Equipment Restrictions – restricting the type of equipment used • Noise Restrictions – specifying stringent noise limits • Substitute Methods – using quieter methods and/or equipment • Exhaust Mufflers – ensuring equipment have quality mufflers installed • Lubrication & Maintenance – well maintained equipment is quieter • Reduced Power Operation – use only necessary size and power 	LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR.	Design Builder	<hr/> <p style="text-align: right;">Signature</p> <p>Title: Date:</p>

Standard Conditions of Approval

Apply if Checked	Reference #	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions	Original Source	Responsible Implementing Party	Signature of Responsible Party (OEHS)
					<ul style="list-style-type: none"> • Limit Equipment On-Site – only have necessary equipment on-site • Noise Compliance Monitoring – technician on site to ensure compliance • Quieter Backup Alarms – manually-adjustable or ambient sensitive types <p><u>Path Controls</u></p> <ul style="list-style-type: none"> • Noise Barriers – semi-permanent or portable wooden or concrete barriers • Noise Curtains – flexible intervening curtain systems hung from supports • Enclosures – encasing localized and stationary noise sources • Increased Distance – perform noisy activities farther away from receptors, including operation of portable equipment, storage and maintenance of equipment <p><u>Receptor Controls</u></p> <ul style="list-style-type: none"> • Window Treatments – reinforcing the building's noise reduction ability • Community Participation – open dialog to involve affected residents • Noise Complaint Process – ability to log and respond to noise complaints. <p>Advance notice of the start of construction shall be delivered to all noise sensitive receptors adjacent to the project area. The notice shall state specifically where and when construction activities will occur, and provide contact information for filing noise complaints with the contractor and the District. In the event of noise complaints the LAUSD shall monitor noise from the construction activity to ensure that construction noise does not exceed limits specified in the noise ordinance.</p> <ul style="list-style-type: none"> • Temporary Relocation – in extreme otherwise unmitigatable cases. Temporarily move residents or students to facilities away from the construction activity. 			
PEDESTRIAN SAFETY								
<input type="checkbox"/>	SC-PED-1	Pedestrian Safety Analysis	Increase student capacity by more than 25% or 10 classrooms	During project design	<p>Caltrans SRTS program.</p> <p>LAUSD is a participant in the SRTS program administered by Caltrans and local law enforcement and transportation agencies. OEHS provides pedestrian safety evaluations as a component of traffic studies conducted for new school projects. This pedestrian safety evaluation includes a determination of whether adequate walkways and sidewalks are provided along the perimeter of, across from, and adjacent to a proposed school site and along the paths of identified pedestrian routes within a 0.25-mile radius of a proposed school site. The purpose of this review is to ensure that pedestrians are adequately separated from vehicular traffic.</p>	OEHS pedestrian safety evaluation	LAUSD OEHS	<p>_____</p> <p>Signature</p> <p>Title:</p> <p>Date:</p>
<input type="checkbox"/>	SC-PED-2	Pedestrian Safety Analysis	Increase student capacity by more than 25% or 10 classrooms	During project design	<p>OEHS CEQA Specification Manual, Appendix C, Traffic and Pedestrian Safety Requirements</p> <p>LAUSD has developed these performance guidelines to minimize potential pedestrian safety risks to students, faculty and staff, and visitors at LAUSD schools. The performance guidelines include the requirements for: student drop-off areas, vehicle access, and pedestrian routes to school. Appendix C states school traffic studies shall identify measures to ensure separation between pedestrians and vehicles along potential pedestrian routes, such as sidewalks, crosswalks, bike</p>	LAUSD OEHS CEQA Specification Manual, Appendix C, Traffic and Pedestrian Safety Requirements for New Schools. December 2005, Revised June 2007.	LAUSD OEHS	<p>_____</p> <p>Signature</p> <p>Title:</p> <p>Date:</p>

Standard Conditions of Approval

Apply if Checked	Reference #	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions	Original Source	Responsible Implementing Party	Signature of Responsible Party (OEHS)
					paths, crossing guards, pedestrian and traffic signals, stop signs, warning signs, and other pedestrian access measures.			
<input type="checkbox"/>	SC-PED-3	Pedestrian Safety Analysis	Increase student capacity by more than 25% or 10 classrooms	During project design	<p>OEHS CEQA Specification Manual, Appendix D, Sidewalk Requirements for New Schools</p> <p>LAUSD shall coordinate with the responsible traffic jurisdiction/agency to ensure these areas are improved prior to the opening of a school. Improvements shall include, but are not limited to:</p> <ul style="list-style-type: none"> • Clearly designate passenger loading areas with the use of signage, painted curbs, etc. • Install new walkway and/or sidewalk segments where none exist. • Any substandard walkway/sidewalk segments shall be improved to a minimum of eight feet wide. • Provide other alternative measures that separate foot traffic from vehicular traffic, such as distinct travel pathways or barricades. 	LAUSD OEHS CEQA Specification Manual, Appendix D, Sidewalk Requirements for New Schools. December 2005, Revised June 2007.	LAUSD OEHS	<p>_____</p> <p>Signature</p> <p>Title:</p> <p>Date:</p>
<input checked="" type="checkbox"/>	SC-PED-4	Pedestrian Safety Analysis	Increase student capacity by more than 25% or 10 classrooms	Prior to project approval	<p>School Traffic Safety Reference Guide REF- 4492.1.</p> <p>This Reference Guide replaces Reference Guide 4492.0, School Traffic Safety, September 30, 2008. Updated information is provided, including new guidance on passenger loading zones and the Safety Valet Program. Guide sets forth requirements for traffic and pedestrian safety, and procedures for school principals to request assistance from OEHS, the Los Angeles Schools Police Department (LASPD), or the local police department regarding traffic and pedestrian safety. Distribution and posting of the Back to School Safety Tips flyer is required. This guide also includes procedures for traffic surveys, parking restrictions, crosswalks, advance warning signs (school zone), school parking signage, traffic controls, crossing guards, or for determinations on whether vehicle enforcement is required to ensure the safety of students and staff.</p>	LAUSD Traffic Safety Reference Guide. REF-4492.1. July 23, 2012	LAUSD OEHS	<p>_____</p> <p>Signature</p> <p>Title:</p> <p>Date:</p>
<input checked="" type="checkbox"/>	SC-PED-5	Safe Access to School	Construct bus loading area, student drop-off/pick-up area and/or parking	During project design (Planning)	<p>School Design Guide.</p> <p>The Guide states student drop-off and pick-up, bus loading areas, and parking areas shall be separated to allow students to enter and exit the school grounds safely.</p>	LAUSD School Design Guide. Los Angeles Unified School District. Current Version.	Design Builder	<p>_____</p> <p>Signature</p> <p>Title:</p> <p>Date:</p>
<input type="checkbox"/>	SC-T-3	Traffic Analysis	Increase student capacity by more than 25% or 10 classrooms and/or generate additional traffic or shifts traffic patterns	Prior to project approval	<p>Coordinate with the local City or County jurisdiction and agree on the following:</p> <ul style="list-style-type: none"> • Compliance with the jurisdiction's design guidelines for access, parking, and circulation in the vicinity of the project. • Scope of analysis and methodology for the traffic and pedestrian study, including trip generation rates, trip distribution, number and location of intersections to be studied, and traffic impact thresholds. • Implementation of SRTS, traffic control and pedestrian safety devices. 	none	LAUSD OEHS	<p>_____</p> <p>Signature</p> <p>Title:</p> <p>Date:</p>

Standard Conditions of Approval

Apply if Checked	Reference #	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions	Original Source	Responsible Implementing Party	Signature of Responsible Party (OEHS)
					<ul style="list-style-type: none"> Fair share contribution and/or other mitigation measures for potential traffic impacts. Traffic and pedestrian safety impact studies shall address local traffic and congestion during morning arrival times, and before and after evening stadium events. Traffic study will use the latest version of Institute of Transportation Engineer's (ITE) Trip Generation manual to determine trip generation rates (parent vehicles, school buses, staff/faculty vehicles, and delivery vehicles) based on the size of the school facility and the specific school type (e.g., Magnet, Charter, etc.), unless otherwise required by local jurisdiction. Loading zones will be analyzed to determine the adequacy as pick-up and drop-off points. Recommendations will be developed in consultation with the local jurisdiction for curb loading bays or curb parking restrictions to accommodate loading needs and will control double parking and across-the-street loading. 			
<input checked="" type="checkbox"/>	SC-T-4	Construction Traffic	Construction equipment to use public roadways	Prior to construction (Construction)	LAUSD shall require its contractors to submit a construction worksite traffic control plan to the LADOT for review prior to construction. The plan will show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. As required by Caltrans, applicable transportation related safety measures shall be implemented during construction.	none	Design Builder	<hr/> Signature Title: Date:
POPULATION and HOUSING								
<input type="checkbox"/>	SC-PH-1	Property Displacement	Residential or business property acquisition	Prior to construction	Relocation Assistance Advisory Program LAUSD shall conform to all residential and business displacement guidelines presented in the LAUSD's Relocation Assistance Advisory Program which complies with all items identified in the California State Relocation Assistance and Real Property Acquisition Guidelines (California Code of Regulations Title 25, Division 1, Chapter 6).	LAUSD's Relocation Assistance Advisory Program	LAUSD Real Estate and Asset Management	<hr/> Signature Title: Date:
PUBLIC SERVICES								
<input checked="" type="checkbox"/>	SC-PS-1	Emergency Protection Services	New building, new school, change in campus traffic circulation	Prior to construction (Planning & Construction)	LAUSD shall: 1) have local fire and police jurisdictions review all construction and site plans prior to the State Fire Marshall's final approval; and 2) provide a full site plan for the local review, including all buildings, both existing and proposed, fences, drive gates, retaining walls, and other construction affecting emergency vehicle access, with unobstructed fire lanes for access indicated.	LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR.	LAUSD OEHS and FSD and Design Builder	<hr/> Signature Title: Date:
<input type="checkbox"/>	SC-PS-2	Emergency Preparedness & Response	Practice on a standard schedule during school operation & during emergencies or disaster situations	During school operation (Post-Construction)	LAUSD shall implement emergency preparedness and response procedures in all schools as required in LAUSD References, Bulletins, Safety Notes, and Emergency Preparedness Plans.	<ul style="list-style-type: none"> REF-5803.2 - Emergency Drills and Procedures, August 26, 2013 SAF:30 - Emergency Response Protocol for LASUD Exiting Facilities, March 2, 2007 	LAUSD, OEHS, FSD, M&O and Administration	<hr/> Signature Title:

Standard Conditions of Approval

Apply if Checked	Reference #	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions	Original Source	Responsible Implementing Party	Signature of Responsible Party (OEHS)
						<ul style="list-style-type: none"> • Emergency Operations Plan, updated April 2010 • BUL-6084.0 - Use of School Facilities in an Emergency or Disaster Situation, June 11, 2013 • REF-5511.2 - Safe School Plans Update for 2013-2014, August 15, 2013 • BUL-5433.1 - District Emergency Response and Preparedness, March 8, 2013 • REF-5451.1 - School Site Emergency/Disaster Supplies, April 12, 2013 • REF 5741.0 - Emergency Response – Communications and Response Actions, April 23, 2012 • Other LAUSD Emergency Preparedness Plans include earthquakes, bio-terrorism, heavy rain and flooding, disturbances/demonstrations, school safety, West Nile virus precautions, procedures for reentry and cleanup of fire damaged building, disposal procedures for hazardous waste and universal waste. 		Date:
TRANSPORTATION and TRAFFIC								
<input type="checkbox"/>	SC-T-1	Traffic Analysis	Increase student capacity by more than 25% or 10 classrooms and additional traffic	Prior to project approval	OEHS CEQA Specification Manual, Appendix C, Traffic and Pedestrian Safety Requirements for New Schools. Requirements identifies performance requirements for the selection and design of school sites to minimize potential pedestrian safety risks: <ul style="list-style-type: none"> • Site Selection • Bus and Passenger Loading Areas • Vehicle Access • Pedestrian Routes to School 	LAUSD OEHS CEQA Specification Manual, Appendix C, Traffic and Pedestrian Safety Requirements for New Schools. December 2005, Revised June 2007.	LAUSD OEHS	_____ Signature Title: Date:

Standard Conditions of Approval

Apply if Checked	Reference #	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions	Original Source	Responsible Implementing Party	Signature of Responsible Party (OEHS)
					Requirements also state school traffic studies shall identify measures to ensure separation between pedestrians and vehicles along potential pedestrian routes, such as sidewalks, crosswalks, bike paths, crossing guards, pedestrian and traffic signals, stop signs, warning signs, and other pedestrian access measures.			
<input checked="" type="checkbox"/>	SC-T-2	Vehicular Access and Parking	Construction of parking, and/or vehicular or pedestrian access	During project design	<p>School Design Guide. Vehicular access and parking shall comply with Section 2.3, Vehicular Access and Parking of the School Design Guide, January 2014 (and/or Current Version). The Design Guide contains the following regulations related to traffic:</p> <ul style="list-style-type: none"> • Parking Space Requirements • General Parking Guidelines • Vehicular Access and Pedestrian Safety • Parking Structure Security 	School Design Guide. Los Angeles Unified School District. Current Version.	Design Builder	<hr/> Signature Title: Date:
<input type="checkbox"/>	SC-T-3	Traffic Analysis	Increase student capacity by more than 25% or 10 classrooms and/or generates additional traffic or shifts traffic patterns	Prior to project approval	Coordinate with the local City or County jurisdiction and agree on the following: <ul style="list-style-type: none"> • Compliance with the jurisdiction's design guidelines for access, parking, and circulation in the vicinity of the project. • Scope of analysis and methodology for the traffic and pedestrian study, including trip generation rates, trip distribution, number and location of intersections to be studied, and traffic impact thresholds. • Implementation of SR2S, traffic control and pedestrian safety devices. • Fair share contribution and/or other mitigation measures for potential traffic impacts. • Traffic and pedestrian safety impact studies shall address local traffic and congestion during morning arrival times, and before and after evening stadium events. • Traffic study will use the latest version of Institute of Transportation Engineer's (ITE) Trip Generation manual to determine trip generation rates (parent vehicles, school buses, staff/faculty vehicles, and delivery vehicles) based on the size of the school facility, unless otherwise required by local jurisdiction. • Loading zones will be analyzed to determine the adequacy as pick-up and drop-off points. Recommendations will be developed in consultation with the local jurisdiction for curb loading bays or curb parking restrictions to accommodate loading needs and will control double parking and across-the-street loading. 	none	LAUSD OEHS	<hr/> Signature Title: Date:
<input checked="" type="checkbox"/>	SC-T-4	Construction Traffic	Large construction equipment required to use public roadways	Prior to construction (Construction)	LAUSD shall require its contractors to submit a construction worksite traffic control plan to the local City or County jurisdiction for review prior to construction. The plan shall show the location of any haul routes, hours of operation, protective devices, warning signs, and access to abutting properties. LAUSD shall encourage its contractor to limit construction-related trucks to off-peak commute periods. As required by Caltrans, applicable transportation related safety measures shall be implemented during construction.	none	Design Builder	<hr/> Signature Title: Date:

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<input type="checkbox"/>	SC-AQ-5	Traffic Reduction	Increase student capacity by more than 25% or 10 classrooms and additional traffic	During school operation	LAUSD shall encourage ride-sharing programs for students and teachers as well as maintain fleet vehicles such as school buses, maintenance vehicles, and other service fleet vehicles in good condition in order to prevent significant increases in air pollutant emissions created by operation of a new school.	LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR.	LAUSD OEHS and FSD and School Administration	_____ Signature Title: Date:
TRIBAL CULTURAL RESOURCES								
<input checked="" type="checkbox"/>	SC-TCR-1	Native American Resource	Evidence of Native American resources is uncovered	During grading, excavation, or other ground-disturbing activities (Construction)	All work shall stop within a 30-foot radius of the discovery. Work shall not continue until the discovery has been evaluated by a qualified archaeologist and the local Native American representative has been contacted and consulted to assist in the accurate recordation and recovery of the resources.	none	Design Builder	_____ Signature Title: Date:
UTILITIES and SERVICE SYSTEMS								
<input checked="" type="checkbox"/>	SC-USS-1	Solid Waste (construction)	Generate construction and/or demolition debris	Prior to start and during construction (Construction)	<p>School Design Guide. Construction and demolition waste shall be recycled to the maximum extent feasible. LAUSD has established a minimum non-hazardous construction and demolition debris recycling requirement of 75% by weight as defined in Specification 01340, Construction & Demolition Waste Management.</p> <p>Guide Specifications 2004 - Section 01340, Construction & Demolition Waste Management. This section of the LAUSD Specifications includes procedures for preparation and implementation, including reporting and documentation, of a Waste Management Plan for reusing, recycling, salvage or disposal of non-hazardous waste materials generated during demolition and/or new construction (Construction & Demolition (C&D) Waste), to foster material recovery and re-use and to minimize disposal in landfills. Requires the collection and separation of all C&D waste materials generated on-site, reuse or recycling on-site, transportation to approved recyclers or reuse organizations, or transportation to legally designated landfills, for the purpose of recycling salvaging and/or reusing a minimum of 75% of the C&D waste generated.</p>	<ul style="list-style-type: none"> • School Design Guide. Current Version; • Specification 01340, Construction & Demolition Waste Management, July 7, 2003; • LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR; • The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III--Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. Prerequisite. Construction Waste Management. ME2.0C.P1 and LAUSD 2014 School Design Guide. 	Design Builder	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-USS-2	Water Supply	Excavation near water lines	During construction	LAUSD shall coordinate with the City of Los Angeles Department of Water and Power or other appropriate jurisdiction and department prior to the relocation or upgrade of any water facilities to reduce the potential for disruptions in service.	LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR.	LAUSD FSD and M&O	_____ Signature Title: Date:

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<input type="checkbox"/>	SC-USS-3	Solid Waste (operation)	New school or new school construction on existing campus	During operation	Provide easily accessible area serving the entire school that are dedicated to the collection and storage of materials for recycling including (at a minimum) paper, cardboard, glass, plastics, metals and landscaping waste. There shall be at least one centralized collection point (loading dock), and ability for separation of recyclables where waste is disposed of for classrooms and common areas such as cafeteria's, gyms or multi-purpose rooms.	The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III--Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. Prerequisite. Storage and Collection of Recyclables. ME1.0.P2	LAUSD OEHS and M&O	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-GHG-1	Water Use and Efficiency	Work on water pumps, valves, piping, and/or tanks	During school operation (Post-Construction)	During school operation, LAUSD shall perform regular preventative maintenance on pumps, valves, piping, and tanks to minimize water loss.	LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR	LAUSD M&O	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-GHG-2	Water Use and Efficiency	Requires work on landscape irrigation system	Prior to full operation of irrigation system (Post-Construction)	LAUSD shall utilize automatic sprinklers set to irrigate landscaping during the early morning hours to reduce water loss from evaporation.	LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR	LAUSD M&O	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-GHG-3	Water Use and Efficiency	Requires work on landscape irrigation system	Prior to full operation of irrigation system (Post-Construction)	LAUSD shall reset automatic sprinkler timers to water less during cooler months and rainy season.	LAUSD Best Management Practices, adopted by the Board of Education on June 2004 as part of the 2004 Program EIR	LAUSD M&O	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-GHG-4	Water Use and Efficiency	Work on landscape and/or irrigation system.	Prior to full operation of irrigation system (Construction)	LAUSD shall develop a water budget for landscape (both non-recreational and recreational) and ornamental water use to conform to the local water efficient landscape ordinance. If no local ordinance is applicable, then use the landscape and ornamental budget outlined by the California Department of Water Resources.	The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Vol. III--Criteria. Version 1.0, November 1, 2001. Adopted by the Board of Ed. on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. Prerequisite. Construction Waste Management. WE1.0C.P1 and LAUSD 2014 School Design Guide.	LAUSD M&O	_____ Signature Title: Date:
<input checked="" type="checkbox"/>	SC-GHG-5	Energy Efficiency	Building construction	Prior to occupancy (Planning & Construction)	LAUSD shall ensure that the time dependent valued energy of the proposed project design is at least 10 percent, with a goal of 20 percent less than a standard design that is in minimum compliance with the California Title 24, Part 6 energy efficiency	The Collaborative for High Performance Schools. High Performance Schools Best Practices Manual, Volume III--Criteria. Version 1.0, November 1,	Design Builder and LAUSD FSD and M&O	

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Apply if Checked	Reference #	Topic	Trigger for Compliance	Implementation Phase	Standard Conditions	Original Source	Responsible Implementing Party	Signature of Responsible Party (OEHS)
					standards that are in force at the time the project is submitted to the Division of the State Architect.	2001. Adopted by the Board of Education on October 28, 2003. Updated 2009 CHPS Scorecard with 2011 Amendments. Prerequisite. Energy Efficiency. EE1.0C.P1 and LAUSD 2014 School Design Guide.		<div style="text-align: center;"> <hr style="width: 100%;"/> Signature </div> Title: Date:

APPENDIX L

Cleveland HS Response to Comments

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INTRODUCTION

The Los Angeles Unified School District (“LAUSD”) is proposing the Grover Cleveland Charter High School Comprehensive Modernization Project (proposed Project). The proposed Project involves demolition, repurposing, new construction, cosmetic upgrades, and site improvements to the existing campus, including the removal of aged and deteriorated utility lines and relocation of existing storage units and hardscape.

The demolished school buildings will be replaced by seven new buildings. The new buildings are comprised of the following: Building A (a two-story General Classroom Building); Building B (a three-story General and Science Classroom Building); Building C (a one-story Food Service Building); Building D (a one-story Performing Arts Center and Student Store); Building E (Maintenance and Operations Building), Building F (Community Day Care), and Building G (Transportation Building). Also included in this proposed Project are: site utilities infrastructure upgrades; new asphalt paving for physical education play courts; parking; landscape and hardscape areas; pedestrian/energy service road rerouted to join Wilbur Avenue and Cantara Street (private); and conversion of a portion of the old service road into a pedestrian spine. In addition, the existing buildings will require different levels of modernization, including exterior repainting, programmatic access, and complete interior remodeling.

The purpose of this document is to summarize the public comments received on the Draft Initial Study/Negative Declaration (IS/ND). Public notification of the Draft IS/ND was sent to affected public agencies, stakeholders, and residents and properties within a 0.25-mile radius of the Project site. Though this document is not required by the California Environmental Quality Act (CEQA), the LAUSD has provided these responses to comments for further disclosure of the proposed Project.

PUBLIC AND AGENCY REVIEW PROCESS

The following discussion summarizes the public involvement actions associated with public circulation of the Draft IS/ND for the proposed Project.

Public Meeting

One public meeting was held at Grover Cleveland Charter High School on Wednesday, September 13, 2017 from 6 p.m. to 7:30 p.m. This meeting was held to present the proposed Project's background and purpose, and the environmental analysis and findings. This event also provided an opportunity for the public to watch a presentation of the proposed Project and for LAUSD to address questions from the public. Over twenty people were in attendance of this meeting. Meeting notices were sent to the families/guardians of Cleveland Charter High School students and to the residents and property owners within a 0.25-mile radius of the Project site. A Spanish-speaking interpreter and translation headsets were available to meeting attendees. English and Spanish versions of the meeting notice are provided in Attachment A and the meeting agenda is provided in Attachment B.

Public Circulation

Public circulation of the Notice of Intent (NOI) and the Draft IS/ND included a 30-day review period, starting on September 8, 2017 and ending on October 8, 2017. English and Spanish versions of the NOI are provided in Attachment C. The Draft IS/ND was also available for public review and comment on the LAUSD Office of Environmental Health and Safety (OEHS) Website: <http://achieve.lausd.net/OEHS>. Hard copies of the NOI were sent via U.S. postal mail to residents and property owners within 0.25-mile radius of the school site, as well as families and guardians of the school's students.

Hard copies of the Draft IS/ND were available at the following public locations:

1. Cleveland Charter High School, 8140 Vanalden Avenue, Reseda, CA 91335
2. LAUSD Office of Environmental Health and Safety, 333 South Beaudry Avenue, Los Angeles, CA 90017
3. LAUSD Educational Service Center – northwest: 6621 Balboa Boulevard, Van Nuys, CA 91406
4. West Valley Regional Branch Library: 19036 Vanowen St., Reseda, CA 91335

Newspaper Public Notices

Legal advertisements for public circulation of the Draft IS/ND were posted in two newspaper periodicals: Los Angeles Daily News and La Opinion for the Spanish-speaking circulation. Both newspapers posted the public notice on Friday, September 8, 2017. Proof of publications with these two news periodicals are provided in Attachment D.

RESPONSE TO PUBLIC COMMENTS

During this public circulation period, LAUSD received a total of two comments on the Draft IS/ND from agency stakeholders. These public comments were received via e-mail.

Comments received during the public review period covered the following topics and issues:

- Traffic (vehicle and pedestrian)
- Public Safety

Each public comment was individually reviewed and addressed with a formal response. Tables 1-4 summarize the public comments and the response for each comment. Scanned copies of these written public comments are provided in Attachment E.

Public Meeting Comments

No comment cards were received at the September 13, 2017 public meeting held at Grover Cleveland Charter High School.

Comments from Agencies

Comments from two public agencies were received during the public review period for the Draft Initial Study/Negative Declaration. Table 2 summarizes the comments received and the respective responses provided.

Table 2: Comments from Public Agencies

ID	Commenter Name	Comment Date	Comment	Response
A-1	Jose Ricardo Avendano City of Los Angeles Bureau of Sanitation Wastewater Engineering Services Division	09/25/2017	In order to review this application, we need to request additional information, as follows: - How many students per classroom (55 classrooms)? - Will the Multi-purpose room generate sewage? - What type of food services are included and how many seats will it have?	The student capacity for Cleveland Charter High School will not increase with the implementation of this modernization project. Classroom capacity would be designed in conformance with allowable capacity per square footage according to California Department of Education and LAUSD requirements. Yes, the Multi-Purpose Room will generate sewage, however, the proposed Project would not result in additional wastewater treatment capacity requirement above the current level. The Food Service Building will contain a kitchen, Scramble Service, cold and dry storage, and faculty and student dining areas. The school has no plans to increase enrollment beyond the current capacity. The occupancy load for the dining area has been calculated as a maximum of 230 persons.
A-2-1	Alan Lin Caltrans District 7 IGR/CEQA Branch		State policies and goals related to sustainable transportation seek to reduce the number of trips made by driving, reduce transportation-related greenhouse gas emissions, and encourage alternative modes of travel. Caltrans' Strategic Management Plan has set a target of tripling trips made by bicycling, as well as doubling trips made by walking and public transit by 2020. The Strategic Plan also seeks to achieve a 15% reduction in statewide per capita vehicle miles traveled by 2020. Statewide legislation such as AB 32 and SB 375, as well as Governor Executive Orders S-3-05 and B-16-12, further echo the need to pursue more sustainable	LAUSD is in full support of Caltrans' climate change and sustainable transportation policy goals. Caltrans' recognition of LAUSD's goals to incorporate High Performance / Sustainable design principles into modernization projects is acknowledged. The comment is introductory in nature and does not pertain to the content of the Draft IS/ND. As such, no further response is required.

Table 2: Comments from Public Agencies

ID	Commenter Name	Comment Date	Comment	Response
			<p>development and transportation patterns. These climate change and sustainable transportation policy goals can only be achieved through assistance from local agency partners such as LAUSD.</p> <p>We note that in September 2016, the LAUSD School Board adopted Resolution 025-16/17 supporting Safe Routes to School, Vision Zero, and Walk to School Day. All three of these initiatives promote active transportation and elevate pedestrian safety. The resolution language reflects a commitment to help remove barriers to walking and bicycling and offers positive re-enforcement to promote sustainable and healthy transport habits. Similarly, the Board of Education's October 2003 Resolution on Sustainability and Design of High Performance Schools directs staff to continue efforts to ensure modernization projects in the District incorporate Collaborative for High Performance Schools to the extent possible and practical. This includes enhancing student and staff health and minimizing the impact of District operations on the environment. These two resolutions, though indirectly, complement each other and can be implemented in tandem to promote more sustainable, active transportation through this school modernization project. In March 2017, LAUSD released "High Performance Strategies for Major Repair and Modernization Projects," a document intended to serve as a tool to help incorporate High Performance / Sustainable design principles into modernization projects. Among the strategies included in the document are efforts to increase tree shade, pervious paving in parking lots, and coordinating installation of bicycle parking.</p>	
A-2-2	Same	10/04/2017	<p>The project involves increasing the amount of on-site car parking. Although the existing site is deemed to have "insufficient" parking relative to designated parking spaces per classroom as defined in LAUSD Parking Standards, the project is not required to achieve this ratio as it is not a new structure. Caltrans understands the addition of car parking is intended to reduce the amount of cars double-parked on school-adjacent streets such as Vanalden Avenue. Though increasing the amount of car parking is only one means of attempting to address the issue. Other alternatives to</p>	<p>The proposed project involves the modernization of an existing school site, including improvements to on-site parking, as well as pedestrian and vehicular circulation. Current site conditions of the existing, onsite service road present potential vehicle and pedestrian conflicts. The redesign of the internal parking and campus circulation as part of the proposed project, would improve vehicular and pedestrian access and circulation.</p> <p>Existing parking located in front of the campus would remain in place. The redesign of the parking area inside the campus</p>

Table 2: Comments from Public Agencies

ID	Commenter Name	Comment Date	Comment	Response
			<p>incentivize walking, bicycling, or carpooling can and should be taken into account as they may better complement the aforementioned resolutions and State policy goals. Such measures could include promoting and celebrating Walk/Bike to School Day; providing safe, pleasant, and convenient bicycle parking that is sheltered from weather elements; or offering preferential parking to those that carpool. Further, existing research on parking suggests that increasing the supply of free car parking merely encourages and enables more trips to be made by car. As such, the project may unintentionally experience additional car trips without explicitly increasing school enrollment or capacity. Adding more car parking can encourage more site users to drive who might otherwise walk, bicycle, carpool, or take public transit.</p>	<p>would comply with the regulations contained in the LAUSD School Design Guide (January 2014), including parking requirements; general parking guidelines; vehicular access and pedestrian safety; and parking structure security.</p> <p>Increased parking availability on-campus is intended to meet existing demand and anticipated to help reduce vehicle idle times and reduce driving time while searching for available parking spaces, thereby reducing emissions.</p> <p>Students, faculty, and staff can currently travel to school using public transit routes, bicycles, and by walking. The site is located on a mature network of pedestrian facilities. LAUSD supports non-motorized alternatives for students, faculty, and staff travelling to and from their school campus. Per Standard Condition SC-AQ-5, LAUSD encourages ride-sharing programs for students and teachers, as well as riding bicycles to school.</p>
A-2-3	Same	10/04/2017	<p>Absent from the Initial Study is mention of existing or new bicycle parking to be installed, despite existing policies and initiatives aimed at promoting more sustainable design and active transportation. By investing in more parking for cars but ignoring parking for active transportation (bicycling, skateboard, scooter) the project disproportionately promotes driving above other modes. The lead agency is encouraged to also incorporate measures that can promote active transportation. This could include providing quality bicycle parking and active transportation amenities as part of the project design. For example, providing safe, pleasant, and convenient space for parking bicycles, scooters, and skateboards, then site users can be encouraged to forgo the very car travel that results in double-parking. Providing such amenities would be consistent with State level policies as well as local LAUSD initiatives. In the absence of such active transportation amenities, site users (including students, faculty and staff) may be unable, unpermitted, or discouraged from using alternate modes. As noted in the project's Traffic Study, the school campus is located "in a densely developed urban area." The site would benefit from having more users travel to and from by efficient, sustainable means such as walking and bicycling.</p>	<p>LAUSD continues to support non-motorized alternatives for students, faculty, and staff travelling to and from their school campus. Per Standard Condition SC-AQ-5, LAUSD encourages ride-sharing programs for students and teachers, as well as riding bicycles to school. As project design progresses toward plan review, LAUSD will coordinate with Cleveland Charter High School to address potential improvements to existing bicycle parking and storage for skateboards and scooters.</p>

Table 2: Comments from Public Agencies

ID	Commenter Name	Comment Date	Comment	Response
A-2-4	Same	10/04/2017	To better promote the City's long-term sustainable transportation vision, the built environment could recognize and complement transportation plans for the area. Several streets in the vicinity are designated for various bicycle infrastructure improvements in the City's Mobility Plan 2035. Vanalden Avenue, for example, is designated as a street to undergo traffic calming measures to better promote local walking and bicycling (part of a "Neighborhood Enhanced Network"), this should be acknowledged in the lead agency's environmental document. Although LAUSD has a limited role in shaping transportation habits, the design of the school (pedestrian-oriented vs automobile-oriented) and amenities it provides (greenspace, car parking, bicycle parking, etc) can influence how site users go to and from the school and this should be considered. Site design that omits or makes needs of active transportation modes secondary would be inconsistent with desired State goals of promoting sustainable transportation and reducing greenhouse gas emissions. Design elements such as providing quality and inviting amenities for active transportation are especially opportune because children are more likely to walk, bicycle, skateboard, or take other active modes than the general population.	LAUSD recognizes the importance and influence of the City of Los Angeles General Plan, including its Mobility Plan 2035, an update to the City's Transportation Element. This includes acknowledgment that Vanalden Avenue is noted as part of Neighborhood Enhanced Network (NEN) for improvements. As the City and its Department of Transportation progress further in their policy-planning and implementing the Plan's objectives and Neighborhood Enhanced Network improvements for local streets, LAUSD would support future coordination and collaboration with the City of Los Angeles to ensure Cleveland Charter High School and its community are involved in these efforts. The proposed Project is limited to the campus site and does not include off-site improvements, such as roadway improvements to the local streets, including Vanalden Avenue. Accordingly, the CEQA analysis and findings presented in the Draft Initial Study focused on existing campus conditions and potential impacts associated with the proposed Project.
A-2-5	Same	10/04/2017	If revised, the Negative Declaration should include discussion and provisions (for) both car and bicycle parking. A strategy included in LAUSD's "High Performance Strategies for Major Repair and Modernization Projects" recommends identifying a designated area for bicycle and skateboard storage and coordinating site installation with (the) school administrator. Ideally, such a discussion of car and bicycle parking would be complemented with diagrams indicating more precise location, type, and quantity of parking for both modes instead of just one.	The proposed Project would modernize existing facilities in Cleveland Charter High School and would not increase student capacity. Though these modernization improvements respond to the greatest needs of the school, LAUSD will consider the existing conditions of bicycle/scooter/skateboard storage and provide improvements as feasible and in line with LAUSD's "High Performance Strategies for Major Repair and Modernization Projects."
A-2-6	Same	10/04/2017	It is noted that campus administration and faculty have expressed concerns about the potential for conflict between motorized and non-motorized travel. In preparation of the Negative Declaration, the lead agency observed such conflicts during the school drop-off and pick-up periods. As a result, the project includes recommended project design features such as providing additional crosswalk markings on	Comment noted. LAUSD appreciates Caltrans support in its efforts to minimize conflicts between motorized and non-motorized travel at the Cleveland Charter High School campus.

Table 2: Comments from Public Agencies

ID	Commenter Name	Comment Date	Comment	Response
			Cantara Street; additional school zone striping and possible raised crosswalks. Caltrans supports endeavors to minimize potential conflicts between modes and promote more active transportation.	
A-2-7	Same	10/04/2017	Finally, as a reminder any transportation of heavy construction equipment and/or materials requiring use of oversized-transport vehicles on State highways will require a Caltrans transportation permit. Caltrans recommends that large size truck trips be limited to off-peak commute periods.	Comment noted. LAUSD and its construction contractors for the Project will coordinate with Caltrans to obtain any necessary permits.
A-2-8	Same	10/04/2017	Also, storm water run-off is a sensitive issue for Los Angeles and Ventura counties. Be mindful that the project needs to be designed to discharge clean run-off water. The completed project could incorporate green design elements that can capture storm water. Incorporating permeable pavement, landscaping, and trees to reduce urban water run-off should be considered.	Design and construction of the proposed project would not violate any water quality standards or waste discharge requirements. Standard Conditions, as part of the Program EIR, have been incorporated in the Final Initial Study/Negative Declaration and address conformance with stormwater design and construction requirements. LAUSD will ensure that all applicable storm water permits are obtained from local, regional and state agencies.


Comments from Organizations

No comments were received from organizations during the public review period.

Comments from Public Stakeholders

No comments were received from stakeholders during the public review period.

ATTACHMENT A: PUBLIC MEETING NOTICE

	<p>LOS ANGELES UNIFIED SCHOOL DISTRICT Facilities Services Division Office of Environmental Health & Safety</p> <p>Notice of</p>
<h1>CEQA PUBLIC MEETING</h1>	
<p>About the Comprehensive Modernization Project at Cleveland Charter High School</p>	
<p>The LAUSD Office of Environmental Health & Safety (OEHS) invites you to attend a California Environmental Quality Act (CEQA) Public Meeting for the Cleveland Charter High School Comprehensive Modernization Project. The purpose of this meeting is to inform and obtain input from the community on the Initial Study/Negative Declaration prepared for the proposed project.</p> <p>The Initial Study evaluates the potential effects the proposed project may have on the surrounding environment, such as noise, traffic, etc. The results of the Initial Study indicated that a Negative Declaration was the appropriate level of CEQA documentation.</p>	
<h2>Wednesday, September 13, 2017</h2> <p>6:00 p.m. – 7:30 p.m.</p> <p>Cleveland Charter High School – Multipurpose Room 8140 Vanalden Avenue, Reseda, CA 91335</p>	
<p style="text-align: center;"><u>The Initial Study/Negative Declaration can be reviewed at the following locations:</u></p> <ul style="list-style-type: none">• Cleveland Charter High School, 8140 Vanalden Ave., Reseda, CA 91335, (818) 885-2300• LAUSD Office of Environmental Health & Safety, 333 South Beaudry Ave., 21st Floor, Los Angeles, CA 90017, (213) 241-3417 (by appointment)• West Valley Regional Branch Library, 19036 Vanowen St., Reseda, CA 91335, (818) 345-9806• Local District Northwest, 6621 Balboa Blvd., Lake Balboa, CA 91406, (818) 654-3670• In addition, the Initial Study/ND is available online at the LAUSD OEHS website (http://achieve.lausd.net/CEQA) <p style="text-align: center;">For more information on the CEQA process, call CEQA Project Manager Linda Wilde at (213) 241-4821 or email at linda.wilde@lausd.net</p> <p style="text-align: center;"><i>For more information on Cleveland HS Comprehensive Modernization Project, call Fortunato Tapia of LAUSD FSD Community Relations at (213) 241-1338 or email at fortunato.tapia@lausd.net</i></p>	



LOS ANGELES UNIFIED SCHOOL DISTRICT
Facilities Services Division
Office of Environmental Health & Safety

Notificación de

REUNIÓN PÚBLICA DE CEQA

Sobre el Proyecto de Modernización Integral de
Cleveland Charter High School

La Oficina de Seguridad y Salud Ambiental (OEHS, siglas en inglés) del LAUSD le invita a asistir a la Reunión Pública de la Ley de Protección Ambiental de California (CEQA, siglas en inglés) acerca del Proyecto de Modernización Integral en Cleveland Charter High School. **El propósito de esta reunión es informar y recibir comentarios de la comunidad acerca del Estudio Inicial y Declaración Negativa preparada para el proyecto propuesto.**

El Estudio Inicial evalúa los posibles efectos que el proyecto propuesto pudiera tener en el ambiente circundante, por ejemplo, ruido, tráfico, etc. Los resultados del Estudio Inicial indicaron que la Declaración Negativa en materia ambiental está al nivel adecuado para los fines de CEQA.

Miércoles, 13 de Septiembre, 2017

6:00 p.m. – 7:30 p.m.

Cleveland Charter High School – Salón Multiusos
8140 Vanalden Avenue, Reseda, CA 91335

Los documentos del Estudio Inicial y Declaración Negativa en materia ambiental se pueden revisar en los siguientes lugares:

- Cleveland Charter High School, 8140 Vanalden Ave., Reseda, CA 91335, (818) 885-2300
- LAUSD Office of Environmental Health & Safety, 333 South Beaudry Ave., 21st Floor, Los Angeles, CA 90017, (213) 241-3417 (por cita)
- West Valley Regional Branch Library, 19036 Vanowen St., Reseda, CA 91335, (818) 345-9806
- Local District Northwest, 6621 Balboa Blvd., Lake Balboa, CA 91406, (818) 654-3670
- Además, el Estudio Inicial/ND está disponible en línea en el sitio web de OEHS del LAUSD (<http://achieve.lausd.net/CEQA>)

Para obtener más información acerca del proceso de CEQA, comuníquese con la Gerente del Proyecto CEQA, Linda Wilde al (213) 241-4821 o por correo electrónico a linda.wilde@lausd.net

Para obtener más información acerca del Proyecto de Modernización Integral en Cleveland Charter High School, comuníquese con Fortunato Tapia de LAUSD FSD Community Relations al (213) 241-1338 o por correo electrónico a fortunato.tapia@lausd.net

ATTACHMENT B: PUBLIC MEETING AGENDA



LOS ANGELES UNIFIED SCHOOL DISTRICT
Facilities Services Division - Community Relations Department

CLEVELAND CHARTER HIGH SCHOOL
CEQA PUBLIC MEETING
REGARDING THE COMPREHENSIVE MODERNIZATION PROJECT

WEDNESDAY, SEPTEMBER 13, 2017
6:00 P.M.
(MULTIPURPOSE ROOM)

- I. **Welcome & Introductions / Bienvenida y Presentaciones**
— Fortunato Tapia, FSD Community Relations

- II. **Project Overview / Descripción General del Proyecto**
— Mitra Nehorai, Senior Project Development Manager

- III. **Site Assessment Process / Proceso de Evaluación del Sitio**
— Lawrence Brown, LAUSD OEHS, Site Assessment Project Manager | CP

- IV. **California Environmental Quality Act (CEQA) Overview /
Repaso de Ley de Calidad Ambiental de California (CEQA, por sus siglas en inglés)**
— Gwenn Godek, LAUSD OEHS, CEQA Advisor | CP

- V. **Questions & Comments / Preguntas y Comentarios**

- VI. **Next Steps / Próximos Pasos**

LAUSD Facilities Services Division — Community Relations Department
Tel (213) 241-1338 • Fax (213) 241-6845 • fortunato.tapia@lausd.net

ATTACHMENT C: NOTICE OF INTENT

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

NOTICE OF INTENT to Adopt an Initial Study/Negative Declaration

DATE: September 5, 2017
TO: Agencies, Organizations, Property Owners, and Interested Parties
SUBJECT: Notice of Intent to Adopt an Initial Study/Negative Declaration

NOTICE IS HEREBY GIVEN that the Los Angeles Unified School District (LAUSD or District), as Lead Agency for the Project, has prepared a Draft Initial Study and Negative Declaration (IS/ND) for the Cleveland Charter High School Comprehensive Modernization Project, pursuant to the California Environmental Quality Act (CEQA) (Public Resources Code [PRC], Division 13, Section 21000 et seq. [CEQA Statute] and the California Code of Regulations [CCR], Title 14, Division 6, Chapter 3, Section 15000 et seq. [CEQA Guidelines]). An IS/ND is a detailed informational document that analyzes a proposed project's potentially significant environmental impacts, as well as identifying ways to minimize and mitigate such effects. The purpose of this notice is to solicit comments regarding the content of the Draft IS/ND.

PROJECT DESCRIPTION AND LOCATION: The Project is located on a portion of LAUSD's Cleveland Charter High School, located at 8140 Vanalden Avenue, Reseda, California. The proposed Project includes the removal of nine permanent and 28 portable buildings, replacing deteriorated utility lines, and relocating existing storage units and hardscape. New facilities include approximately 55 classrooms and support spaces, a multi-purpose room, food services, and a new maintenance and operation area. The proposed Project also includes some minor reconfigurations and improvements to two classroom buildings, seismic strengthening of the physical education building, and various site infrastructure and accessibility improvements. Student capacity at Cleveland Charter High School will not increase due to this project. This comprehensive modernization project will allow the specialized programs offered at Cleveland HS to better integrate with other complementary programs.

DOCUMENT AVAILABILITY: Copies of the IS/ND can be found at the following locations:

Cleveland Charter High School
8140 Vanalden Avenue
Reseda, CA 91335
Phone: (818) 885-2300

LAUSD Office of Environmental Health and Safety
333 South Beaudry Avenue
Los Angeles, CA 90017
Phone: (213) 241-3417 (by appointment)

PUBLIC REVIEW PERIOD: The public review period for the IS/ND begins on September 8, 2017 and ends on October 8, 2017. Written comments may be sent by e-mail to CEQA-comments@lausd.net or submitted to:

LAUSD Office of Environmental Health and Safety
Attn: Ms. Linda Wilde, CEQA Project Manager
333 S. Beaudry Avenue, 21st Floor
Los Angeles, CA 90017

All comments must be received by 5:00 pm on October 8, 2017.

Additional information concerning the proposed Project, including the date and time of the Board of Education meeting where this IS/ND will be considered, will be posted on the District's OEHS website: <http://achieve.lausd.net/ceqa> as available.

333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017 • Telephone (213) 241-3199 • Fax (213) 241-6816

Ensuring a safe and healthy environment for students to learn, teachers to teach, and employees to work.

Distrito Escolar Unificado de Los Ángeles

Oficina de Salud y Seguridad Ambiental

MICHELLE KING
Superintendente de Escuelas

THELMA MELÉNDEZ, PH.D.
Director Ejecutivo, Oficina de Servicios Educativos

ROBERT LAUGHTON
Director de Salud y Seguridad Ambiental

CARLOS A. TORRES
Subdirector de Salud y Seguridad Ambiental

AVISO DE INTENCIÓN Para adoptar un estudio inicial / Declaración negativa

FECHA: 5 de septiembre de 2017

PARA: Agencias, organizaciones, propietarios y partes interesadas

ASUNTO: Aviso de Intención de Adoptar un Estudio Inicial / Declaración Negativa

SE LE NOTIFICA QUE el Distrito Escolar Unificado de Los Ángeles (LAUSD o Distrito), como Agencia Líder del Proyecto, ha preparado un Estudio Inicial y Declaración Negativa (IS / ND) para el proyecto de modernización Integral de la escuela preparatoria Cleveland, conforme a la Ley de Calidad Ambiental de California (CEQA, por sus siglas en inglés) (Código de Recursos Públicos [PRC], División 13, Sección 21000 y siguientes [Estatuto CEQA] y el Código de Regulaciones de California [CCR], Título 14, División 6, Capítulo 3, Sección 15000 et Seq. [Directrices de la CEQA]). Un IS / ND es un documento informativo detallado que analiza los impactos ambientales potencialmente significativos de un proyecto propuesto, así como la identificación de formas de minimizar y mitigar tales efectos. El propósito de este aviso es solicitar comentarios sobre el contenido de este estudio.

DESCRIPCIÓN Y UBICACIÓN DEL PROYECTO: El Proyecto está ubicado en una parte de la escuela preparatoria Cleveland Charter de LAUSD, ubicada en 8140 Vanalden Avenue, Reseda, California. El proyecto propuesto incluye la eliminación de nueve edificios permanentes y 28 edificios portátiles, reemplazo de líneas de servicios públicos deterioradas, y la reubicación de unidades de almacenamiento y paisaje existente. Las nuevas instalaciones incluyen aproximadamente 55 aulas y espacios de apoyo, un salón multiusos, servicios de alimentación y una nueva área de mantenimiento y operación. El Proyecto propuesto también incluye algunas reconfiguraciones menores y mejoras a dos edificios de aula, fortalecimiento sísmico del edificio de educación física y varias mejoras en la infraestructura del sitio y la accesibilidad. La capacidad para estudiantes en Cleveland Charter High School no aumentará debido a este proyecto. Este proyecto integral de modernización permitirá a los programas especializados ofrecidos en Cleveland HS integrarse mejor con otros programas complementarios.

DISPONIBILIDAD DEL DOCUMENTO: Copias del IS / ND se pueden encontrar en los siguientes lugares:

Escuela Preparatoria Cleveland Charter
8140 Vanalden Avenue
Reseda, CA 91335
Phone: (818) 885-2300

Oficina de Salud y Seguridad Ambiental del LAUSD
333 South Beaudry Avenue
Los Angeles, CA 90017
Phone: (213) 241-3417 (by appointment)

PERIODO DE REVISIÓN PÚBLICA: El período de repaso del IS / ND por el público comienza el 8 de septiembre de 2017 y termina el 8 de octubre de 2017. Comentarios por escrito pueden ser enviados por correo electrónico a CEQA-comments@lausd.net o sometidos a:

LAUSD Office of Environmental Health and Safety
Attn: Ms. Linda Wilde, Gerente del Proyecto CEQA
333 S. Beaudry Avenue, 21st Floor
Los Angeles, CA 90017

Todos los comentarios deben ser recibidos a más tardar el 8 de octubre de 2017 a las 5:00pm.

Información adicional relacionada con el proyecto propuesto, incluyendo la fecha y hora de la reunión de la Junta Educativa donde será considerado este IS / ND, se publicará en el sitio web del OEHS del Distrito: <http://achieve.lausd.net/OEHSceqa> según esté disponible.

333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017 • Telephone (213) 241-3199 • Fax (213) 241-6816

Asegurando un ambiente seguro y saludable para que los estudiantes aprendan, los maestros enseñen y los empleados trabajen.

ATTACHMENT D: LEGAL ADVERTISEMENTS

PROOF OF PUBLICATION AFFIDAVIT
(2015.5 C.C.P.)

STATE OF CALIFORNIA,
County of Los Angeles,

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of the

Daily News

a newspaper of general circulation published 7 times weekly in the County of Los Angeles, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Los Angeles, State of California, under the date of May 26, 1983, Case Number Adjudication #C349217; that the notice, of which the annexed is a printed copy (set in type not smaller than nonpareil) has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit: September 8,

all in the year 20 17.....

I certify (or declare) under penalty of perjury that the forgoing is true and correct.

Dated at Woodland Hills,

California, this 8th day of Sept., 20 17.....

Tim Carter
Signature

Proof of Publication of
Notice of Intent to
Adopt An Initial Study/
Negative Declaration

(DAILY NEWS)
NOTICE OF INTENT
TO ADOPT AN INITIAL STUDY/NEGATIVE
DECLARATION

NOTICE IS HEREBY GIVEN that the Los Angeles Unified School District (LAUSD) as lead agency for the project, has prepared an Initial Study/Negative Declaration for the Cleveland Charter High School Comprehensive Modernization Project, pursuant to the California Environmental Quality Act (CEQA), California Public Resources Code, Division 13, Section 21000 et seq. (CEQA Statute) and the California Code of Regulations, Title 14, Division 6, Chapter 3, Section 15000 et seq. (CEQA Guidelines). An Initial Study/Negative Declaration is a detailed informational document that analyzes a proposed Project's potentially significant environmental impacts, as well as identifying ways to minimize and mitigate such impacts. Based on the Initial Study, it has been determined that the proposed Project will have no significant adverse impacts on the environment, and a Negative Declaration is warranted. The purpose of this notice is to solicit comments regarding the content of the Initial Study/Negative Declaration.

PROJECT DESCRIPTION: The LAUSD proposes campus improvements, including: (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 educational facilities requirements.

PROJECT LOCATION: Cleveland Charter High School, located at 8140 Vanalden Avenue, Reseda, CA 91335.

Public Meeting: LAUSD will hold a Public Meeting on September 13, 2017, at 6:00 pm to 7:30 pm at the Cleveland Charter High School Multi-Purpose Room. You are encouraged to attend and learn about the proposed Project, as well as provide input regarding the draft Initial Study/Negative Declaration.

Document Availability: The Draft Initial Study/Negative Declaration is available for public review on the LAUSD Office of Environmental Health and Safety (OEHS) Website: <http://achieve.lausd.net/OEHS> and at the following locations during normal business hours:

- LAUSD OEHS: 333 S. Beaudry Avenue, 21st Floor, Los Angeles, CA 90017
- LAUSD Educational Service Center - northwest: 6621 Balboa Boulevard, Van Nuys, CA 91406
- Cleveland Charter High School: 8140 Vanalden Avenue, Reseda, CA 91335
- West Valley Regional Branch Library: 19036 Vanowen St., Reseda, CA 91335

Public Review Period: The public review period for the Initial Study/Negative Declaration is 30 days, beginning on September 8, 2017 and ending on October 8, 2017. Written comments may be submitted to: LAUSD OEHS, ATTN: Linda Wilde, 333 S. Beaudry Avenue, 21st Floor, Los Angeles, CA 90017. Comments can also be sent by email to CEQA-comments@lausd.net. Please include "Cleveland HS Comp Mod Project" in the subject line. All comments must be received by 5:00 pm on October 8, 2017.

Additional information regarding this Project, including the date and time of the Board of Education meeting where this IS/ND will be considered, will be posted on the OEHS website at <http://achieve.lausd.net/OEHS>.

DATED: September 8, 2017
Publish September 8, 2017

PROOF OF PUBLICATION

(2015.5C.C.P)



915 Wilshire Blvd Ste 800, Los Angeles, CA 90017
Tel: (213)896-2260 • Fax: (213)896-2238

STATE OF CALIFORNIA

I am a citizen of the United States and a resident of the county aforesaid; I am over the age of eighteen years, and not a party to or interested in the above-entitled matter. I am the principal clerk of the printer of La Opinión a newspaper of general circulation, printed and published daily in the city of Los Angeles, county of Los Angeles, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Los Angeles, State of California, under the date of July 28, 1969, Case Number: 950176; that the notice, of which the annexed is a printed copy, has been published in each regular and not in any supplement thereof on the following dates, to wit:

September 08

all in the year 2017

I certified (or declared) under penalty of perjury that the foregoing is true and correct.

Dated at Los Angeles, California, this

13 day of September, 2017

Rosa Berumen
Signature

AVD #017 Controlled
Rev. 03/12

This space

Proof of p

ANUNCIO DE INTENCIÓN DE ADOPTAR UN ESTUDIO INICIAL/ DECLARACIÓN NEGATIVA

POR EL PRESENTE ANUNCIO SE COMUNICA que el Distrito Escolar Unificado de Los Angeles (LAUSD, por sus siglas en inglés), como agencia principal a cargo del proyecto, ha preparado un Estudio Inicial/Declaración Negativa para el Proyecto de Modernización Integral de la escuela preparatoria Cleveland Charter High School, de conformidad con la Ley de Calidad Ambiental de California (CEQA, por sus siglas en inglés), Código de Recursos Públicos de California, Fracción 13, Artículo 21000 y siguientes (Estatuto CEQA) y el Código Reglamentario de California, Título 14, Fracción 6, Capítulo 3, Artículo 15000 y siguientes (Directrices CEQA). Un Estudio Inicial/Declaración Negativa es un documento con información detallada acerca de un proyecto propuesto, que analiza las consecuencias potenciales importantes sobre el medio ambiente e identifica las maneras de reducir y mitigar dichas consecuencias. En base al Estudio Inicial, se ha determinado que al Proyecto propuesto no tendrá consecuencias adversas importantes sobre el medio ambiente y que se justifica una Declaración Negativa. El objetivo de este anuncio es solicitar comentarios con respecto al contenido del Estudio Inicial/Declaración Negativa.

DESCRIPCIÓN DEL PROYECTO: El LAUSD propone mejoras del campo escolar, que incluyen: (1) la demolición de varios edificios, (2) la construcción de nuevos edificios, (3) la actualización de instalaciones a través del campo escolar, y (4) las mejoras necesarias a fin de cumplir con los requisitos locales, estatales y federales sobre las instalaciones de uso académico.

UBICACIÓN DEL PROYECTO: Escuela preparatoria Cleveland Charter High School, ubicada en 8140 Vanalden Avenue, Reseda, CA 91335.

Reunión pública: LAUSD celebrará una reunión pública el 13 de septiembre de 2017, entre 6:00 pm y 7:30 pm, en el Salón multiusos de la escuela preparatoria Cleveland Charter High School. Le instamos a asistir para informarse con respecto al Proyecto propuesto y para brindar opiniones acerca del borrador del Estudio Inicial/Declaración Negativa.

Disponibilidad del documento: El Borrador del Estudio Inicial/Declaración Negativa está disponible para la consulta del público en el sitio web de la Oficina de Seguridad y Salud Ambiental (OEHS, por sus siglas en inglés) del LAUSD: <http://achieve.lausd.net/OEHS> y en los siguientes lugares durante el horario regular de oficina:

- LAUSD OEHS (Oficina de Seguridad y Salud Ambiental): 333 S. Beaudry Avenue, Piso 21, Los Angeles, CA 90017
- LAUSD Centro de Servicios Educativos - Noroeste: 6621 Balboa Boulevard, Lake Balboa, CA 91406
- Escuela preparatoria Cleveland Charter High School: 8140 Vanalden Avenue, Reseda, CA 91335
- Sucursal Regional de la Biblioteca West Valley: 19036 Vanowen St., Reseda, CA 91335

Periodo para consultas del público: El periodo de 30 días para las consultas del público del Estudio Inicial/Declaración Negativa empieza el 8 de septiembre de 2017 y concluye el 8 de octubre de 2017. Los comentarios por escrito se pueden enviar a: LAUSD OEHS, ATTN: Linda Wildo, 333 S. Beaudry Avenue, Piso 21, Los Angeles, CA 90017.

Los comentarios también se pueden enviar por correo electrónico a CEQA-comments@lausd.net. Por favor incluya "Cleveland HS Comp Mod Project" en la línea correspondiente al asunto.

Todos los comentarios se deben recibir a más tardar a las 5:00 pm del 8 de octubre de 2017.

Se publicará información adicional acerca de este Proyecto, incluso la fecha y hora de la reunión de la Junta Educativa donde se considerará este Estudio Inicial/Declaración Negativa, en el sitio web de la OEHS, en <http://achieve.lausd.net/OEHS>.

FECHADO: 8 de septiembre de 2017
PUBLICADO: 8 de septiembre de 2017

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ATTACHMENT E: PUBLIC COMMENTS RECEIVED

Comment Letter No. A-1
City of Los Angeles Bureau of Sanitation

From: [Ricardo Avendano](#)
To: [California Environmental Quality Act Comments](#)
Cc: [Christopher DeMonbrun](#); [Albert Lew](#)
Subject: NOTICE OF INTENT TO ADOPT AN INITIAL STUDY/NEGATIVE DECLARATION - CLEVELAND CHARTER HIGH SCHOOL
Date: Monday, September 25, 2017 2:02:15 PM

Good afternoon.

We have received your Notice of Intent to Adopt and Initial Study/Negative Declaration for the Cleveland Charter High School Comprehensive Modernization Project.

In order to review this application, we need to request additional information, as follows:

- How many students per classroom (55 classrooms)?
- Will the Multi-purpose room generate sewage?
- What type of food services are included and how many seats will it have?

We will continue with our analysis as soon as we receive the information cited above.

Thank you.

Jose Ricardo Avendano
Bureau of Sanitation
Wastewater Engineering Services Division
Office # 323-342-6227
Cell. # 626-372-4456
ricardo.avendano@lacity.org

Comment Letter No. A-2 California Department of Transportation, District 7

STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY

EDMUND G. BROWN Jr., Governor

DEPARTMENT OF TRANSPORTATION
DISTRICT 7—OFFICE OF REGIONAL PLANNING
100 S. MAIN STREET, MS 16
LOS ANGELES, CA 90012
PHONE (213) 897-0067
FAX (213) 897-1337
www.dot.ca.gov



*Serious drought.
Making Conservation
a California Way of Life.*

October 4, 2017

Ms. Linda Wilde
Los Angeles Unified School District
333 South Beaudry Avenue
Los Angeles, CA, 90017

RE: Cleveland Charter High School
Comprehensive Modernization
Vic: LA-101 / PM: 22.066
GTS# 07-LA-2017-01129
SCH# 2017091015

Dear Ms. Wilde:

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The project consists of modernization improvements to Cleveland High School. Changes include the removal of nine permanent and 28 portable buildings, replacing deteriorating utility lines, and relocating existing storage units and hardscape. New facilities include approximately 55 classrooms and support space, a multi-purpose room, food services, and a new maintenance and operation area and other various modifications. The project is designed to address critical physical needs of the buildings and grounds at the campus through building replacement renovations, modernization and reconfiguration.

Upon reviewing the Negative Declaration/Initial Study (ND/IS), Caltrans has the following comments:

State policies and goals related to sustainable transportation seek to reduce the number of trips made by driving, reduce transportation-related greenhouse gas emissions, and encourage alternative modes of travel. Caltrans' Strategic Management Plan has set a target of tripling trips made by bicycling, as well as doubling trips made by walking and public transit by 2020. The Strategic Plan also seeks to achieve a 15% reduction in statewide per capita vehicle miles traveled by 2020. Statewide legislation such as AB 32 and SB 375, as well as Governor Executive Orders S-3-05 and B-16-12, further echo the need to pursue more sustainable development and transportation patterns. These climate change and sustainable transportation policy goals can only be achieved through assistance from local agency partners such as LAUSD.

We note that in September 2016, the LAUSD School Board adopted Resolution 025-16/17 supporting Safe Routes to School, Vision Zero, and Walk to School Day. All three of these initiatives promote active transportation and elevate pedestrian safety. The resolution language reflects a commitment to help remove barriers to walking and bicycling and offers positive re-enforcement to promote sustainable and healthy transport habits. Similarly, the Board of Education's October 2003 Resolution on Sustainability and Design of High Performance Schools directs staff to continue efforts to ensure modernization projects in the District incorporate Collaborative for High Performance Schools to the extent possible and practical. This includes enhancing student and staff health and minimizing the impact of District operations on the environment. These two resolutions, though indirectly, complement each other and can be implemented in tandem to promote more sustainable, active transportation through this school modernization project. In March 2017, LAUSD released "High Performance Strategies for Major Repair and Modernization Projects," a document intended to serve as a tool to help incorporate High Performance / Sustainable design principles into

A-2-1

*"Provide a safe, sustainable, integrated and efficient transportation system
to enhance California's economy and livability"*

Ms. Linda Wilde
October 4, 2017
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modernization projects. Among the strategies included in the document are efforts to increase tree shade, pervious paving in parking lots, and coordinating installation of bicycle parking.

The project involves increasing the amount of on-site car parking. Although the existing site is deemed to have “insufficient” parking relative to designated parking spaces per classroom as defined in LAUSD Parking Standards, the project is not required to achieve this ratio as it is not a new structure. Caltrans understands the addition of car parking is intended to reduce the amount of cars double-parked on school-adjacent streets such as Vanalden Avenue. Though increasing the amount of car parking is only one means of attempting to address the issue. Other alternatives to incentivize walking, bicycling, or carpooling can and should be taken into account as they may better complement the aforementioned resolutions and State policy goals. Such measures could include promoting and celebrating Walk/Bike to School Day; providing safe, pleasant, and convenient bicycle parking that is sheltered from weather elements; or offering preferential parking to those that carpool. Further, existing research on parking suggests that increasing the supply of free car parking merely encourages and enables more trips to be made by car. As such, the project may unintentionally experience additional car trips without explicitly increasing school enrollment or capacity. Adding more car parking can encourage more site users to drive who might otherwise walk, bicycle, carpool, or take public transit.

A-2-2

Absent from the Initial Study is mention of existing or new bicycle parking to be installed, despite existing policies and initiatives aimed at promoting more sustainable design and active transportation. By investing in more parking for cars but ignoring parking for active transportation (bicycling, skateboard, scooter) the project disproportionately promotes driving above other modes. The lead agency is encouraged to also incorporate measures that can promote active transportation. This could include providing quality bicycle parking and active transportation amenities as part of the project design. For example, providing safe, pleasant, and convenient space for parking bicycles, scooters, and skateboards, then site users can be encouraged to forgo the very car travel that results in double-parking. Providing such amenities would be consistent with State level policies as well as local LAUSD initiatives. In the absence of such active transportation amenities, site users (including students, facility and staff) may be unable, unpermitted, or discouraged from using alternate modes. As noted in the project’s Traffic Study, the school campus is located “in a densely developed urban area.” The site would benefit from having more users travel to and from by efficient, sustainable means such as walking and bicycling.

A-2-3

To better promote the City’s long-term sustainable transportation vision, the built environment could recognize and complement transportation plans for the area. Several streets in the vicinity are designated for various bicycle infrastructure improvements in the City’s Mobility Plan 2035. Vanalden Avenue, for example, is designated as a street to undergo traffic calming measures to better promote local walking and bicycling (part of a “Neighborhood Enhanced Network”), this should be acknowledged in the lead agency’s environmental document. Although LAUSD has a limited role in shaping transportation habits, the design of the school (pedestrian-oriented vs automobile-oriented) and amenities it provides (greenspace, car parking, bicycle parking, etc) can influence how site users go to and from the school and this should be considered. Site design that omits or makes needs of active transportation modes secondary would be inconsistent with desired State goals of promoting sustainable transportation and reducing greenhouse gas emissions. Design elements such as providing quality and inviting amenities for active transportation are especially opportune because children are more likely to walk, bicycle, skateboard, or take other active modes than the general population.

A-2-4

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to enhance California’s economy and livability”*

Ms. Linda Wilde
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Page 3

If revised, the Negative Declaration should include discussion and provisions both car and bicycle parking. A strategy included in LAUSD's "High Performance Strategies for Major Repair and Modernization Projects" recommends identifying a designated area for bicycle and skateboard storage and coordinating site installation with school administrator. Ideally, such a discussion of car and bicycle parking would be complemented with diagrams indicating more precise location, type, and quantity of parking for both modes instead of just one.

A-2-5

It is noted that campus administration and faculty have expressed concerns about the potential for conflict between motorized and non-motorized travel. In preparation of the Negative Declaration, the lead agency observed such conflicts during the school drop-off and pick-up periods. As a result, the project includes recommended project design features such as providing additional crosswalk markings on Cantara Street; additional school zone striping and possibly raised crosswalks. Caltrans supports endeavors to minimize potential conflicts between modes and promote more active transportation.

A-2-6

Finally, as a reminder any transportation of heavy construction equipment and/or materials requiring use of oversized-transport vehicles on State highways will require a Caltrans transportation permit. Caltrans recommends that large size truck trips be limited to off-peak commute periods. Also, storm water run-off is a sensitive issue for Los Angeles and Ventura counties. Be mindful that the project needs to be designed to discharge clean run-off water. The completed project could incorporate green design elements that can capture storm water. Incorporating permeable pavement, landscaping, and trees to reduce urban water run-off should be considered.

A-2-7

A-2-8

If you have any questions regarding these comments, please contact project coordinator Severin Martinez, at (213)-897-0067 or severin.martinez@dot.ca.gov and refer to GTS# LA-2017-01129.

Sincerely,



ALAN LIN
Acting IGR/CEQA Branch Chief

cc: Scott Morgan, State Clearinghouse

