November 2019|Initial Study/Mitigated Negative Declaration

BELVEDERE MIDDLE SCHOOL

Comprehensive Modernization Project

Prepared for:

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017
Contact: Christy Wong, Assistant CEQA Project Manager
213.241.3394

Prepared by:

Envicom Corporation
4165 E. Thousand Oaks Boulevard, Suite 290
Westlake Village, California 91362
Contact: Mr. Carl Lindner

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Abbreviations and Acronyms

Update as needed, minimize the use of acronyms. If a term is used only once, do not use the acronym. The acronym is used only at the first use of the term.

AAQS	ambient air quality standards
AASHTO	American Association of State Highway and Transportation Officials
BMPs	best management practices
BOE	[LAUSD] Board of Education
BUG	Backlight-Uplight-Glare
C&D	construction and demolition
CalEEMod	California Emissions Estimator Model
CALGreen	California Green Building Code
CDE	California Department of Education
CEQA	California Environmental Quality Act
CH_4	methane
CHPS	Collaborative for High Performance Schools
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
DSA	Division of the State Architect (under the California Department of General Services)
EIR	environmental impact report
FETU	Facilities Environmental Technical Unit
FTA	Federal Transit Administration
GHGs	greenhouse gases
HVAC	Heating, ventilation and air conditioning
IDA	International Dark-Sky Association
IES	Illuminating Engineering Society
LST	localized significance thresholds
LZ	lighting zones (LZ)
MEP	maximum extent practicable
MEP	Maximum Extent Practicable
MLD	Most Likely Descendant
MM	Mitigation Measures
MND	mitigated negative declaration
Mph	miles per hour
MT	metric ton
$MTCO_2e$	dioxide equivalents
$MTCO_2e$	metric tons of carbon dioxide equivalents
N_2O	nitrous oxide
NAHC	Native American Heritage Commission
ND	negative declaration
NO_2	nitrogen dioxide
O_3	ozone
Pb	lead
PCBs	Polychlorinated Biphenyls
PDFs	Project design features
PFCs	perfluorocarbons
PM_{10}	particulate matter
$PM_{2.5}$	particulate matter
ppv	peak particle velocity

Abbreviations and Acronyms

PRC	Public Resources Code
Program EIR	Program Environmental Impact Report
SC	Standard Conditions of Approval
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SF6	sulfur hexafluoride
SO_2	sulfur dioxide
SoCAB	South Coast Air Basin
SP	Specific Plan
Sq.ft.	square feet
STC	sound transmission class
SUP	School Upgrade Program

Abbreviations and Acronyms

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1. Introduction

1.1 OVERVIEW

The Los Angeles Unified School District (LAUSD or District) is proposing a comprehensive modernization project at Belvedere Middle School (MS), 312 North Record Avenue, Unincorporated East Los Angeles, Los Angeles County, California. Comprehensive modernization projects are designed to address the most critical physical needs of the building and grounds at the Belvedere MS Campus (Project site or Campus) through building replacement, renovation, modernization, and reconfiguration. The proposed comprehensive modernization project (Project) is required to undergo an environmental review pursuant to the California Environmental Quality Act (CEQA). This initial study provides an evaluation of the potential environmental consequences associated with this proposed Project.

1.2 BACKGROUND

On July 31, 2008, the LAUSD Board of Education (BOE) adopted a Resolution Ordering an Election and Establishing Specifications of the Election Order for the purpose of placing Measure Q, a $7 billion bond measure, on the November election ballot to fund the renovation, modernization, construction, and expansion of school facilities. On November 4, 2008, the bond passed. The nationwide economic downturn in 2009 resulted in a decline in assessed valuation of real property, which restricted the District's ability to issue Measure Q bonds and the remaining unissued Measures R and Y funds. Once assessed valuation improved, the BOE could authorize the issuance of bond funds.[1]

On December 10, 2013, the District refined their School Upgrade Program (SUP) to reflect the intent and objectives of Measure Q as well as the updated needs of District school facilities and educational goals.[2] Between July 2013 and November 2015, the SUP was analyzed under CEQA criteria in a Program Environmental Impact Report (Program EIR). On November 10, 2015, the BOE certified the Final SUP Program EIR.[3]

On December 13, 2016, the BOE approved the project definition for the proposed Belvedere Middle School Project to provide facilities that are safe, secure, and better aligned with the current instructional program. The proposed Project is designed to address the most critical physical concerns of the building and grounds at the Project site while providing renovations, modernizations, and reconfiguration as needed.[4]

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1 LAUSD. Board of Education Report. Report. 13/14 ed. Vol. 143. Los Angeles, CA: LAUSD, 2013.
2 LAUSD. Board of Education Report. Report. 13/14 ed. Vol. 143. Los Angeles, CA: LAUSD, 2013.
3 LAUSD. LAUSD Board of Education Report- LAUSD Regular Meeting Stamped Order of Business. Report. 15/16 ed. Vol. 159. Los Angeles, CA: LAUSD, 2015.
4 LAUSD. LAUSD Board of Education Board Informative- Important Updates Regarding the Facilities Managed Bond Program.: LAUSD, September 18, 2018.

1.3 CALIFORNIA ENVIRONMENTAL QUALITY ACT

The environmental compliance process is governed by the CEQA[5] and the State CEQA Guidelines.[6] CEQA was enacted in 1970 by the California Legislature to disclose to decision-makers and the public the significant environmental effects of projects and to identify ways to avoid or reduce the environmental effects through feasible alternatives or mitigation measures. Compliance with CEQA applies to California government agencies at all levels: local, regional, and state agencies, boards, commissions, and special districts (such as school districts and water districts).

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

California Public Resources Code (PRC) Section 21080(a) states that analysis of a project's environmental impact is required for any "discretionary projects proposed to be carried out or approved by public agencies…" In this case, LAUSD has determined that an initial study is required to determine whether there is substantial evidence that construction and operation of the proposed Project would result in environmental impacts. An initial study is a preliminary environmental analysis to determine whether an environmental impact report (EIR), a mitigated negative declaration (MND), or a negative declaration (ND) is required for a project.[7]

When an initial study identifies the potential for significant environmental impacts, the lead agency must prepare an EIR,[8] however, if all impacts are found to be less-than-significant or can be mitigated to a less-than-significant level, the lead agency can prepare a ND or MND that incorporates mitigation measures into the project.[9]

1.4 ENVIRONMENTAL PROCESS

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

1) An activity directly undertaken by any public agency including but not limited to public works construction and related activities clearing or grading of land, improvements to existing public structures, enactment and amendment of zoning ordinances, and the adoption and amendment of local General Plans or elements thereof pursuant to Government Code Sections 65100-65700.

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

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

[5] California Public Resources Code, §21000 et seq (1970).
[6] California Code of Regulations, Title 14, Division 6, Chapter 3, §15000 et seq.
[7] California Code of Regulations, Title 14, Division 6, Chapter 3, §15063.
[8] California Code of Regulations, Title 14, Division 6, Chapter 3, §15064.
[9] California Code of Regulations, Title 14, Division 6, Chapter 3, §15070.

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

1.4.1 Initial Study

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

1.4.2 Mitigated Negative Declaration

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

One of the primary objectives of CEQA is to enhance public participation in the planning process; public involvement is an essential feature of CEQA. Community members are encouraged to participate in the environmental review process, request to be notified, monitor newspapers for formal announcements, and submit substantive comments at every possible opportunity afforded by the District. The environmental review process provides several opportunities for the public to participate through public notice and public review of CEQA documents and public meetings. Additionally, LAUSD will respond to Draft MND public comments in the Final MND.

1.4.3 Tiering

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

[10] *Program EIR for the School Upgrade Program. Report.* 2015. http://achieve.lausd.net/ceqa.

1. Introduction

The Program EIR enables LAUSD to streamline future environmental compliance and reduces the need for repetitive environmental studies.[11] The Program EIR serves as the framework and baseline for CEQA analyses of later projects through a process known as "tiering." Under CEQA Guidelines Sections 15152(a) and 15385, "Tiering" refers to using the analysis of general matters contained in a broader EIR (such as one prepared for a program) with later EIRs and negative declarations on narrower projects; incorporating by reference the general discussions from the broader EIR; and concentrating the later EIR or negative declaration solely on the issues specific to the later project.[12]

The Program EIR is applicable to all projects implemented under the School Upgrade Program. The Program EIR provides the framework for evaluating environmental impacts related to ongoing facility upgrade projects planned by the District.[13] Due to the extensive number of individual projects anticipated to occur under the SUP, projects were grouped into four categories based on the amount and type of construction proposed. The four categories of projects are as follows:[14]

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

The proposed Project is categorized as Type 2 – New Construction on Existing Campus, which includes demolition and new building construction on existing campuses and the replacement of school buildings on the same location, and Type 3 – Modernization, Repair, Replacement, Upgrade, Remodel, Renovation, and Installation, which includes modernization and infrastructure upgrades. The evaluation of environmental impacts related to Type 2 and Type 3 projects, and the appropriate project design features and mitigation measures to incorporate, are provided in the Program EIR.

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

1.4.4 Project Plan and Building Design

The Project is subject to the California Department of Education (CDE) design and siting requirements, and the school architectural designs are subject to review and approval by the California Division of the State Architect (DSA). The proposed Project, along with all other SUP-related projects, is required to comply with specific design standards and sustainable building practices. Certain standards assist in reducing environmental

[11] *Program EIR for the School Upgrade Program. Report.* 2015. http://achieve.lausd.net/ceqa.
[12] California Code of Regulations Title 14, § 3 Article 1-15152(a).
[13] Ibid, at 4-8.
[14] Ibid, at 1-7.

impacts, such as the California Green Building Code (CALGreen Code)[15], LAUSD Standard Conditions of Approval (SC), and the Collaborative for High-Performance Schools (CHPS) criteria.[16]

California Green Building Code. Part 11 of the California Building Standards Code is the California Green Building Standards Code, also known as the CALGreen Code. The CALGreen Code is a statewide green building standards code and is applicable to residential and non-residential buildings throughout California, including schools. The CALGreen Code was developed to reduce GHG from buildings; promote environmentally responsible, cost-effective, healthier places to live and work; reduce energy and water consumption; and respond to the environmental directives of the Department of Housing and Community Development.

Standard Conditions of Approval for District Construction, Upgrade, and Improvement Projects. SCs of Approval for District Construction, Upgrade, and Improvement Projects (SCs) were adopted by the BOE on February 5, 2019 (Board Report Number 241-18/19). SCs are environmental standards that are applied to District construction, upgrade, and improvement projects during the environmental review process by the OEHS CEQA team to offset potential environmental impacts. The SCs were largely compiled from established LAUSD standards, guidelines, specifications, practices, plans, policies, and programs. For each SC, applicability is triggered by factors such as the project type and existing conditions. These SCs are implemented during the planning, construction, and operational phases of the projects. The Board of Education adopted a previous version of the SCs on November 10, 2015 (Board Report Number 159-15/16). They were originally compiled as a supplement to the Program Environmental Impact Report (Program EIR) for the School Upgrade Program, which was certified by the BOE on November 10, 2015 (also Board Report No. 159-15/16). The most recently adopted SCs were updated in order to incorporate and reflect recent changes in the laws, regulations and the District's standard policies, practices and specifications (e.g., the Design Guidelines and Design Standards, which are routinely updated and are referenced throughout the Standard Conditions).

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

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

[15] California Green Building Standards Code, Title 24, Part 11.

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

reducing potential impacts.

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

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

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

The specific CHPS prerequisite criteria and LAUSD SCs are identified in the tables under each CEQA topic.[17] Federal, state, regional, and local laws, regulations, plans, and guidelines; CHPS criteria; PDFs; and SCs are considered part of the Project and are included in the environmental analysis.

1.5 IMPACT TERMINOLOGY

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

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

1.6 ORGANIZATION OF THE INITIAL STUDY

The content and format of this report are designed to meet the requirements of CEQA and the State CEQA Guidelines. The conclusions in this Initial Study are that the proposed Project would have no significant impacts

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

with the incorporation of mitigation. This report contains the following sections:

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

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

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

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

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

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

A. CalEEMod Output May 1, 2019

B. Tree Inventory/Evaluation

C. Historic Resources Evaluation Report

D. Phase I Cultural Assessment

E. Geologic Investigation and Engineering Geologic Review

F. Final Phase I Environmental Site Assessment

G. Noise and Vibration Impact Analysis

H. Site Circulation Report

I. Construction Traffic Analysis

1. Introduction

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2. Environmental Setting

2.1 PROJECT LOCATION

The approximately 12.1-acre school site is located at 312 North Record Avenue (Assessor Parcel Numbers [APNs] 5233-011-900 and 5233-012-912) in the community of East Los Angeles in an unincorporated portion of Los Angeles County. Regional access to the site is from East Cesar E. Chavez Avenue. (see **Figure 1, Regional Location**).

Within the greater Los Angeles region, the Project site is located in a residential area east of Downtown Los Angeles. Regionally, the Project is bounded by four freeways, SR-60 to the south, I-5 to the west, I-10 to the north, and I-710 to the east. The nearest major road is East Cesar E. Chavez Avenue, which borders the Project site immediately to the north (see **Figure 2, Aerial Location of the Project Site**).

2.2 SURROUNDING LAND USES

The Project site is bounded by East Cesar E. Chavez Avenue to the north, North Record Avenue to the west, Michigan Avenue to the south, and athletic fields and houses to the east bounded by San Carlos Street. Residences surrounding the Project site are single family homes or duplexes. The nearest residences to Belvedere MS's buildings are the residences immediately to the west across North Record Avenue. The nearest commercial use is along East Cesar E. Chavez Avenue, which functions as a commercial corridor.

2.3 CAMPUS HISTORY

As stated in the Historic Resources Evaluation Report prepared by Rincon Consultants, Inc.,[18] the Campus was initially established in 1924 on the western portion of the Project site. The Administrative Building, the Home Economics Building, the Shop Building, and the Academic Building were built in the 1920s. Following the 1933 Long Beach earthquake, these buildings were altered with stucco and architectural detailing.

In 1952, the Physical Education Building was built and in operation, becoming the eastern-most building on Campus. The Utility and Music buildings were completed in 1953, with the Multi-Purpose Building following in 1957. Classroom Building 1 replaced several small bungalows in 1962. The Choral Music Building located at the northern edge of the Campus dates back to 1963. Classroom Building 2 was completed in 1965 north of the Physical Education Building. Five portable classroom facilities were installed on Campus between 1940 and 1966. The last major facility constructed on the Campus was the Classroom and Library Building, built in 1969.

Prior to 1948, the Campus was bisected by a road that was no longer present by 1964. In the 1960s, the residential parcels to the east of the bisecting road were acquired to make up the eastern end of Campus. In the 1970s, the homes were removed, and the resulting land used as athletic fields. Since the 1970s, there have

[18] Rincon Consultants, Inc., Belvedere Middle School, Historical Resources Evaluation Report, June 2018.

been few major additions or alterations to the Campus, with new lunch shelters constructed in 1985 and 2001, and modernization of the Home Economics Building in 1996.[19]

2.4 EXISTING CONDITIONS

The Project site is currently developed as Belvedere MS on two contiguous parcels totaling approximately 12.1 acres. The Project site is approximately 315 feet above mean sea level with a topographic gradient generally sloping down to the east-southeast. There are 20 existing buildings, an athletic field and associated paved driveways, parking areas, and landscaping. The buildings are primarily located on the western and central portions of the Campus with the athletic field comprising the eastern portion. There is an underground parking garage located at the northwestern-most building and paved parking and an athletic area on the south-central portion of the school.

The Project site currently serves Belvedere MS, Collegiate Charter High School, and Central High Tri-C CDS, a continuation school/community day school. Belvedere MS serves grades 6 through 8 and is the primary user of the Project site. Collegiate Charter High School is an independent public charter school that leases property on the Project site. Collegiate Charter High School has a different bell schedule than Belvedere MS, and therefore, does not affect pick-up/drop-off circulation. The continuing education school on the Project site started in the 2018-2019 school year.

2.5 GENERAL PLAN AND EXISTING ZONING

The existing County of Los Angeles zoning at the Project site is Specific Plan (SP). [20] Specific Plan zoning is for property that is subject to a specific plan and is recognized as subject to different details and standards within the specific plan's development standards and procedures. The Project site is within the East Los Angeles 3rd Street Specific Plan area. The plan was adopted on November 12, 2014. The Project site is within the "East Cesar E. Chavez Avenue West" area of the East Los Angeles 3rd Street Specific Plan.

On February 19, 2019 the LAUSD Board of Education, adopted a Resolution to exempt all LAUSD school sites from local land use regulations under Government Code Section 53094 (Bd. Of Ed Rpt No. 256-18/19).[21]

2.6 NECESSARY APPROVALS

It is anticipated that approvals required for the proposed Project would include, but may not be limited to, those listed below by agency type.

Responsible Agencies

A "Responsible Agency" is defined as a public agency other than the lead agency that has discretionary approval power over a project (CEQA Guidelines §15381). The Responsible Agencies, and their corresponding approvals, for individual projects to be implemented as part of the SUP may include the following:

[19] Rincon Consultants, Inc. Belvedere Middle School, Historical Resources Evaluation Report, June 2018.
[20] Los Angeles County. Department of Regional Planning, Z-Net, Accessed on February 8, 2019.
[21] LAUSD. 2019. Board of Education Report. Report. 18/19 ed. Vol. 256. Los Angeles, CA: LAUSD.

- California Department of General Services, Division of State Architect. Approval of site-specific construction drawings.
- Los Angeles Regional Water Quality Control Board. Approval of General Construction Activity Permit, including the Storm Water Pollution Prevention Plan.
- Los Angeles County, Public Works Department. Permit for curb, gutter, and other offsite improvements.
- Los Angeles County, Fire Department. Approval of plans for emergency access and emergency evacuation.

Trustee Agencies

"Trustee Agencies" include those agencies that do not have discretionary powers, but that may review the EIR for adequacy and accuracy. Potential Reviewing Agencies for individual projects to be implemented under the SUP may include the following:

State

- California Department of Transportation
- California Resources Agency
- California Department of Conservation
- California Department of Fish & Wildlife
- Native American Heritage Commission
- State Lands Commission
- California Highway Patrol

Regional

- Metropolitan Transportation Authority
- South Coast Air Quality Management District
- Southern California Association of Governments

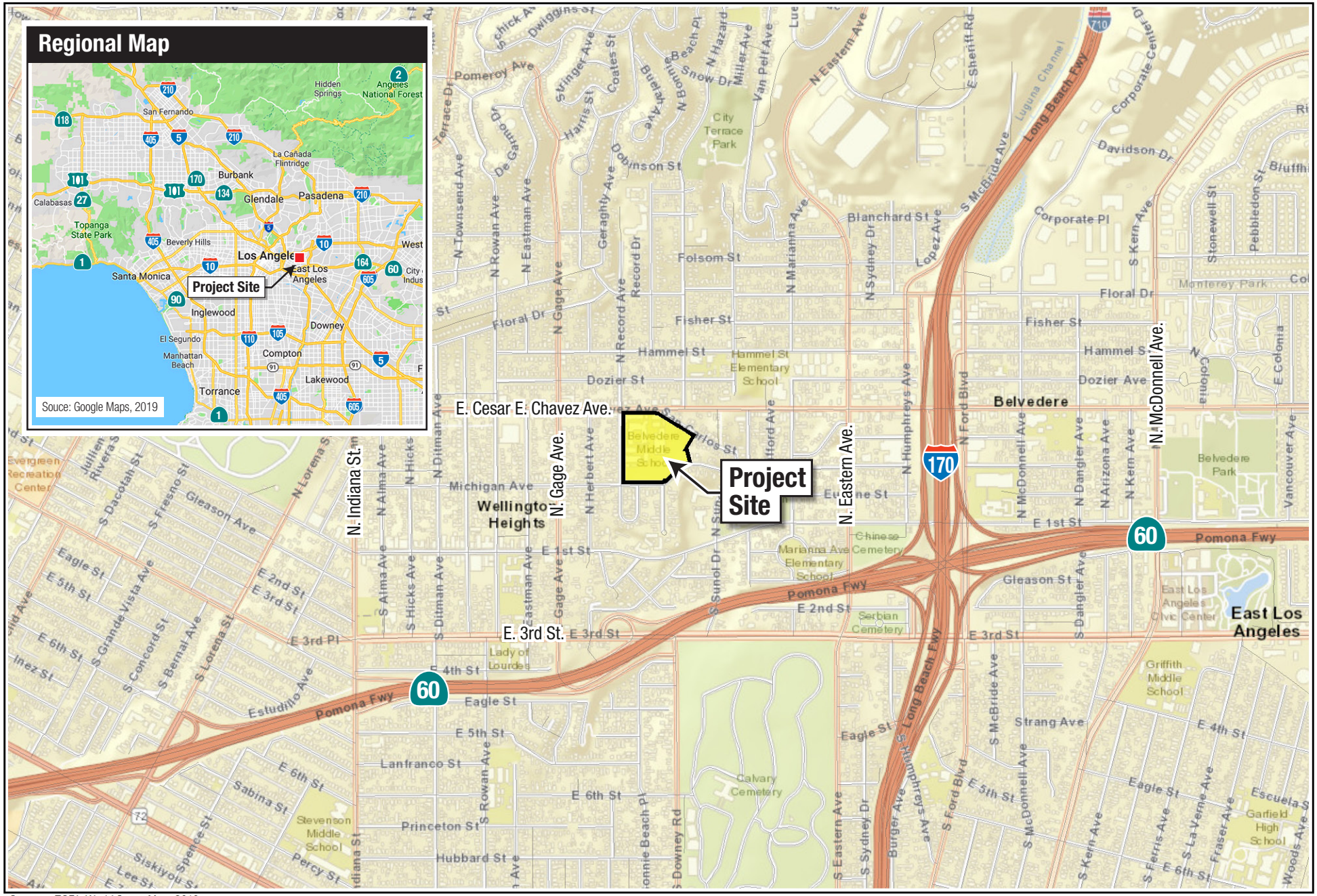
Local

- Los Angeles County, Department of Regional Planning
- Los Angeles County, Sheriff's Department
- Los Angeles County, Department of Parks and Recreation
- Los Angeles County, Department of Environmental Health

Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code Section 21080.3.1?

One Native American Tribe, Gabrieleño Band of Mission Indians - Kizh Nation, has requested notification and consultation through the PRC Section 21080.3.1 process. LAUSD notified the Gabrieleño Band of Mission Indians – Kizh Nation about this and other Projects on January 8, 2019. On January 9, 2019, the Gabrieleño Band of Mission Indians – Kizh Nation requested consultation on this and other Projects. The result of the consultation is to include SC-TCR-1 and SC-TCR-2 to protect any potential unanticipated discoveries associated with Tribal Cultural Resources.

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



Sources: ESRI, World Street Map, 2016.

BELVEDERE MIDDLE SCHOOL - MND

envicom

Regional Location Map

0 750 1,500 Feet

FIGURE 1

2. Environmental Setting

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Sources: Google Earth Pro, Nov. 7, 2019.

BELVEDERE MIDDLE SCHOOL - MND

envicom

Aerial Location of the Project Site

0 125 250 Feet

FIGURE 2

2. Environmental Setting

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3. Project Description

3.1 BACKGROUND

Belvedere MS is located in the unincorporated Los Angeles County community of East Los Angeles. The Project site boundary spans two adjacent parcels totaling 12.1 acres. The western two-thirds of the Project site are developed with 20 buildings and structures, while the eastern third consists of athletic fields. The original Campus was established in 1924 with four buildings on the western parcel. Following the 1933 Long Beach earthquake, these buildings were redeveloped. Aside from the four original buildings, the other permanent buildings and structures were added to the campus primarily between 1951 and 2001. Given the age of the facilities, many of the school buildings are out of date and are in need of renovation and upgrade.

3.2 PROPOSED PROJECT

The proposed Project involves building replacement, renovation, modernization, and reconfiguration on the Campus of Belvedere MS as part of the School Upgrade Program. This Project would seismically retrofit buildings, and meet access requirements of the Americans with Disabilities Act (ADA). The exteriors of all existing buildings would be painted to provide a uniformed look across the Campus and enhance curb appeal. Upgrades to aging and outdated infrastructure, such as the utilities and irrigation, will also be included. Various Campus safety improvements will be made, including site lighting, fencing gates, and CCTV systems. Landscape and hardscape improvements will also be made to include a student garden, central courtyard, parking lot, and service yard.

The Project will reduce the amount of classrooms, thus reducing the overall student capacity. Upon completion of the Project, the Collegiate Charter High School lease will not be renewed and that use of the Campus would cease.

3.2.1 Campus Buildings

The proposed Project changes to the Campus Buildings are shown in **Table 3.2.1-1, Proposed Project Buildings (Demolition, Remodel, and Construction)**, and **Figure 3, Proposed Project Site Plan**.

3. Project Description

Table 3.2.1-1

Proposed Project Buildings (Demolition, Remodel, and Construction)

Bldg. No.	Building	Demolition (sf)	Remodel/ Modernization (sf)	New Construction (sf)	Existing to Remain (sf)
1	Main Building (Administration Building)	38,741	15,979		
2	Classroom and Library Building (North Building)		56,429		
3	Choral Music (Building 154)				1,840
4	Existing All-Purpose Building (Building 151)				1,355
5	Existing Music Building (Building 150)				1,676
6	Storage Unit 2	371			
7	Classroom Building #2 (Math Lab)	7,441			
11	Physical Education Building	32,167			
12	Home Economics (Cafeteria)	13,610			
13	Lunch Shelter	899			
14	Utility Building (Plant)	1,738			
15	Shop Building (Industrial Arts)	16,623			
16	Storage Unit #1	376			
17	Green House	195			
19	Agriculture Classroom	752			
20	Classroom Building #1 (South Building)	25,198			
21	Academic Building	17,519			
25	Existing Building #25	1,862			
26	New Lunch Shelter	1,481			
27	Flammable Storage	51			
New Construction					
	Instruction Space			38,108	

Table 3.2.1-1
Proposed Project Buildings (Demolition, Remodel, and Construction)

Bldg. No.	Building	Demolition (sf)	Remodel/ Modernization (sf)	New Construction (sf)	Existing to Remain (sf)
	Physical Education/Athletics Facilities			19,153	
	Shared Support Areas			19,953	
	Administration			6,964	
	Maintenance & Operations			3,087	
	Campus Total* (does not include outdoor space)	**159,024**	**72,408**	**87,266**	**4,871**

Note: Floor area numbers are in square feet (sq. ft.). All new square footages are approximate and subject to change during final site and architectural planning and design phases. These changes would not significantly change the environmental analysis or findings in this IS.

* Square footage totals may not add up exactly due to rounding and the way usable space is calculated. All numbers are based on LAUSD Belvedere Middle School Comprehensive Modernization Project Scheme A – Space Program. September 15, 2019.

Current total floor area = Existing + Remodel + Demolition (237,057 sq. ft.). After Project square footage = Existing + Remodel + New (164,546). Decrease in campus square footage = 72,511 sq. ft

As shown in Table 3.2.1-1, with Project implementation, the total Campus building floor area would decrease by 72,511 sq. ft.

3.2.2 Site Access, Circulation, and Parking

The Site Circulation Report by LIN Consulting, Inc. dated October 26, 2018 was used to delineate school access, circulation, and parking (**Appendix H**). The report is incorporated into the IS analysis below.

The Campus is generally bounded by East Cesar E. Chavez Avenue to the north, Michigan Avenue to the south, North Record Avenue to the west, and San Carlos Street to the northeast. The east side of the Campus is bounded by a single-family residential neighborhood.

Bus transit stops adjacent to Belvedere MS include Metro 68 traveling westbound on East Cesar E. Chavez Avenue at the northeast corner of North Record Avenue and Metro 68 traveling eastbound on the southeast corner of North Record Avenue. The Metro Gold Line Indiana Station is approximately 1 mile southwest of Belvedere MS.

3. Project Description

There are no public bicycle facilities located within the school zone.[22] Sidewalks exist on both sides of East Cesar E. Chavez Avenue, North Record Avenue, and Michigan Avenue within the school zone. Along the northeast side of San Carlos Street there is no sidewalk for approximately 250 feet just south of its intersection with East Cesar E. Chavez Avenue. Pedestrian access to the school and sidewalks are available along the southwest side of San Carlos Street. Approximately 75 percent of the student body walk to school and approximately 10 to 15 students and faculty regularly bike to Belvedere MS. Bicycle racks and skateboard racks are provided within the Campus.

During the morning drop-off period, observed maximum vehicle queues were approximately 100 feet for the southbound and westbound directions at the intersection of North Record Avenue and Michigan Avenue. During the afternoon pick up period, maximum vehicle queues of approximately 500 feet were observed in the westbound direction on Michigan Avenue between North Record Avenue and North Bonnie Beach Place, approximately 200 feet for the eastbound through movement for the intersection of North Bonnie Beach Place and Michigan Avenue, and approximately 100 feet for the northbound movement in front of the school on North Record Avenue. Congestion generally occurs from the number of vehicles that double park and vehicles that navigate in and out of curb parking.

There are three faculty/staff parking lot facilities. The main parking lot is located underground beneath the northwestern most building, the classroom and library building. It contains 39 marked spaces with no accessible parking spaces and is approximately 95 percent utilized during school hours. The second parking lot is a surface lot located at the northeast side of the Campus. It contains 52 marked spaces and 3 van-accessible spaces and is approximately 50 percent utilized during school hours. The third parking lot is accessed from a gate located on East Cesar E. Chavez Avenue and is located between the administration school buildings and the gymnasium. This parking area contains 35 marked spaces, includes 3 van-accessible spaces, and is approximately 50 percent utilized. As Belvedere MS is a closed campus, faculty and visitors utilize available curb parking, mainly along North Record Avenue.

Most vehicular traffic to and from the school was observed to travel from East Cesar E. Chavez east and from Michigan Avenue east or west. There is an approximately 500-foot-long designated or signed passenger loading/unloading area north of Michigan Avenue between North Record Avenue and North Bonnie Beach Place. As the loading/unloading area is not sufficient in length to meet the demand, some vehicles park on the curb along Michigan Avenue, Nevada Avenue, and North Record Avenue. Other vehicles double park in the middle of the roadway. There is an additional loading/unloading area east of North Record Avenue where buses drop off or pick up students and occasional parents park in this area and block school buses.

As Belvedere MS is a closed campus, gates are only open for the morning and afternoon bell periods, with the main school entrance on North Record Avenue being the only access point during school hours. Most students enter the Campus through a gated entrance on North Record Avenue near the southeast corner of the intersection of East Cesar E Chavez Avenue and North Record Avenue and through a gated entrance on Michigan Avenue between Nevada Avenue and North Bonnie Beach Place. The north gated entrance along

[22] School zone is defined as "a designated roadway segment approaching, adjacent to, and beyond school buildings or grounds, or along which school related activities occur" in the California Manual on Uniform Traffic Control Devices (CA MUTCD) 2014 Edition.

East Cesar E. Chavez Avenue near San Carlos Street is not typically used by students and is typically used by faculty and staff who park in the northeast parking lot.

During the afternoon bell period, when school lets out, a high volume of students cross the intersection of North Record Avenue and East Cesar E. Chavez Avenue and North Record Avenue and Michigan Avenue. Crossing assistants are located at these intersections to stop students from crossing when traffic signals are red.

Most staff and faculty create vehicular traffic to the school and they predominantly come from the San Gabriel Valley area. This traffic mainly uses East Cesar E. Chavez Avenue to access the SR-60 freeway or the I-710 freeway.

There is one school bus used for magnet school students and six buses used for special education. All school buses use the east side of North Record Avenue for loading and unloading.

No changes will be made to pedestrian and vehicular circulation.

3.2.3 Landscaping

The proposed Project would involve removal and replacement of existing landscaping in selected areas of the Campus. The landscape design would comply with LAUSD School Design Guidelines. CHPS criteria would be implemented where appropriate. Irrigation systems would be installed compliant with LAUSD School Design Guidelines and Standards, CALGreen, and CHPS requirements, with a dedicated meter, new pressure reducing backflow, master valve, flow sensor, and smart controller to increase irrigation efficiency.[23] Plant material would comply with the LAUSD approved plant list and be grouped according to hydrozones. Planting areas would be amended accordingly per agronomist soils report in order to improve the soil quality, and water holding capacity.

Clear and accessible paths of travel as required by the ADA would be provided throughout the Campus. Any P.E. stations to be removed would be replaced with a one-to-one ratio of play value or greater than existing conditions. Site lighting would be integrated into the landscape design to provide safety and visibility on campus and consist of wall mounted building lights, light posts, and pathway lighting. Additional exterior campus lighting would comply with LAUSD School Design Guidelines.

The Tree Inventory/Evaluation conducted by Arbor Essence dated December 6, 2017 (**Appendix B**) studied 73 trees on the Campus.[24] Each of the 73 trees was evaluated, with comments and recommendations from an arborist and landscape architect, for its health. Of the 73 trees evaluated (see **Figure 4, Tree Inventory**), only one tree, the California sycamore, was considered protected under the City of Los Angeles Tree Protection Ordinance. Although the California sycamore is not protected within the County of Los Angeles, the LAUSD OEHS Tree Trimming and Removal Procedure outlines protected trees on LAUSD property. The California sycamore is a protected tree under the District's procedure. The rest of the western portion of the Campus is landscaped with ornamental bushes and shrubs, while the eastern portion of the Campus is comprised of a

[23] State of California. Adopted 2009 / updated 2015. Model Water Efficient Landscape Ordinance. 2009 ordinance available at: https://water.ca.gov/LegacyFiles/wateruseefficiency/docs/MWELO09-10-09.pdf 2015; update available at: https://water.ca.gov/LegacyFiles/wateruseefficiency/landscapeordinance/docs/2015%20MWELO%20Guidance%20for%20Local%20Agencies.pdf

[24] Arbor Essence, Tree Inventory/Evaluation, Belvedere Middle School, December 6, 2017.

recreation lawn. Any tree removal activities would follow the procedure outlined in the LAUSD OEHS Tree Trimming and Removal Procedure. Existing trees deemed appropriate to save would be protected in place throughout construction, with attempts made to preserve as many existing trees as possible, to the extent feasible. New canopy and accent trees would be installed to increase canopy coverage and provide shade and interest throughout the Campus. Proposed trees would be climatically appropriate and located to enhance new buildings and site features.

3.2.4 Construction Phasing and Equipment

Construction is planned to start in Quarter 2 of 2021 and be completed by Quarter 1 of 2025 (bulk of work in two separate 18-month phases). **Table 3.2.4-1** summarizes the proposed construction activities and schedule for implementation of the proposed Project.

Table 3.2.4-1
Construction Schedule and Equipment

Phase	Schedule	Equipment	Number
Demolition / Interim Housing / Modernization (i.e., Building Interiors)	*2021* *Month* to *Month* *3 months*	Excavators w/breaker	1
		Loader	1
		Bobcat/Skip	1
		Crushing Equipment	1
		Water Truck	1
		Building Debris haul trips; average 10 CY end-dump trucks	10
		Asphalt/Concrete Debris haul trips; average 10 CY end-dump trucks	10
		Jack Hammers/Air Compressor	2
Site Prep / Modernization	*Year* *Month* to *Month* *3 months*	Excavator	1
		Compactor	1
		Loader	1
		Skip Loader	1
		Water Truck	1
		Soil haul trips (soil export); average 14 CY bottom dump trucks	35
		Vibratory Rollers (for 95% soil compaction)	2
		Trencher / Excavator	1
Building Construction / Modernization	*Year* *Month* to *Month* *12 months*	Concrete Trucks	5
		Impact Pile Driver, Sonic Pile Driver, Crane-Mounted Auger Drill, or Crane-Suspended Downhole Vibrator	1
		Concrete Pump	1
		Crane	1
		Dump Trucks	2
		Fork Lifts/Gradalls	4

Table 3.2.4-1
Construction Schedule and Equipment

Phase	Schedule	Equipment	Number
		Delivery Trucks	12
		Backhoes	2
		Air Compressor	1
Asphalt Paving and Off-Site Street Work	*Year* *Month* to *Month* *3 months*	Skip Loaders	2
		Roller	1
		Paver	1
		Asphalt Trucks	8
		Water Truck	1

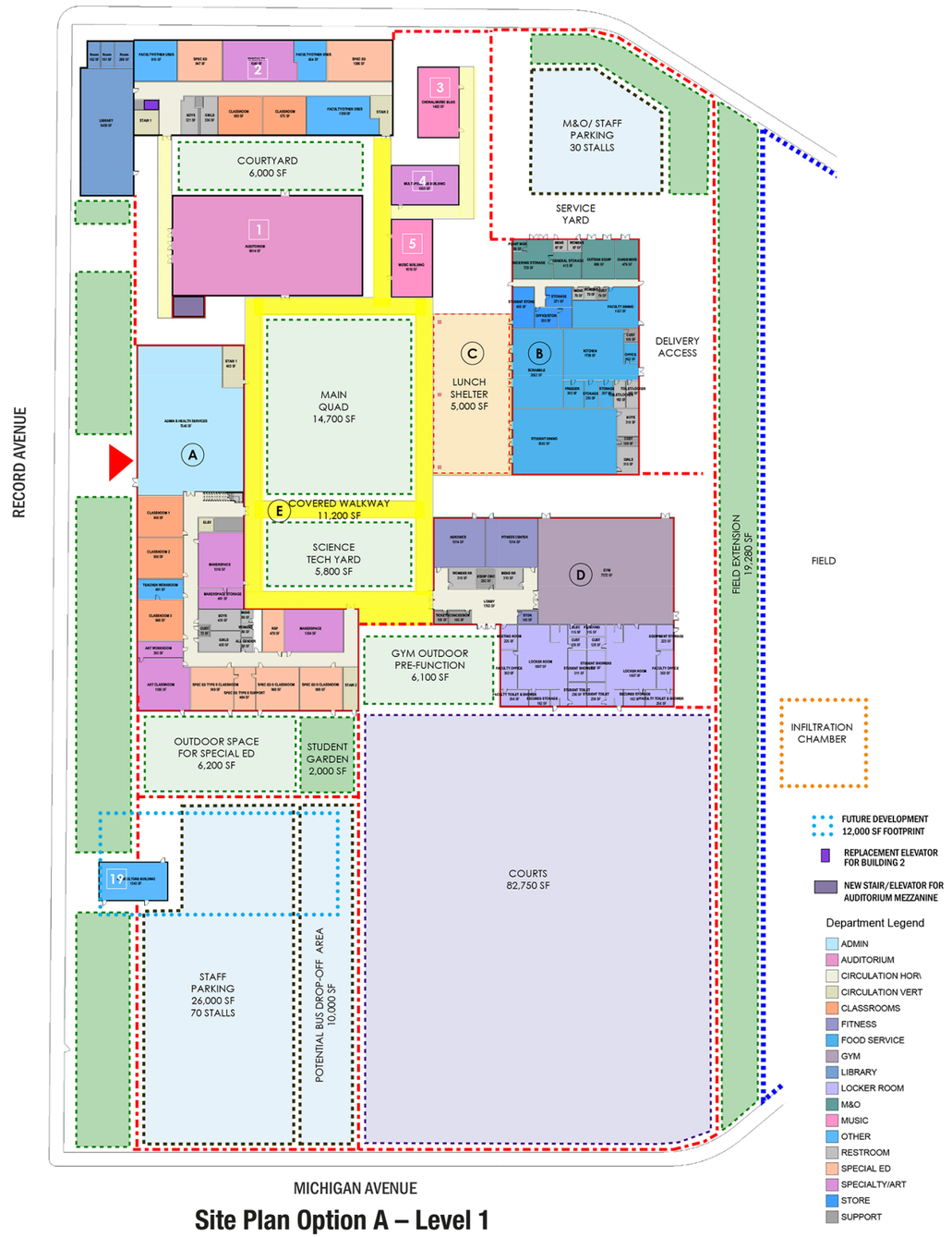
Due to active school operation during the construction phase, less than 50 percent of contiguous school site area would be disturbed at any one time. An average of 50 workers would be on-site when students are present and a maximum of 150 workers would be on-site during peak periods (i.e., during summer break).

Construction-related traffic and deliveries would be scheduled to avoid student pick-up, drop-off hours, and during noise sensitive times as coordinated with the school administration. Consistent with the County of Los Angeles Municipal Code, all construction activities would occur between 7:00 a.m. and 7:00 p.m., Monday through Saturday. Construction would be prohibited on Sundays and holidays.

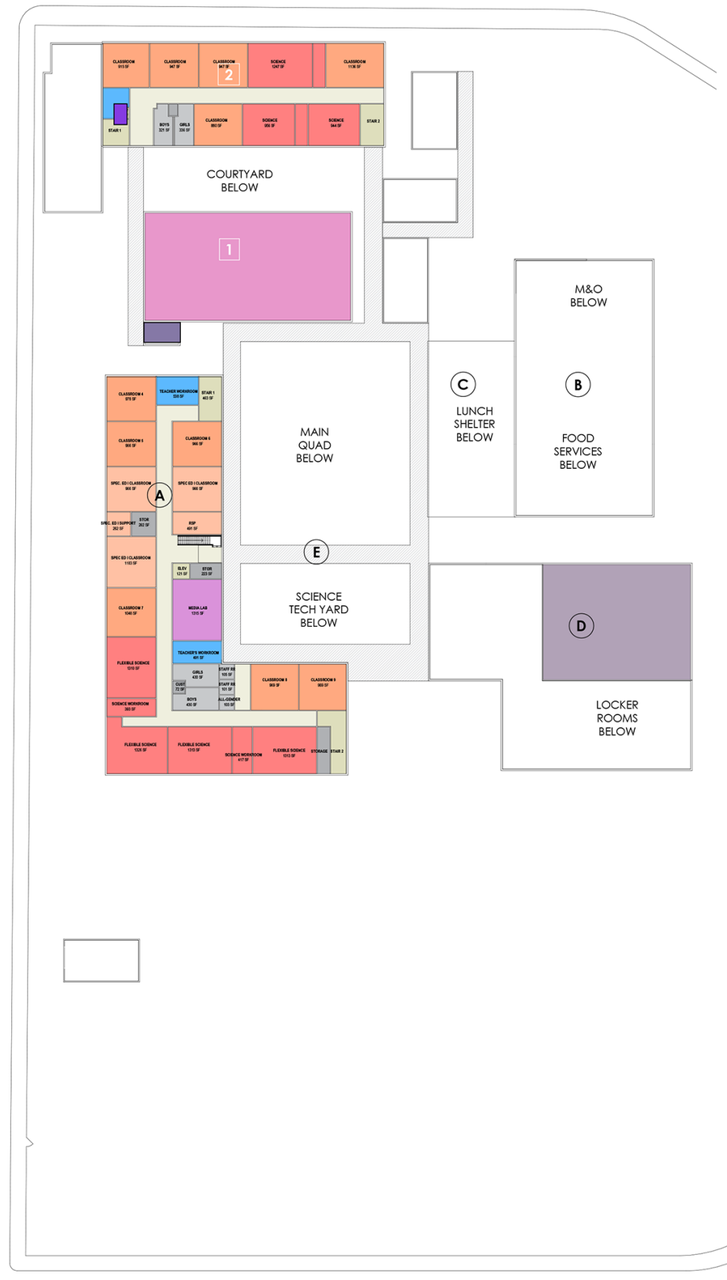
Demolition activities would be monitored by the District's Facilities Environmental Technical Unit (FETU) in accordance with the District's standard practices. FETU would be responsible for ensuring the safe removal of potential asbestos-containing materials, lead, and PCBs that may be encountered during construction. LAUSD would ensure that all construction related activities are completed in accordance with applicable federal, state, and local regulations, including but not limited to the EPA Guidance on Conducting Non-Time-Critical Removal Actions Under Comprehensive Environmental Response, Compensation, and Liability Act, National Oil and Hazardous Substances Pollution Contingency Plan, and all applicable LAUSD specifications, and standards. Construction would also comply with the applicable SCs, which include, but are not limited to, SC-USS-1, which requires that any construction waste would be recycled to the maximum extent feasible.[25]

Construction activities would include demolition, site preparation, grading, building construction, paving, and architectural coating. Site preparation and construction of the proposed Project would be in accordance with all federal, state, and local regulations including the California Green Building Code. Construction staging would occur on-site and worker parking would be provided on-site and on nearby streets.

[25] LAUSD. 2015. School Upgrade Program Environmental Impact Report. Available at: http://achieve.lausd.net/ceqa



Site Plan Option A – Level 1



Site Plan Option A – Level 2

MODERNIZATION

CLASSROOM AND LIBRARY BUILDING (BUILDING #2)
- Partition reconfiguration not required
- 21 Classrooms
- 3-Story + Basement
- 56,429 SF

AUDITORIUM (PART OF MAIN BUILDING #1)
- Auditorium Seating to remain, Not included in scope
- 1-Story + Basement + Mezzanine Level
- 13,563 SF

CHORAL BUILDING (BUILDING #3)
- 1,840 SF

CLASSROOM BUILDING (BUILDING #4)
- 1,335 SF

MUSIC BUILDING (BUILDING #5)
- 1,676 SF

AGRICULTURE CLASSROOM (BUILDING #19)
- 998 SF

NEW CONSTRUCTION

ADMINITRATION & CLASSROOM (BUILDING A)
- 21 Classrooms + 2 Specialty Classrooms
- 2-Story, 25,000 GSF Footprint
- 47,000 SF TOTAL

FOOD SERVICES AND M&O (BUILDING B)
- Includes Kitchen, Scramble, Indoor Dining, Student Store and M&O Spaces
- 1-Story, 16,500 GSF Footprint

LUNCH SHELTER (STRUCTURE C)
- 1-Story, 5,000 SF

GYM/LOCKER ROOM (BUILDING D)
- Includes Kitchen, Scramble, Indoor Dining, Student Store and M&O Spaces
- 1-Story, 21,000 GSF Footprint

COVERED WALKWAY (STRUCTURE E)
- 11,200 SF

SITE AREAS

LANDSCAPED AREAS
- 43,600 SF

QUAD/COURTYARD/OUTDOOR SPACE
- 38,800 SF

HARD COURTS
- 82,750 SF

STUDENT GARDEN
- 2,000 SF

EXTENSION OF FIELD
- 19,280 SF

Source: GKK works, Cannon Design, 2019.

Proposed Project Site Plan

3. Project Description

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Source: GKK works, 2019.

4. Environmental Checklist and Analysis

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

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

- ☐ Aesthetics
- ☐ Agriculture & Forestry Resources
- ☐ Air Quality
- ☐ Biological Resources
- ☒ Cultural Resources
- ☐ Energy
- ☐ Geology & Soils
- ☐ Greenhouse Gas Emissions
- ☐ Hazards & Hazardous Materials
- ☐ Hydrology & Water Quality
- ☐ Land Use & Planning
- ☐ Mineral Resources
- ☒ Noise
- ☐ Pedestrian Safety
- ☐ Population & Housing
- ☐ Public Services
- ☐ None
- ☐ Recreation
- ☐ Transportation & Traffic
- ☐ Tribal Cultural Resources
- ☐ Utilities & Service Systems
- ☐ Wildfire
- ☐ Mandatory Findings of Significance
- ☒ None with Mitigation Incorporated

DETERMINATION

On the basis of this initial evaluation:

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

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

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

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

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

4. Environmental Checklist and Analysis



Signature

11/13/19

Date

Carlos A. Torres

Printed Name

CEQA Officer for LAUSD

Title

EVALUATION OF ENVIRONMENTAL IMPACTS:

1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

2. All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).

5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
   a) Earlier Analysis Used. Identify and state where they are available for review.
   b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
   c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.

9. The explanation of each issue should identify:
   a) the significance criteria or threshold, if any, used to evaluate each question; and
   b) the mitigation measure identified, if any, to reduce the impact to less than significance.

4. Environmental Checklist and Analysis

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ENVIRONMENTAL IMPACTS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
I. AESTHETICS. Except as provided in Public Resources Code section 21099 (where aesthetic impacts shall not be considered significant for qualifying residential, mixed-use residential, and employment centers), would the project:				
a. Have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒
b. Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒
c. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐
d. Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

Explanation:

LAUSD has SCs for minimizing impacts to *aesthetic resources*. Applicable SCs related to *aesthetic resource* impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-AE-1	LAUSD shall review all designs to ensure that demolition of existing buildings or construction of new buildings on its historic campuses are designed to ensure compatibility with the existing campus. The School Design Guide shall be used as a reference to guide the design. **School Design Guide**[26] *This document outlines measures for re-use rather than destruction of historical resources. It requires the consideration of architectural appearance/consistency and other aesthetic factors during the preliminary design review for a proposed school upgrade project. Architectural quality must consider compatibility with the surrounding community.*
SC-AE-2:	LAUSD shall review all designs to ensure that methods from the current School Design Guide are incorporated throughout the planning, design, construction, and operation of the Project in order to limit aesthetic impacts. School Design Guide *This document outlines measures to reduce aesthetic impacts around schools, such as shrubs and ground treatments that deter taggers, vandal-resistant and graffiti-resistant materials, painting, etc.*
SC-AE-3:	*LAUSD shall assess a proposed project's consistency with the general character of the surrounding neighborhood, including any proposed changes to the density, height, bulk, and setback of a new building (including stadium), addition, or renovation. Where feasible, LAUSD shall make appropriate design changes to reduce or eliminate viewshed obstruction*

[26] The School Design Guide establishes a consistent level of functionality, quality and maintainability for all District school facilities. The document has design guidelines and criteria for the planning, design and technical development of new schools, modernizations, and building expansion projects; it includes by reference the Facilities Space Program, the Educational Specifications, the Guide Specifications, the Standard Technical Drawings of the District, and applicable codes, regulations and industry standards.

	and degradation of neighborhood character. Such design changes could include, but are not limited to, changes to campus layout, height of buildings, landscaping, and/or the architectural style of buildings.
SC-AE-4	LAUSD shall review all designs to ensure that the installation of a school marquee complies with Marquee Signs Bulletin BUL 5004.1. 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 schools. The policy also includes measures to mitigate light and glare, such as the use of "luminaries" in connection with school construction.
SC-AE-5	LAUSD shall review all designs and test new lights following installation to ensure that adverse light trespass and glare impacts are avoided. **School Design Guide** *This document outlines Illumination Criteria, requirements for outdoor lighting and measures to minimize and eliminate glare that may impact pedestrians, drivers and sports teams, and to avoid light trespass onto adjacent properties.*
SC-AE-6	The 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 has outdoor lighting standards that reduce glare, light trespass, and skyglow. The MLO uses lighting zones (LZ) 0 to 4, which allow the District to vary the lighting restrictions according to the sensitivity of the community. The MLO also incorporates the Backlight-Uplight-Glare (BUG) rating system for luminaires, which provides more effective control of unwanted light. The MLO establishes standards to: • Limit the amount of light that can be used. • Minimize glare by controlling the amount of light that tends to create glare. • Minimize sky glow by controlling the amount of uplight. • Minimize the amount of off-site impacts or light trespass.

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

No Impact. Vistas provide visual access or panoramic views to a large geographic area. The field of view from a vista location can be wide and extend into the distance.[27] Panoramic views are usually associated with vantage points looking out over a section of urban or natural areas that provide a geographic orientation not commonly available. Examples of panoramic views might include an urban skyline, valley, mountain range, the ocean, or other water bodies.[28] The Project site and surrounding area are flat and developed with urban land uses. The existing views from the area around the project site include residential and commercial uses. The area is very densely developed; thus views are mainly of existing nearby housing. The San Gabriel Mountains can be seen from certain view points on and around the Project site off in the distance. The existing development obstructs any clear views of the mountains to the north and the flat topography in the other directions does not provide any scenic views. Additionally, Project development would not obscure these views. The Program EIR states that impacts to scenic vistas with respect to all SUP projects would be less than significant, as the District is required to incorporate the LAUSD School Design Guide into the site design and construction for protection

[27] *LA CEQA Thresholds Guide, Chapter A.* Report. 2006. http://www.environmentla.org/programs/Thresholds/Complete Threshold Guide 2006.pdf. Note: although this Project site is within the Los Angeles County unincorporated area, the City of LA has provided CEQA guidance that is recommended by the LAUSD for this topic.

[28] *LA CEQA Thresholds Guide, Chapter A.* Report. 2006. http://www.environmentla.org/programs/Thresholds/Complete Threshold Guide 2006.pdf.

of unique scenic features and designated scenic vistas.[29] No impact to scenic vistas would occur. No impact would occur and no further analysis is required.

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

No Impact. The nearest designated state scenic highway to the site is State Route 2 (SR-2; Angeles Crest Highway) over 10 miles to the north.[30] Interstate 210 is an eligible state scenic highway and a portion of Interstate 110 is designated a historic parkway. Both of these highways are over 3 miles away from the site at its nearest point and separated by highly developed areas. The proposed structures associated with the Project would not be visible from any designated state scenic highway. Project development would not result in impacts to scenic resources within a designated state scenic highway. No impact to scenic resources would occur No impact would occur and no further analysis is required.

c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Less than Significant Impact. The Project site is within an urban residential neighborhood. There are residential uses on residentially zoned properties in each direction. The residential uses surrounding the area consist of a mix of single-family homes and multi-family apartments. There are commercial areas along the main thoroughfares in the Project vicinity, along with schools and parks that are intermixed in the residential areas, Belvedere MS being one of those schools intermixed in the residential areas.

The proposed Project would retain the current use of the site, within roughly the same building footprints and heights. Further, the Program EIR states that impacts to scenic vistas with respect to all SUP projects would be less than significant, as the District is required to incorporate measures from the LAUSD School Design Guide, and SC-AE-1 through SC-AE-6 into site-specific project design for the protection of character and quality of site surroundings.[31] Based on this analysis, impacts would be less than significant.

Shadow-sensitive uses include all residential uses and routinely usable outdoor spaces associated with recreational or institutional uses (e.g., schools), commercial uses such as pedestrian-oriented outdoor spaces or restaurants with outdoor eating areas, nurseries, and existing solar collectors. These uses are considered sensitive because sunlight is important to function, physical comfort, or commerce. Shade sensitive uses in the Project vicinity are limited to the residential uses adjacent to the southern, western and northern site boundaries. Impacts from shadows would be virtually the same as under current conditions, as the new Administration and Classroom building would be two stories in height, which is lower than the three story Administrative Building it would be replacing, and would be placed no closer to the Project site boundaries. Thus, the Project would not cause larger shadows that could significantly impact nearby sensitive residential uses. The other new

[29] *LA CEQA Thresholds Guide, Chapter A.* Report. 2006. http://www.environmentla.org/programs/Thresholds/Complete Threshold Guide 2006.pdf.
[30] California Scenic Highway Mapping System. September 7, 2011. http://www.dot.ca.gov/hq/LandArch/16_livability/scenic_highways/index.htm.
[31] *School Upgrade Program EIR.* Report. 2015. Accessed September 17, 2018. http://achieve.lausd.net/ceqa.

buildings that would be constructed are all 1-story buildings replacing other 1-story buildings in similar interior locations on the Campus, thus would not impact nearby sensitive residential uses. There would be no new shade impacts to uses surrounding the Campus. No significant impacts from shadows would occur as a result of the Project. No mitigation measures or further evaluation are required. Impacts would be less than significant and no further analysis is required.

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

Less than Significant Impact. The two major causes of light pollution are glare and spill light. Spill light is caused by misdirected light that illuminates areas outside the area intended to be lit. Glare occurs when a bright object is against a dark background, such as oncoming vehicle headlights or an unshielded light bulb.

The Project site is in an urban setting and is fully developed. The current uses generate limited nighttime light from security and parking lot lights and exterior building lights. Surrounding land uses currently generate light from street lights, vehicle lights, parking lot lights, and exterior building security lights.

Nighttime illumination would be designed, arranged, directed, or shielded in accordance with existing applicable regulations and guidelines for school operations. Adherence to the applicable guidelines and regulations for school site lighting would avoid excess illumination and light spillover to adjacent land uses. Additionally, the exterior of the new buildings would be constructed of non-reflective building materials so vehicle headlights would not reflect glare for drivers. With respect to all SUP projects, the Program EIR states that light and glare impacts would be less than significant with implementation of the required measures from the LAUSD School Design Guide and SC-AE-4, SC-AE-5, and SC-AE-6 to ensure that site lighting would have minimal off-site impacts.[32,33] The project would not introduce lights at substantially greater intensities than existing lights on and near the site, and the project would have no impact on nighttime views. With implementation of the required measures from the LAUSD School Design Guide and SC-AE-4, SC-AE-5, and SC-AE-6, light and glare impacts would be less than significant. No mitigation measures or further evaluation are required. Impacts would be less than significant and no further analysis is required.

[32] *School Upgrade Program EIR*. Report. 2015. Accessed September 17, 2018. http://achieve.lausd.net/ceqa.
[33] *School Upgrade Program EIR*. Report. 2015. Accessed September 17, 2018. http://achieve.lausd.net/ceqa.

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

Explanation:

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

No Impact. The Project site is within a dense developed portion of Los Angeles County with no farmland on the Campus or neighboring it. The Los Angeles County Important Farmland 2016 map published by the California Department of Conservation, Division of Land Resource Protection, Farmland Mapping and Monitoring Program shows that there is no designated farmland on the Campus.[34] Therefore, the Project would have no impact to converting farmland to non-agricultural use. No impact would occur and no further analysis is required.

[34] California Department of Conservation, Division of Land Resource Protection, Farmland Mapping and Monitoring Program, Los Angeles County Important Farmland 2016, published July 2017.

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

No Impact. The Project site is zoned for Specific Plan (SP).[35] There is no existing zoning for agricultural use on or nearby the Campus and there is no Williamson Act contract on the Campus. Therefore, the Project would have no impact to conflicting with existing zoning for agricultural use or a Williamson Act contract. No impact would occur and no further analysis is required.

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

No Impact. The Project site is zoned for Specific Plan (SP).[36] There is no existing zoning for forest land, timberland, or timberland zoned Timberland Production on or nearby the Campus. Therefore, the Project would have no impact to conflicting with existing zoning for, or cause rezoning of, forest land, timberland, or timberland zoned Timberland Production. No impact would occur and no further analysis is required.

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

No Impact. The Project site is not within a national forest, nor neighboring a national forest. The Project site is located within a highly dense urban area with no forest uses. Therefore, the Project would have no impact that would result in the loss of forest land or conversion of forest land to non-forest use. No impact would occur and no further analysis is required.

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

No Impact. The Project site is located in the unincorporated community of East Los Angeles, which is a highly urban and densely developed area. The Campus is not located on farmland or forest land, nor neighbors any farmland or forest land. Therefore, the Project would have no impact that would result in changes in the existing environment. No impact would occur and no further analysis is required.

[35] Los Angeles County, Department of Regional Planning, Z-Net, Accessed on February 8, 2019.
[36] Los Angeles County, Department of Regional Planning, Z-Net, Accessed on February 8, 2019.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact

III. AIR QUALITY. Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations.

Are significance criteria established by the applicable air district available to rely on for significance determinations? ☒ Yes ☐ No

Would the project:

a. Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c. Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

Explanation:

The following analysis was completed using calculations from the California Emissions Estimator Model (CalEEMod) dated May 1, 2019, included in Appendix A.

LAUSD has SCs for minimizing impacts to air quality. Applicable SCs related to air quality impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-AQ-2	Construction Contractor shall ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications, to ensure excessive emissions are not generated by unmaintained equipment.
SC-AQ-3	Construction Contractor shall: • Maintain speeds of 15 miles per hour (mph) or less with all vehicles. • Load impacted soil directly into transportation trucks to minimize soil handling. • Water/mist soil as it is being excavated and loaded onto the transportation trucks. • Water/mist and/or apply surfactants to soil placed in transportation trucks prior to exiting the site. • Minimize soil drop height into haul trucks or stockpiles during dumping. • During transport, cover or enclose trucks transporting soils, increase freeboard requirements, and repair trucks exhibiting spillage due to leaks. • Cover the bottom of the excavated area with polyethylene sheeting when work is not being performed. • Place stockpiled soil on polyethylene sheeting and cover with similar material. • Place stockpiled soil in areas shielded from prevailing winds.
SC-AQ-4	LAUSD shall analyze air quality impacts: If site-specific review or monitoring data of a school construction project identifies potentially significant adverse regional and localized construction air quality impacts, then LAUSD shall implement all feasible measures to reduce air emissions below the South Coast Air Quality Management District's (SCAQMD) regional and localized significance thresholds. Construction bid contracts shall include protocols that reduce construction emissions during high-emission construction phases from vehicles and other fuel driven construction engines, activities that generate fugitive dust, and surface coating operations. The

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Construction Contractor shall be responsible for documenting compliance with the identified protocols. Specific air emission reduction protocols include, but are not limited to, the following.

Exhaust Emissions

- Schedule construction activities that affect traffic flow to off-peak hours (e.g. between 10:00 AM and 3:00 PM).
- Consolidate truck deliveries and limit the number of haul trips per day.
- Route construction trucks off congested streets, as permitted by local jurisdiction haul routes.
- Employ high pressure fuel injection systems or engine timing retardation.
- Use ultra-low sulfur diesel fuel, containing 15 ppm sulfur or less (ULSD) in all diesel construction equipment.
- Use construction equipment rated by the United States Environmental Protection Agency as having at least Tier 3 (model year 2006 or newer) or Tier 4 (model year 2008 or newer) emission limits for engines between 50 and 750 horsepower.
- Restrict non-essential diesel engine idle time, to not more than five consecutive minutes.
- Use electrical power rather than internal combustion engine power generators.
- Use electric or alternatively fueled equipment, as feasible.
- Use construction equipment with the minimum practical engine size.
- Use low-emission on-road construction fleet vehicles.
- Ensure construction equipment is properly serviced and maintained to the manufacturer's standards.

Fugitive Dust

- Apply non-toxic soil stabilizers according to manufacturers' specification to all inactive construction areas (previously graded areas inactive for 10 days or more).
- Replace ground cover in disturbed areas as quickly as possible.
- Sweep streets at the end of the day if visible soil material is carried onto adjacent public paved roads (recommend water sweepers with reclaimed water).
- Install wheel washers where vehicles enter and exit unpaved roads onto paved roads, or wash off trucks and any equipment leaving the site each trip.
- Pave unimproved construction roads that have a traffic volume of more than 50 daily trips by construction equipment, and/or 150 daily trips for all vehicles.
- Pave all unimproved construction access roads for at least 100 feet from the main road to the project site.
- Enclose, cover, water twice daily, or apply non-toxic soil binders according to manufacturers' specifications to exposed piles (i.e., gravel, dirt, and sand) with a 5% or greater silt content.
- Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 miles per hour (mph).
- Water disturbed areas of the active construction and unpaved road surfaces at least three times daily, except during periods of rainfall.
- Limit traffic speeds on unpaved roads to 15 mph or less.
- Prohibit fugitive dust activities on days where violations of the ambient air quality standard have been forecast by SCAQMD.
- Tarp and/or maintain a minimum of 24 inches of freeboard on trucks hauling dirt, sand, soil, or other loose materials.
- Limit the amount of daily soil and/or demolition debris loaded and hauled per day.

General Construction

- Use 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).
- Prepare and implement a trip reduction plan for construction employees.
- Implement a shuttle service to and from retail services and food establishments during lunch hours.
- Increase distance between emission sources to reduce near-field emission impacts.

The primary air pollutants of concern for which ambient air quality standards (AAQS) have been established are ozone (O_3), carbon monoxide (CO), coarse inhalable particulate matter (PM_{10}), fine inhalable particulate matter ($PM_{2.5}$), sulfur dioxide (SO_2), nitrogen dioxide (NO_2), and lead (Pb). Areas are classified under the federal and California Clean Air Act as either in attainment or nonattainment for each criteria pollutant based on

whether the AAQS have been achieved. The South Coast Air Basin (SoCAB), which is managed by the South Coast Air Quality Management District (SCAQMD), is designated nonattainment for O_3, and $PM_{2.5}$ under the California and National AAQS, nonattainment for PM_{10} under the California AAQS, and nonattainment for lead (Los Angeles County only) under the National AAQS.[37]

Air quality regulatory setting, meteorological conditions, existing ambient air quality in the project vicinity, and air quality modeling is included as **Appendix A** to this Initial Study.

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

Less Than Significant Impact. The Project is within the SoCAB, which is overseen by the SCAQMD. The SCAQMD publishes an Air Quality Management Plan to which the Project is subject. Based on the Program EIR, the combined impact of all LAUSD school upgrade projects is not regionally significant and would therefore not warrant review by the Southern California Association of Governments (SCAG).[38] The Project is just one of the school upgrade projects within the whole LAUSD school upgrade program and would have less of an impact than the program as a whole. The Project is also not proposing to increase enrollment, thus during operation would not create new trips from new student attendance. Given the size of the Project, it would not be considered a substantial source of air pollution emissions (see also Section III.b). Therefore, the Project would have a less than significant impact with regard to conflicting with, or obstructing implementation of, the applicable air quality plan. Impacts would be less than significant and no further analysis is required.

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Less Than Significant Impact. The Project site is within the SoCAB which is in non-attainment for O_3 and $PM_{2.5}$, PM_{10}, and Pb for either the National AAQS or California AAQS.[39] Emissions analysis for these criteria pollutants, except for Pb, was performed using CalEEMod.

According to the School Upgrade Program EIR, the major sources of lead emissions to the air are from ore and metals processing and piston-engine aircraft operating on leaded aviation gasoline. Today, the highest levels of lead are usually found near lead smelters. Because emissions of lead are only found in projects that are permitted by SCAQMD, Pb is not a pollutant of concern for School Upgrade Program projects, and thus is not analyzed as part of this Initial Study.[40]

Construction Emissions

The Project is proposing to demolish 158,208 sf, remodel 69,992 sf, and construct 86,512 new sf at Belvedere MS. Grading would occur on a footprint of 1.8 acres and consist of 850 cubic yards of export[41]. The Project

[37] California Air Resources Board, Area Designations Maps / State and National, Accessed October 01, 2018 at: http://www.arb.ca.gov/desig/adm/adm.htm.
[38] Placeworks, School Upgrade Program EIR, Los Angeles Unified School District, June 2014, p. 5.3-26.
[39] California Air Resources Board, Area Designations Maps / State and National, Accessed May 6, 2019 at: http://www.arb.ca.gov/desig/adm/adm.htm.
[40] Placeworks, School Upgrade Program EIR, Los Angeles Unified School District, June 2014, p. 5.3-9.
[41] Although previous estimates showed 31,850 cubic yards of export, the current estimate as of October 2019 is the export of approximately 850 cubic yards. Since the current estimate is less than the previous estimate, environmental impacts would be less than significant and no further analysis is required.

would be required to implement standard conditions of approval, as shown above. Compliance with these conditions would reduce emissions during construction.

For purposes of analyzing the construction related air quality emissions, the analysis of daily construction emissions for each pollutant was prepared using CalEEMod. The construction related air quality emissions are summarized in **Table 4.III-1, Maximum Daily Emissions – Construction**. The estimated maximum daily emissions from peak construction activities for each respective criteria pollutant are shown in Table 4.III-1 below.

Table 4.III-1
Maximum Daily Emissions – Construction

	Maximum Construction Emissions (lbs./day)					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Construction Emissions[(a)]	9.74	38.35	33.71	0.09	2.88	1.89
SCAQMD Thresholds	75	100	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No

Source: CalEEMod.2016.3.2 Output in Appendix A. Summer and winter outputs were considered and the higher of the two conservatively used for this analysis.
(a) Emissions estimates reflect required compliance with SCAQMD regulations (Rule 403) for reducing construction dust emissions.

As shown in Table 4.III-1, peak daily construction activity emissions associated with the Project would be below SCAQMD significance thresholds for criteria pollutants during the construction phases. The Project would be required to comply with SCAQMD rules, such as Rule 403, and the standard conditions of approval. Therefore, the Project would have a less than significant impact with regard to resulting in a cumulatively considerable net increase of any criteria pollutant for which the Project region is in non-attainment during the construction phase. Construction impacts would be less than significant and no further analysis is required.

Operational Emissions

Following construction, the Project would serve the same population and would not increase student enrollment. As the Project would serve the same population and student enrollment would not increase, it is not expected to increase operational emissions from existing conditions. Therefore, the Project would have no impact to resulting in a cumulatively considerable net increase of any criteria pollutant for which the Project region is in non-attainment during the operational phase. Operational impacts would be less than significant and no further analysis is required.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less Than Significant Impact. Sensitive receptors are populations that are generally more susceptible to the effects of air pollution than the population at large. Land uses considered sensitive receptors include residences, long-term care facilities, schools, playgrounds, parks, hospitals, and outdoor athletic facilities.

Construction Localized Significance Thresholds

The nearest sensitive receptors to the Project site are the existing students at Belvedere MS. Residential areas are also considered to be sensitive to air pollution because residents (including children and the elderly) tend to be at home for extended periods of time, resulting in sustained exposure to pollutants. The nearest residential sensitive receptor is located to the east across N. Record Ave., approximately 65 feet away from the Campus. However, due to the limited scale and the short duration of construction activities, the proposed Project would not expose sensitive receptors to substantial pollutant concentrations during construction. Localized Significance Threshold (LST) analysis using SCAQMD methodology was conducted for the proposed project. LSTs are only applicable for certain criteria pollutants: oxides of nitrogen (NOx), CO, and particulate matter (PM_{10} and $PM_{2.5}$). The proposed Project was analyzed against the Localized Significance Thresholds (LST) for the Source Receptor Area (SRA) 11 – South San Gabriel Valley. LSTs are determined as a function of receptor distance.

For the proposed Project, to be conservative, the most stringent 25-meter source-receptor distance and 1-acre site size was used to elevate LST impacts. The maximum on-site emissions generated during any construction phase for LST-related criteria pollutants are listed in **Table 4.III-2, LST – Maximum On-site Construction Emissions**.

Table 4.III-2
LST - Maximum On-site Construction Emissions

LST 1 acre/25 meters South San Gabriel Valley	On-site Emissions (pounds/day)[a]			
	CO	NO_x	PM_{10}	$PM_{2.5}$
Max. On-Site Emissions	27.7	31.5	1.6	1.45
LST Threshold	673	83	5	4
Exceeds Threshold?	No	No	No	No

Source: CalEEMod.2016.3.2 Output in Appendix A.
[a] Emissions shown are the highest daily estimates for any construction phase. Emissions during any other phase would be less.

Table 4.III-2 shows that even at the most stringent LST thresholds, the Project would not exceed thresholds. Therefore, the Project would have a less than significant impact with regard to exposing sensitive receptors to substantial pollutant concentrations during construction. Impacts would be less than significant and no further analysis is required.

Construction Emission Health Risk

Project construction is expected to require 42 months, primarily consisting of two 18-month phases, with a break(s) or limited activity in between. As school will be active during the construction phase, the construction plan assures that less than 50 percent of the Project site would be disturbed at any one time. There would be an average of 50 workers on-site when students are present, but this number would increase during school breaks. The Project would be required to comply with applicable municipal code standards and standard conditions of approval. Therefore, the Project would have a less than significant impact with regard to exposing sensitive receptors to a construction emission health risk. Impacts would be less than significant and no further analysis is required.

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Operation Localized Significance Thresholds

During operation the Project would serve the same population and have a similar number of students. The Project would not increase the number of students and would not expect to increase traffic. Schools also do not fall within the category of uses that is expected generate substantial uses of emissions.[42] Therefore, the Project would have a less than significant impact to exposing sensitive receptors to substantial pollutant concentrations during operation. Impacts would be less than significant and no further analysis is required.

Carbon Monoxide Hotspots

The Project is within the SoCAB, which is in attainment for CO. As discussed in the School Upgrade Program EIR, a project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour to generate a significant CO impact.[43] The student enrollment would not increase after construction; thus, the Project is not expected to increase traffic volumes by more than 44,000 vehicles. Therefore, the Project would have a less than significant impact with regard to exposing sensitive receptors to carbon monoxide hotspots. Impacts would be less than significant and no further analysis is required.

Soil Disturbance

Projects that involve earth-moving activities of more than 50 cubic yards of soil that contain identified toxic air contaminants (TACs) are subject to South Coast Air Quality Management (SCAQMD) Rule 1466. As the Project would involve earth-moving activities of more than 50 cubic yards, LAUSD would sample and test soils for the presence of TACs to determine if the Project is subject to SCAQMD Rule 1466. If TACs are found, LAUSD shall comply with all relevant and appropriate requirements of SCAQMD Rule 1466. Therefore, impacts would be less than significant. Impacts would be less than significant and no further analysis is required.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less Than Significant Impact. The Project involves building replacement, renovation, modernization, and reconfiguration at an existing middle school. The Project would be subject to the Los Angeles County Code and standard conditions of approval as shown above. There would not be additional significant emissions, such as those generating substantial odors, other than those discussed above, that would adversely affect a substantial number of people. Therefore, the Project would have a less than significant impact with regard to resulting in other emissions adversely affecting a substantial number of people. Impacts would be less than significant and no further analysis is required.

[42] Placeworks, School Upgrade Program EIR, Los Angeles Unified School District, June 2014, p. 5.3-30.
[43] Placeworks, School Upgrade Program EIR, Los Angeles Unified School District, June 2014, p. 5.3-30.

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

Explanation:

The following analysis was completed with information from the LAUSD School Upgrade Program EIR and the site-specific Tree Inventory/Evaluation conducted by Arbor Essence dated December 6, 2017, included in Appendix B.

LAUSD has SCs for minimizing impacts to biological resources. Applicable SCs related to biological resources impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-BIO-2	LAUSD shall protect sensitive wildlife species from harmful or disruptive exposure to light by shielding light sources, redirecting light sources, or using low intensity lighting. All exterior light fixtures shall be listed as dark sky compliant as required under SC-AE-6.
SC-BIO 3	LAUSD shall comply with the following specifications related to bird and bat nesting sites. Project activities (including, but not limited to, staging and disturbances to native and non-native vegetation, structures, and substrates[44]) should occur outside of nesting season to avoid take of birds, bats, or their eggs.[45] Bird Surveys - Construction Demolition or Vegetation Removal in or adjacent to Native Habitat

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

[45] 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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- For construction projects occurring in or adjacent to native habitat, a qualified LAUSD nesting bird Surveyor or qualified Biologist (Surveyor/Biologist) may determine that additional surveys are required outside of the breeding and nesting season (February 1st through August 31st, beginning January 1st for raptors) to determine if protected birds occupy the area (e.g., project site is adjacent to areas with suitable habitat for Southwestern willow flycatcher).
- If avoidance of the avian breeding season is not feasible, beginning 30 days prior to the initiation of the project activities, the Surveyor/Biologist with experience conducting nesting 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. In areas that contain suitable habitat for listed species, species-specific surveys shall be conducted by a qualified Biologist authorized by the regulatory agencies.
- If a protected bird is observed, additional protocol-level surveys may be required to determine if the sighting was a transient individual or if the site is used as nesting habitat for that species. Project activities shall be delayed until there is a final determination.
- If an active nest is located, project activities within 300 feet of the nest (within 500 feet for raptor nests), or as determined by the Surveyor/Biologist shall be delayed 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 boundary of the 300- or 500-foot buffer between the project activities and the nest or tree. Project personnel, including all Construction Contractors working on site, shall be instructed on the sensitivity of the area. Protective measures shall be documented to show compliance with applicable State and Federal laws pertaining to the protection of birds.
- If the Surveyor/Biologist determines that a narrower buffer between the project activities and active nests is warranted, a written explanation for the change shall be submitted to the LAUSD OEHS CEQA Project Manager. If approved, the Surveyor/Biologist can reduce the demarcated buffer.
- A Surveyor/Biologist 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 Monitor shall send weekly monitoring reports to LAUSD OEHS CEQA Project Manager during the grubbing and clearing of vegetation, and shall notify LAUSD immediately if project activities damage avian nests.

Bird Surveys - Construction, Demolition, or Vegetation Removal at Existing Campuses

- If avoidance of the avian breeding season is not feasible, the Surveyor/Biologist with survey experience shall conduct a nesting bird surveys to determine if active nests are within or adjacent to the work area.
- The survey shall be conducted no more than 3 days prior to construction activities. A memo describing results of the survey shall be submitted to the OEHS CEQA Project Manager.
- If an active bird nest is observed, the Surveyor/Biologist shall determine the appropriate buffer around the nest. Buffers are determined on species-specific requirements and nest location.
- The Monitor shall send weekly monitoring reports to LAUSD OEHS CEQA Project Manager.
- No construction activity shall occur within the buffer zone until nest is vacated, juveniles have fledged, and there is no evidence of a second attempt at nesting.

Bat Surveys

- Bat species inventories and habitat use studies shall be completed for demolition or new construction projects in native habitat as well as projects that require the removal of mature conifer, cottonwood, sycamore or oak trees or abandoned buildings.
- Bat surveys must be conducted by a qualified bat Surveyor or Biologist (Surveyor/Biologist). The Surveyor/Biologist shall use the appropriate combination of structure inspection, sampling, exit counts, and acoustic monitors to survey an area that may be affected by the project.
- If bats are found, the Surveyor/Biologist shall identify the species and evaluate the colony to determine potential impacts.
- Mitigation measures shall be determined on a project-specific basis and may include:
- Avoidance
- Humane exclusion prior to demolition
  - Bats should not be evicted from roost sites during the reproductive period (May-September), or during winter hibernating periods to avoid direct mortality
  - Bats should be flushed from trees prior to felling or trimming.
- Off-site habitat improvements shall be conducted in coordination with the California Department of Fish and Wildlife.

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

Less Than Significant Impact. The Project site is highly developed with buildings and landscaped areas. Surrounding areas are also densely developed with little to no native or undisturbed habitat. Of the trees surveyed within the Tree Inventory/Evaluation, only one tree, the California sycamore, was considered protected under the LAUSD OEHS Tree Trimming and Removal Procedure.

Landscaped areas within and surrounding the Campus may provide habitat for wildlife habituated in an urban setting, but paved roads and parking areas within the urban setting provide little cover and limited foraging for the few wildlife species present in the surrounding urban environment. While there are no native species on the Campus, and the likelihood of a native species to occur on the Campus is unlikely, there is a potential for birds to nest on Campus and adjacent areas. This creates the potential to result in take of nesting birds. Implementation of SC-BIO-3 would ensure that any birds and bats that may occur on site are accounted for through surveys if construction is within the nesting season. Therefore, the Project would have a less than significant impact with regard to affecting species identified as candidate, sensitive, or special status in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service. Impacts would be less than significant and no further analysis is required.

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

No Impact. The Project site is highly developed with buildings and landscaped areas. Areas surrounding the Campus are similarly densely developed. There are no riparian areas on the Campus or neighboring the Campus. Therefore, the Project would have no impact with regard to riparian habitat or other sensitive natural communities identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service. No impact would occur and no further analysis is required.

c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact. The Project site is fully developed and has been developed for over 50 years. There are no state or federally protected wetlands on site. The western two-thirds of the Project site is landscaped and paved over, while the eastern one-third of the Project site is a landscaped recreational field of turf grass. All areas of the Project site and its surroundings are highly developed; thus, improvements would not impact protected wetlands. Therefore, the Project would have no impact with regard to state or federally protected wetlands through direct removal, filling, hydrological interruption, or other means. No impact would occur and no further analysis is required.

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

No Impact. The Project site is within a highly developed urban area within unincorporated Los Angeles County. According to the Los Angeles County General Plan, the Project site is not within or adjacent to a regional habitat linkage.[46] There are no waterbodies within or adjacent to the Project and thus would have not potential for migratory fish. All of the existing vegetation on site is ornamental and maintained landscape. Therefore, the Project would have no impact with regard to interfering with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites. No impact would occur and no further analysis is required.

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

No Impact. The Project site is within a highly developed urban area within unincorporated Los Angeles County. A Tree Inventory and Evaluation was conducted for 73 trees on the Project site and only one was identified as being protected.[47] That tree was a California Sycamore which is only protected in the City of Los Angeles Tree Protection Ordinance but not protected within Los Angeles County. Other vegetation on the Project site consists of ornamental bushes and shrubs. All tree removal activities associated with the proposed Project would be required to comply with the LAUSD OEHS Tree Trimming and Removal Procedure. Therefore, the Project would have no impact with regard to conflicting with any local policies or ordinances protecting biological resources, such as trees. No impact would occur and no further analysis is required.

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

No Impact. The Project site is within a highly developed area within unincorporated Los Angeles County. There are not significant amounts of open space within the surrounding areas. The Project is not within a Regional Wildlife Linkage[48] nor is it within a habitat conservation plan. Therefore, the Project would have no impact with regard to conflicting with provisions of an adopted or approved local, regional, or state habitat conservation plan. No impact would occur and no further analysis is required.

[46] Los Angeles County, General Plan 2035, Figure 9.2: Regional Habitat Linkages, May 2014.
[47] Arbor Essence, Tree Inventory/Evaluation, Belvedere Middle School, December 6, 2017.
[48] Los Angeles County. General Plan 2035, Figure 9.2: Regional Habitat Linkages, May 2014.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
V. CULTURAL RESOURCES: Would the project:				
a. Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?	☐	☐	☒	☐
b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	☐	☒	☐	☐
c. Disturb any human remains, including those interred outside of dedicated cemeteries?	☐	☒	☐	☐

Explanation:

The following analysis was completed using information from the Belvedere Middle School Historical Resources Evaluation Report prepared by Rincon Consultants, Inc. dated June 2018 (HRER), included in **Appendix C** and the Phase I Cultural Assessment for the Belvedere Middle School Project prepared by Envicom Corporation on April 4, 2019, included in **Appendix D**.

LAUSD has SCs for minimizing impacts to cultural resources. Applicable SCs related to cultural resources impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-CUL-6	LAUSD shall retain a qualified Archaeologist to be available on-call. The Archaeologist shall meet the Secretary of the Interior's Professional Qualifications Standards (48 Federal Register 44738–39). The archaeologist must have knowledge of both prehistoric and historical archaeology. To reduce impacts to previously undiscovered buried archaeological resources, following completion of the final grading plan and prior to any ground disturbance, a qualified archaeologist shall prepare an Archaeological Monitoring Program as described under SC-CUL-7.
SC-CUL-7	The Construction Contractor shall halt construction activities within a 30 foot radius of the find and shall notify the LAUSD. • LAUSD shall retain an Archaeologist that meets the Secretary of the Interior's Professional Qualifications Standards (48 Federal Register 44738–39). The archaeologist must have knowledge of both prehistoric and historical archaeology. • The Archaeologist shall have the authority to halt any project-related construction activities that could impact potentially significant resources. • The Archaeologist shall be afforded the necessary time to recover and assess the find. Ground-disturbing activities shall not continue until the discovery has been assessed by the Archaeologist. With monitoring, construction activities may continue on other areas of the project site during evaluation and treatment of historic or unique archaeological resources. • If the find is determined to be of value, the Archaeologist shall prepare an Archaeological Monitoring Program and shall monitor the remainder of the ground-disturbing activities. • Significant archaeological resources found shall be curated as determined necessary by the Archaeologist and offered to a local museum or repository willing to accept the resource. • Archaeological reports shall be submitted to the South Central Coastal Information Center at the California State University, Fullerton. • The Archaeological Monitoring Plan shall include: o Extent and duration of the monitoring based on the grading plans o At what soil depths monitoring of earthmoving activities shall be required o Location of areas to be monitored

	○ Types of artifacts anticipated ○ Procedures for temporary stop and redirection of work to permit sampling, including anticipated radius of suspension of ground disturbances around discoveries and duration of evaluation of discovery to determine whether they are classified as unique or historical resources ○ Procedures for maintenance of monitoring logs, recovery, analysis, treatment, and curation of significant resources ○ Procedures for archaeological resources sensitivity training for all construction workers involved in moving soil or working near soil disturbance, including types of archaeological resources that might be found, along with laws for the protection of resources. The sensitivity training program shall also be included in a worker's environmental awareness program that is prepared by LAUSD with input from the Archaeologist, as needed. ○ Accommodation and procedures for Native American monitors, if required. ○ Procedures for discovery of Native American cultural resources. • The construction manager shall adhere to the stipulations of the Archaeological Monitoring Plan.
SC-CUL-8	Cultural resources sensitivity training shall be conducted for all construction workers involved in ground-disturbing activities. This training shall review the types of archaeological resources that might be found, along with laws for the protection of resources and shall be included in a worker's environmental awareness program that is prepared by LAUSD with input from a qualified Archaeologist, as needed.
SC-CUL-9	LAUSD shall determine whether it is feasible to prepare and implement a Phase III Data Recovery/Mitigation Program. If feasible, the Archaeologist shall prepare a Phase III Data Recovery/Mitigation Program to outline procedures to recover a statistically valid sample of the archaeological remains and to document the site and reduce impacts to be less than significant. All documentation shall be prepared in the standard format of the ARMR Guidelines, as prepared by the OHP. Once a Phase III Data Recovery/Mitigation Program is completed, an Archaeological Monitor shall be present to oversee the ground-disturbing activities to ensure that construction proceeds in accordance with the Program.
SC-CUL-10	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.

a) Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?

Less Than Significant Impact. The Administrative Building, Home Economics Building, Shop Building, and Academic Building are the oldest buildings on campus, dating back to the mid-to-late 1920s. Each of these buildings were extensively altered after the 1933 Long Beach earthquake and in subsequent decades. Alterations and additions to these buildings resulted in the loss of integrity of design, materials, and workmanship. As a result, these buildings no longer retain architectural integrity. The HRER found that the Campus is not eligible as a historic built environmental resource. Therefore, changes to the Campus would not affect the significance of a historical resource pursuant to Section 15064.5, and impacts would be less than significant. Impacts would be less than significant and no further analysis is required.

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

Less Than Significant with Mitigation Incorporated. A cultural resource record search was conducted by the South Central Coastal Information Center (SCCIC) and the California Native American Heritage Commission (NAHC).[49] Both searches examined the Project site plus a 0.5-mile study area around the Project. The record search results from the SCCIC were received on January 9, 2019 and resulted in no previously identified cultural resources located within the Project property. However, 17 historic archaeological cultural

[49] Envicom Corporation, Phase I Cultural Assessment of the Belvedere Middle School Project, Los Angeles County, California, April 4, 2019.

resources were located within the 0.5-mile study area and although none of the 17 resources were adjacent or close to Belvedere Middle School and would not be directly affected, the Project location was determined to be sensitive for older historic archaeological cultural resources based on the occurrence of resources in the study area. Additionally, 18 cultural resource reports involving the surrounding 0.5-mile study area were identified within the SCCIC results, but no results directly involving the Project property.

A physical assessment of the Project property was also conducted to determine if previously unrecorded cultural resources could be identified from surface observation. Upon examination, it was determined that the athletic field was mostly modern fill and monitoring was not recommended. The landscaped area to the south of the agricultural building appeared to follow the original landscape slope and may contain subsurface artifacts and/or features that are associated with the earliest use of the school. No cultural resources were found during the physical assessment.

As the results of the SCCIC study area, the land use history, and study of historic maps and aerial photos indicated, the Project property had early historic residential development, the Project was determined to be within an area that is sensitive for older historic archaeological resources and thus have a potentially significant impact. LAUSD SC-CUL-6 through SC-CUL-10 will be employed to reduce impacts. In addition, implementation of Mitigation Measures **(MM)-CUL-1** would require monitoring and reporting during construction. With implementation of MM CUL-1 and SC-CUL-6 through SC-CUL-10, the Project would have a less than significant impact to archaeological resources. Impacts would be less than significant with incorporation of mitigation and no further analysis is required.

MM-CUL-1 An archaeological monitor that meets the Secretary of Interior qualifications will be on site during grading within the small former agricultural area in the southwest corner of the campus. The archaeological monitor will collect any prehistoric or older historic material that is uncovered through grading that is within a disturbed or sparse context, and can halt construction within 50-feet of a potentially significant cultural resource if necessary.

Artifacts collected from a disturbed or sparse context or that do not warrant additional assessment can be collected without the need to halt grading. However, if prehistoric artifact concentrations, layers, or features, or older historic foundations, artifact concentrations, or significant features are encountered, the Project "discovery" protocol should be followed.

A final Project Monitoring Report will be produced that discusses all monitoring activities and all artifacts recovered and features identified through monitoring of the Project site. Discovery situations that do not lead to further assessment, survey, evaluation, or data recovery can be described in the Monitoring Report. All artifacts recovered that are important, with diagnostic or location information that may be of importance, will be cleaned, analyzed, and described within the Monitoring Report. All materials will be curated at an appropriate depository. If important materials are found during monitoring, a Curation Plan will be needed that is reviewed by the Lead Agency prior to the publication of the Monitoring Report.

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c) Disturb any human remains, including those interred outside of formal cemeteries?

Less Than Significant with Mitigation Incorporated. The Project site is within an area that is sensitive for older historic and prehistoric cultural resources.[50] Historic aerial photos show older historic development in the Project area. While there are no known human remains on site or formal cemeteries on site, the potential for inadvertent discovery of human remains is always a possibility. As the Project site is within an area sensitive for archaeological resources, the Project would have a potentially significant impact to disturb human remains. With implementation of MM-CUL-2, project impacts would be reduced to less than significant. Therefore, the Project would have a less than significant impact with regard to disturbing human remains. Impacts would be less than significant with incorporation of mitigation and no further analysis is required.

MM-CUL-2 The inadvertent discovery of human remains is always a possibility during ground disturbances; State of California Health and Safety Code Section 7050.5 addresses these findings. This code section states that in the event human remains are uncovered, no further disturbance shall occur until the County Coroner has made a determination as to the origin and disposition of the remains pursuant to California Public Resources Code Section 5097.98. The Coroner must be notified of the find immediately, together with the City and the property owner.

If the human remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). The MLD shall complete the inspection of the site within 48 hours of notification and may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials and an appropriate re-internment site. The Lead Agency and a qualified archaeologist shall also establish additional appropriate mitigation measures for further site development, which may include additional archaeological and Native American monitoring or subsurface testing.

[50] Envicom Corporation, Phase I Cultural Assessment of the Belvedere Middle School Project, Los Angeles County, California, April 4, 2019.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
VI. ENERGY: Would the project:				
a. Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☒	☐
b. Conflict with or obstruct a state or local plan for renewable energy efficiency?	☐	☐	☒	☐

Explanation:

The Program EIR contains one SC for minimizing project impacts to GHG emissions and utilities and service systems that is applicable to energy. Projects implemented under the SUP were determined in the Program EIR to result in less than significant impacts to GHG emissions and utilities and service systems.

LAUSD Standard Conditions of Approval	
SC-AQ-2	Construction Contractor shall ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications, to ensure excessive emissions are not generated by unmaintained equipment.
SC-GHG-1	During operation, LAUSD shall perform regular preventative maintenance on pumps, valves, piping, and tanks to minimize water loss.
SC-GHG-2	LAUSD shall utilize automatic sprinklers set to irrigate landscaping during the early morning hours to reduce water loss from evaporation.
SC-GHG-3	LAUSD shall reset automatic sprinkler timers to water less during cooler months and rainy season.
SC-GHG-4	LAUSD shall develop a water budget for landscape (both non-recreational and recreational) and ornamental water use to conform to the local water efficient landscape ordinance. If no local ordinance is applicable, then use the landscape and ornamental budget outlined by the California Department of Water Resources.
SC-GHG-5	LAUSD shall ensure that the designed time dependent valued energy shall be 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.
SC-USS-1	Consistent with current LAUSD requirements for recycling construction and demolition waste, the Construction Contractor shall implement the following solid waste reduction efforts during construction and demolition activities: **School Design Guide.** Establishes a minimum non-hazardous construction and demolition (C&D) debris recycling requirements of 75% by weight. Construction and demolition waste shall be recycled to the maximum extent feasible. **Construction & Demolition Waste Management.** This document outlines procedures for preparation and implementation, including reporting and documentation, of a Waste Management Plan for reusing, recycling, salvaging or disposal of non-hazardous waste materials generated during demolition and/or new construction 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 by weight.

The proposed Project would be designed to meet CHPS criteria for energy performance and includes an energy management system. LAUSD is committed to sustainable construction principles and has been a member of the CHPS since 2001. CHPS has established criteria for the development of high-performance schools to create

a better educational experience for students and teachers by designing the best facilities possible. CHPS-designed facilities are healthy, comfortable, energy efficient, material efficient, easy to maintain and operate, commissioned, environmentally responsive site, a building that teaches, safe and secure, community resource, stimulating architecture, and adaptable to changing needs. The proposed Project would comply with CHPS and LAUSD sustainability guidelines.

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less Than Significant Impact. As detailed in the Project Description, the Project would include building replacement, renovation, modernization, and reconfiguration. During construction, the Project would be subject to the County of Los Angeles Building Code, County of Los Angeles Green Building Standards Code, California Building Code, and California Green Building Code. Compliance with these codes would also ensure efficient operational uses of energy resources. New construction would generally be more energy efficient than older construction, based on more energy-conserving code requirements over time. During operation, the Project site would be utilized for normal school functions, operating only during school hours, and would not result in a wasteful, inefficient, or unnecessary consumption of energy resources. Therefore, the Project would have a less than significant impact with regard to resulting in wasteful, inefficient, or unnecessary consumption of energy resources. Impacts would be less than significant and no further analysis is required.

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Less Than Significant Impact. The proposed Project would include building replacement and renovation, modernization, and reconfiguration of existing buildings on a middle school campus with new, more energy-efficient modernized buildings. The Project would be required to comply with the County of Los Angeles Building Code, County of Los Angeles Green Building Standards Code, California Building Code, and California Green Building Code. The codes that the Project would be required to comply with are in place to ensure compliance with state and local plans and ensure energy efficiency. Therefore, the Project would have a less than significant impact with regard to conflicting with or obstructing a state or local plan for renewable energy or energy efficiency. Impacts would be less than significant and no further analysis is required.

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

Explanation:

The following analysis was completed using information from the Geotechnical Investigation and Engineering Geologic Review prepared by Southwest Inspection & Testing, Inc. dated July 5, 2017, included in **Appendix E** and the Phase I Cultural Assessment for the Belvedere Middle School Project prepared by Envicom Corporation on April 4, 2019, included in **Appendix D**.

LAUSD has SCs for minimizing impacts to geology and soils. Applicable SCs related to geology and soils impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-GEO-1	LAUSD shall prepare a Geohazard Assessment for the construction of any new school or applicable school addition.
SC-CUL-11	LAUSD shall retain a Paleontological Monitor to oversee specific ground-disturbing activities as determined by the scope of work and final grading plan. The 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, the Construction Contractor shall halt construction activities within a 30 foot radius of the find and shall notify the LAUSD. • Ground-disturbing activities shall not continue until the discovery has been assessed by the Paleontologist. • The paleontologist shall have the authority to halt construction activities to allow a reasonable amount of time to identify potential resources. • Significant resources found shall be curated as determined necessary by the Paleontologist.

a. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

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

Less Than Significant Impact. The Project site is within Los Angeles County which is a highly seismic area within the influence of several faults that are considered to be active or potentially active. However, there are no known active or potentially active faults trending toward or through the site and it is not within any currently designated State of California Alquist-Priolo Special Studies Zones.[51] The closest fault zone to the Campus is the Elysian Park (Upper), which is over a mile away. There are several active and potentially active fault zones within a 50-mile radius but none run through the Campus. Given the distance of the Project site from nearby active and potentially active faults, potential for surface fault rupture within the Campus is considered very low.[52] Therefore, the Project would have a less than significant impact with respect to causing potential substantial adverse effects due to rupture of a known earthquake fault. Impacts would be less than significant and no further analysis is required.

ii. Strong seismic ground shaking?

Less Than Significant Impact. The Project site is within the County of Los Angeles, which has numerous fault zones and is considered seismically active. As explained above, there are several faults within a 50-mile radius. For this reason, moderate to severe ground shaking can be expected. There have been several earthquakes of Richter Magnitude 6.0 or greater throughout history in the greater region, and many earthquakes of 5.9 or less within a few miles of the Campus. This historic pattern of seismic activity is expected to continue and is likely to result in moderate to severe ground shaking that will affect the Campus. Part of the Project's goals is to provide seismic upgrades for buildings and build newer buildings that would also be suited for seismic ground shaking. Compared to existing conditions, the Project would improve the school's resiliency to strong seismic ground shaking. Implementation of SC-GEO-1, which requires preparation of a Geohazard Assessment, would include geotechnical recommendations for construction to avoid impacts from seismic shaking. One of the primary objectives of the proposed Project is to ensure that buildings that have been identified as requiring seismic upgrades

[51] Southwest Inspection & Testing, Inc., Geotechnical Investigation and Engineering Geologic Review, Comprehensive Modernizations at Belvedere Middle School, 312 N. Record Avenue, Los Angeles, CA 90063, July 5, 2017.
[52] Southwest Inspection & Testing, Inc., Geotechnical Investigation and Engineering Geologic Review, Comprehensive Modernizations at Belvedere Middle School, 312 N. Record Avenue, Los Angeles, CA 90063, July 5, 2017.

are addressed. The recommendations in this report are required to be followed to avoid impacts from seismic ground shaking (see Appendix E). Additionally, all buildings would be designed and constructed in accordance with Title 24 of the California Building Standards Code. Therefore, the Project would have a less than significant impact with regard to causing potential substantial adverse effects due to strong seismic ground shaking. Impacts would be less than significant and no further analysis is required.

iii. Seismic-related ground failure, including liquefaction?

Less Than Significant Impact. The Project site is within a seismically active area, as is the case with Los Angeles County and the larger region. Liquefaction is the loss of soil strength due to a buildup of pore-water pressure during severe ground shaking. Liquefaction must simultaneously have strong ground shaking, shallow groundwater, and loss relatively clean sands to occur. The Campus is not mapped within any liquefaction hazard zone. Historic shallow groundwater level at the Campus is on order of 200 feet as documented in the state's seismic hazard zones report. Due to the deep groundwater level, potential for liquefaction does not exist for this site.[53] Therefore, the Project would have a less than significant impact with regard to seismic-related ground failure, including liquefaction. Impacts would be less than significant and no further analysis is required.

iv. **Landslides?**

Less Than Significant Impact. The Campus is within a seismically active area. The Campus is not within any landslide hazard zone. Topography within the Campus and its close surroundings is relatively flat to gently sloping. There is no steep upsloping grade within immediate vicinity of the Campus.[54] Therefore, the Project would have a less than significant impact with regard to potential substantial adverse effects due to landslides. Impacts would be less than significant and no further analysis is required.

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

Construction Phase

Less Than Significant Impact – The Project would include building replacement, renovation, modernization, and reconfiguration of buildings on campus, which would require earth moving activities that could create the potential for erosion. During construction, the Project would be subject to a Stormwater Pollution Prevention Plan (SWPPP). The SWPPP would create a plan to reduce potential for erosion into the stormwater drains and would require the use of best management practices (BMPs) to be implemented during construction. Use of BMPs as designated within the SWPPP would reduce potential impact from soil erosion or the loss of topsoil. Therefore, the Project would have a less than significant impact with regard to resulting in substantial soil erosion during the construction phase. Construction impacts would be less than significant and no further analysis is required.

[53] Southwest Inspection & Testing, Inc., Geotechnical Investigation and Engineering Geologic Review, Comprehensive Modernizations at Belvedere Middle School, 312 N. Record Avenue, Los Angeles, CA 90063, July 5, 2017.

[54] Southwest Inspection & Testing, Inc., Geotechnical Investigation and Engineering Geologic Review, Comprehensive Modernizations at Belvedere Middle School, 312 N. Record Avenue, Los Angeles, CA 90063, July 5, 2017.

4. Environmental Checklist and Analysis

Operational Phase

Less Than Significant Impact – The Project would include building replacement, renovation, modernization, and reconfiguration of buildings on campus . During operation, the Campus would be paved over and thus not have a significant amount of topsoil exposed. Thus, soil erosion would be minimal during operations. Therefore, the Project would have a less than significant impact with regard to resulting in substantial soil erosion during the operational phase. Operational impacts would be less than significant and no further analysis is required.

c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?

Less Than Significant Impact. The Project site is not on a known active or potentially active fault zone. However, the Project site is within the highly seismic Southern California region within the influence of several faults that are considered to be active or potentially active. As stated above, the Project site is not subject to liquefaction or landslides. According to the Geotechnical Investigation and Engineering Geologic Review prepared pursuant to SC-GEO-1, the Project is also not subject to lateral spreading, subsidence, or collapse.[55] Construction would comply with all applicable state and local standards and guidelines. Therefore, the Project would have a less than significant impact with regard to being located on a geologic unit or soil that is unstable or that would become unstable as a result of the Project. Impacts would be less than significant and no further analysis is required.

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

Less Than Significant Impact. The Campus is currently developed with existing buildings and the Project would include building replacement, renovation, modernization, and reconfiguration of buildings on campus . Subsurface soils at shallow depths across the school campus had laboratory test results indicating very low expansion potentials. Accordingly, the Geotechnical Investigation and Engineering Geologic Review prepared pursuant to SC-GEO-1 determined that the existing soils are considered non-expansive.[56] Construction would comply with all applicable state and local standards and guidelines. Therefore, the Project would have a less than significant impact with regard to being located on expansive soil and creating substantial direct or indirect risks to life or property. Impacts would be less than significant and no further analysis is required.

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

No Impact. The Campus is currently connected to the existing Los Angeles County Department of Public Works sanitary sewer network and it would use the same sewer network after the Project is complete. The Project would not require the use of septic tanks or alternative wastewater disposal systems. Therefore, the Project would have no impact on, and would not be impacted by soils incapable of adequately supporting the

[55] Southwest Inspection & Testing, Inc., Geotechnical Investigation and Engineering Geologic Review, Comprehensive Modernizations at Belvedere Middle School, 312 N. Record Avenue, Los Angeles, CA 90063, July 5, 2017.
[56] Southwest Inspection & Testing, Inc., Geotechnical Investigation and Engineering Geologic Review, Comprehensive Modernizations at Belvedere Middle School, 312 N. Record Avenue, Los Angeles, CA 90063, July 5, 2017.

use of septic tanks or alternative wastewater disposal systems. No impact would occur and no further analysis is required.

f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less Than Significant Impact. According to the Phase I Cultural Assessment, the Project site contains older alluvial sediments that can contain significant fossil resources.[57] During construction, there is the potential for the discovery of fossils. SC-CUL-11, requires a paleontological monitor be retained to oversee ground-disturbing activities as determined by the scope of work and final grading plan. This standard condition would require construction activities to stop should a paleontological resource be found and allow for identification of potential resources. Therefore, with SC-CUL-11 the Project impacts to a unique paleontological resource, site, or unique geologic feature would be less than significant. Impacts would be less than significant and no further analysis is required.

[57] Envicom Corporation, Phase I Cultural Assessment for the Belvedere Middle School project, Los Angeles County, California, April 4, 2019.

4. Environmental Checklist and Analysis

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

Explanation:

The following analysis was completed using calculations from the California Emissions Estimator Model (CalEEMod) prepared by Envicom Corporation dated May 1, 2019, included in Appendix A.

LAUSD has SCs for minimizing impacts to greenhouse gas emissions. Applicable SCs related to greenhouse gas emissions impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-GHG-1	During operation, LAUSD shall perform regular preventative maintenance on pumps, valves, piping, and tanks to minimize water loss.
SC-GHG-5	LAUSD shall ensure that the designed time dependent valued energy shall be at least 10%, with a goal of 20% 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.
SC-USS-1	Implementation of SC-USS-1.

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

Less Than Significant Impact. The California Code of Regulations defines greenhouse gases (GHGs) to include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), sulfur hexafluoride (SF6), perfluorocarbons (PFCs), and hydrofluorocarbons (HFCs).[58] Because the warming potential of various identified GHGs differs, GHG emissions are commonly expressed in terms of carbon dioxide equivalents (CO_2e) that account for the volume and warming potential of each GHG generated by a particular emitter. The total GHG emissions from individual sources are then generally reported in metric tons (MT) and expressed as metric tons of carbon dioxide equivalents ($MTCO_2e$). Fossil fuel use in the transportation sector (on-road motor vehicles, off-highway mobile sources, and aircraft) is the single largest source of GHG emissions, accounting for half globally. Energy use associated with industrial and commercial land uses contribute approximately one quarter of global GHG emissions. Project GHG emissions estimates were derived using CalEEMod Version 2016.3.2;[59] data, results are provided annual output tables in Appendix A.[60]

[58] California Code of Regulations, Section 15364.5.
[59] CalEEMod was developed by the SCAQMD to provide a model that calculates both construction emissions and operational emissions from a variety of land use projects, providing estimates of the daily maximum and annual average emissions for criteria pollutants and GHG emissions.
[60] Envicom Corporation CalEEMod data reports for this project are dated 3/17/2016.

Construction GHG Emissions

Construction would result in the short-term generation of GHG emissions from equipment, the use of various materials (paint, asphalt, etc.) and the disposal of construction waste. Project construction-related GHG emissions were modeled by Envicom Corporation using CalEEMod with the results provided in **Table 4.VIII-1, Project Construction Greenhouse Gas Emissions**.

Table 4.VIII-1
Project Construction Greenhouse Gas Emissions

Year	Emissions (Metric Tons CO_2e)
2021	721.2
2022	764
Total	**1,485.2**
30 Year Annual Amortized Rate	**49.5**
Significance Threshold[a]	3,000

Source: CalEEMod Version 2016.3.2, A South Coast AQMD model; annual data provided in Appendix A.
(a) On December 5, 2008, the South Coast AQMD Governing Board adopted an Interim quantitative GHG Significance Threshold for industrial projects where the South Coast AQMD is the lead agency of 10,000 Metric Tons (MT) CO_2 equivalent/year. In September 2010, the CEQA Significance Thresholds GHG Working Group released revisions recommending a threshold of 3,000 MT CO_2e for any land use project.

As shown in Table 4.VIII-1, total construction-related GHG emissions generated over the course of the construction period would be approximately 1,485.2 Metric Tons (MT) of CO_2e. The South Coast AQMD GHG emissions analysis policy for construction activities is to amortize emissions over a 30-year lifetime. There are no locally adopted significance thresholds for GHG emissions. The South Coast AQMD CEQA Significance Thresholds GHG Working Group recommends a threshold of 3,000 MT CO_2e for land use projects. In the absence of a locally adopted numerical threshold of significance, Project related GHG emissions in excess of this recommended threshold are presumed to trigger a requirement for enhanced GHG reduction at the Project level. Consistent with South Coast AQMD GHG emissions analysis policy for construction activities, to amortize emissions over a 30-year lifetime, the Project's 30-year annual amortized GHG emission rate would be 49.5 MT CO_2e, well below the threshold of 3,000 MT. Therefore, construction GHG emissions would be less than significant. Construction impacts would be less than significant and no further analysis is required.

Operational GHG Emissions

Operation of the proposed Project would result in GHG emissions from mobile sources such as employee and goods transportation as well as on-site use of electricity, natural gas, water, landscaping equipment, and the generation of solid waste and wastewater. The generation of operational GHG emissions was calculated using CalEEMod as recommended by the South Coast AQMD. Operational GHG emissions are provided in **Table 4.VIII-2, Project Operational Greenhouse Gas Emissions**.

Table 4.VIII-2
Project Operational Greenhouse Gas Emissions

Consumption Source	Emissions (MT CO_2e tons/year)
Area Sources [(a)]	0
Energy Utilization	609.9
Mobile Source	0
Solid Waste Generation	102.3
Water Consumption	79.3
Subtotal	**791.5**
Annual Amortized Construction	49.5
Total	**841**
Significance Threshold [(b)]	3,000

Source: Envicom Corporation CalEEMod Version 2016.3.1, annual results provided in Appendix A.

(a) CO_2e emission levels from area sources (e.g., off-site electricity generation) due to the project are very small and round to zero.

(b) On December 5, 2008, the South Coast AQMD Governing Board adopted an Interim quantitative GHG Significance Threshold for industrial projects where the South Coast AQMD is the lead agency of 10,000 Metric Tons (MT) CO_2 equivalent/year. In September 2010, the South Coast AQMD CEQA Significance Thresholds GHG Working Group released revisions that recommended a threshold of 3,000 MT CO_2e for any land use project.

As shown in Table 4.VIII-2, once completed, Project operations would emit approximately 841 MT CO_2e annually.[61] There are no locally adopted significance thresholds for GHG emissions. The South Coast AQMD CEQA Significance Thresholds GHG Working Group recommends a threshold of 3,000 MT CO_2e for land use projects. In the absence of a locally adopted numerical threshold of significance, project related GHG emissions in excess of this recommended threshold presumably trigger a requirement for enhanced GHG reduction at the project level. As shown in Table 6, the Project's combined annual operational GHG emissions and annual amortized construction-related GHG emissions would be well below 3,000 MT CO_2e per year. Thus, operational GHG emissions would be less than significant. Operational impacts would be less than significant and no further analysis is required.

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

Less Than Significant Impact. The Project would include building replacement, renovation, modernization, and reconfiguration of buildings on campus. New construction will be required to comply with the California Green Building Standards Code (CALGreen), California Code of Regulations, Title 24, Part 11, which will result in buildings that are more energy efficient than existing ones built to previous state building codes. In addition, mobile source emissions and total GHG emissions shown in Table 4.VIII-2 would be well below significance thresholds. As such, the Project would be consistent with statewide goals and policies for energy efficiency aimed at reducing the generation of GHG emissions and would therefore avoid conflicting with GHG reduction plans or policies. The Project would not interfere with implementation of local or regional plans for achieving GHG reduction targets and impacts would be less than significant. Impacts would be less than significant and no further analysis is required.

[61] Including construction emissions annualized over a 30-year period.

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

Explanation:

The following analysis was completed using information from the Final Phase I ESA for Belvedere Middle School prepared by Tetra Tech, Inc. dated June 12, 2017, included in **Appendix F**.

LAUSD has SCs for minimizing impacts to hazards and hazardous materials. Applicable SCs related to hazards and hazardous materials impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-HAZ-4	The Construction Contractor shall comply with the following OEHS Site Assessment practices and requirements (as applicable): • District Specification Section 01 4524, Environmental Import / Export Materials Testing. • Removal Action Workplan or Remedial Activities Workplan. • California Air Resources Board Rule 1466. • Guidelines and Procedures to Address Polychlorinated Biphenyls (PCBs) in Building Materials - particularly applicable to buildings that were constructed or remodeled between 1959 and 1979. • Lead and asbestos abatement requirements identified by the Facilities Environmental Technical Unit (FETU) in the Phase I / Phase II, or abatement plan(s).

4. Environmental Checklist and Analysis

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

Less Than Significant Impact. As a school, the Project would not involve the production or use of a significant amount of hazardous chemicals. During construction and operation, the Project would use minimal amounts of hazardous materials that are involved in the construction of a building, such as paints and solvents, and maintenance of buildings, such as chemical cleaners. Use of hazardous materials would be in insignificant amounts and would be transported, used, and disposed of in accordance with applicable federal, state, and local regulations. The proper use of these materials for their intended purpose would not pose a significant risk to the public or environment.

Projects that involve earth-moving activities of more than 50 cubic yards of soil that contain identified toxic air contaminants (TACs) are subject to South Coast Air Quality Management (SCAQMD) Rule 1466. As the Project would involve earth-moving activities of more than 50 cubic yards, LAUSD would sample and test soils for the presence of TACs to determine if the Project is subject to SCAQMD Rule 1466. If TACs are found, LAUSD shall comply with all relevant and appropriate requirements of SCAQMD Rule 1466. Therefore, the Project would have a less than significant impact with respect to creating a significant hazard to the public or the environment through the routine transport, use or disposal of hazardous materials. Impacts would be less than significant and no further analysis is required.

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

Less Than Significant Impact. The Project will not be handling or transporting significant amounts of hazardous materials during construction or occupancy. The Project will properly store hazardous materials that are necessary to construct school buildings, such as paint, in sufficiently small quantities to not create a hazard and in accordance with federal, state, and local regulations. Therefore, the Project would have a less than significant impact with respect to creating a significant hazard involving the release of hazardous materials into the environment. Impacts would be less than significant and no further analysis is required.

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

Less Than Significant Impact. The Project would include building replacement, renovation, modernization, and reconfiguration of buildings on an existing school campus. Construction of the Project would involve the use of hazardous materials during construction, such as paints and solvents, and during operations, such as chemical cleaners. All hazardous materials that would be used for the Project would be stored in sufficiently small quantities to not create a hazard and in accordance with federal, state, and local regulations. Therefore, the Project would have a less than significant impact with respect to emitting hazardous emissions or hazardous materials within one-quarter mile of an existing or proposed school. Impacts would be less than significant and no further analysis is required.

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

Less Than Significant Impact. A database search was conducted for the Campus in the Final Phase I ESA for Belvedere Middle School prepared by Tetra Tech, Inc.[62] The Campus was listed on several databases with results of either no pertinent information, the site is permitted, the site has no violations found, or the site has disposed of asbestos-containing wastes. The database search also resulted in finding no indication of environmental liens, activity and use limitations, or engineering or institutional controls against the site. The Campus is not listed on the EDR Radius Map Report with Geocheck as having any violations, therefore the database listing is not considered to be a REC in connection with the site. Therefore, the Project would have a less than significant impact to being located on a site which is included on a list of hazardous materials sites resulting in creating a significant hazard to the public or the environment. Impacts would be less than significant and no further analysis is required.

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

No Impact. The Project site is not located within two miles of a public airport and would not result in a safety hazard for people residing or working in the Project area. The closest airport to the Campus is the El Monte Airport, which is over 8 miles away.[63] Therefore, the Project would have no impact with respect to posing a safety hazard or excessive noise from an airport for people residing or working in the Project area. No impact would occur and no further analysis is required.

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

No Impact. The Project site is not located along a disaster route, based on the Los Angeles County General Plan 2035 Disaster Routes Map, nor is it on a connecting street to a disaster route.[64] Further, as enrollment will not be increased with the Project, significant new traffic generation would not occur. Therefore, the Project would have no impact with respect to impairing implementation of or physically altering an adopted emergency response plan or emergency evacuation plan. No impact would occur and no further analysis is required.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?

No Impact. The Project site is in a densely developed urban area and is not within a fire hazard area.[65] Therefore, the Project would have no impact with respect to exposing people or structures to a significant risk of loss, injury, or death involving wildland fires. No impact would occur and no further analysis is required.

[62] Tetra Tech, Inc., Final Phase I ESA for Belvedere Middle School, 312 North Record Avenue, Los Angeles, California 90063, July 19, 2017.
[63] Los Angeles County, General Plan 2035, Figure 7.4: Airports / Airfields Map, July 2014.
[64] Los Angeles County, General Plan 2035, Figure 12.6: Disaster Routes Map, May 2014.
[65] Los Angeles County, General Plan 2035, Figure 12.5: Fire Hazard Severity Zones Policy Map, May 2014.

4. Environmental Checklist and Analysis

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
X. HYDROLOGY AND WATER QUALITY. Would the project:				
a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	☐	☐	☒	☐
b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
i) Result in substantial on- or offsite erosion or siltation;	☐	☐	☒	☐
ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;	☐	☐	☒	☐
iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☐	☒	☐
iv) Impede or redirect flood flows?	☐	☐	☒	☐
d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	☐	☐	☒	☐

Explanation:

LAUSD has SCs for minimizing impacts to hydrology and water quality. Applicable SCs related to hydrology and water quality impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-HWQ-1	LAUSD shall design and construct the project to meet or exceed the current and applicable stormwater guidelines. **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). These guidelines meet current post-construction Standard Urban Stormwater Mitigation Plan (SUSMP) and the mandated post-construction element of the NPDES program requirements.
SC-HWQ-2	LAUSD shall implement the applicable stormwater requirements during construction activities. **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.
SC-HWQ-3	LAUSD shall implement the following programs and procedures, as applicable: • Environmental Training Curriculum – a qualified environmental Monitor shall provide a worker's environmental awareness program that is prepared by LAUSD for the project. • Hazardous Waste Management Program (Environmental Compliance/Hazardous Waste). • Medical Waste Management Program. • Environmental Compliance Inspections. • Safe School Inspection Program. • Integrated Pest Management Program. • Fats Oil and Grease Management Program. • Solid Waste Management Program. • Other related programs overseen by OEHS.

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?

Construction Phase

Less Than Significant Impact. The Project would include building replacement, renovation, modernization, and reconfiguration of buildings on campus . Construction of the project would involve grading which would create the potential for discharge into surface or groundwater. The Project would be required to prepare a SWPPP which would implement BMPs that would be designed to reduce potential water quality or waste discharge impacts. As part of the approval process, the project would be subject to SC-HWQ-2, which requires a compliance checklist for stormwater requirements during construction, and SC-HWQ-3 which requires compliance with water quality programs and procedures to be implemented during construction and operation. Implementation of compliance with stormwater requirements would reduce impacts from construction to water quality. Therefore, impacts would be less than significant with respect to violating water quality standards or waste discharge requirements during construction. Construction impacts would be less than significant and no further analysis is required.

Operation Phase

Less Than Significant Impact. During operation, the Project would operate as a school and a majority of the Project site would be paved over. There is no surface water source on or adjacent to the Project site, and the paved nature of the campus would reduce potential for groundwater impacts. Upon approval of the Project, it would also be subject to SC-HWQ-1 which requires the project to be designed to meet or exceed the current and applicable stormwater guidelines. Implementation of SC-HWQ-1 would reduce potential operational impacts to stormwater quality. Therefore, impacts would be less than significant with respect to violating water quality standards or waste discharge requirements during operation. Operational impacts would be less than significant and no further analysis is required.

b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Less Than Significant Impact. The Project site is currently developed as a school campus. The Project would include building replacement, renovation, modernization, and reconfiguration of buildings on campus. As the Project site is currently paved and would be paved following the Project, the recharge to groundwater would not be significantly different than existing conditions. Therefore, the Project would have a less than significant impact with respect to decreasing groundwater supplies or interfering with groundwater recharge. Impacts would be less than significant and no further analysis is required.

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i) Result in substantial on- or offsite erosion or siltation;

Less Than Significant Impact. The Project site is currently developed as a school campus . There are no streams or rivers flowing through the Project site and impervious surfaces would be similar to existing conditions. Drainage at the site would be subject to SC-HWQ-1 and would have a similar drainage pattern to existing conditions. Therefore, the Project would have a less than significant impact with respect to altering the existing drainage pattern that would result in substantial on- or offsite erosion or siltation. Impacts would be less than significant and no further analysis is required.

ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;

Less Than Significant Impact. The Project site is currently developed as a school campus This Project includes replacement, renovation, modernization, and reconfiguration of buildings on campus. As the function, size, and location would all be similar to what currently exists on the Project site, the Project's drainage pattern and surface runoff would not substantially change. LAUSD would comply with County ordinances regulating drainage improvements and grading plans as they relate to construction of on-site improvements that affect drainage.[66] Compliance with these ordinances would

[66] Collaborative for High Performance Schools (CHPS). n.d. CHPS Criteria. Available at: https://chps.net/chps-criteria. Accessed January 8, 2019.

ensure that the proposed Project would not adversely affect the local drainage system in a manner that would result in substantial flooding on or off site. In addition, the LAUSD would incorporate CHPS standards and LAUSD BMPs to the extent feasible.[67] Therefore, the Project would have a less than significant impact with respect to the rate or amount of surface runoff in a manner that would result in flooding on- or offsite. Impacts would be less than significant and no further analysis is required.

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

Less Than Significant Impact. The Project site is currently developed as a school campus The Project includes replacement, renovation, modernization, and reconfiguration of buildings on campus. As the function, size, and location of the buildings would all be similar to what currently exists on the Project site, the Project's drainage pattern would not substantially change. Runoff water from the Project would be similar to existing conditions and the stormwater drainage systems would not be subject to substantially increased or polluted runoff. Therefore, the Project would have a less than significant impact with respect to creating or contributing runoff water which would exceed the capacity of exiting or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. Impacts would be less than significant and no further analysis is required.

iv) Impede or redirect flood flows?

Less Than Significant Impact. The Project site is currently developed as a school campus The Project includes replacement, renovation, modernization, and reconfiguration of buildings on campus. As the function, size, and location of the buildings would all be similar to what currently exists at the project site, the Project's drainage pattern would not substantially change. The drainage pattern and flood flows would be similar to what currently exists. The Project is not within a flood hazard zone and would not impede flood flows.[68] Therefore, the Project would have a less than significant impact with respect to impeding or redirecting flood flows. Impacts would be less than significant and no further analysis is required.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

No Impact. The Project site is not within a flood hazard, tsunami, or seiche zone.[69] Therefore, the Project would have no impact with respect to the risk of releasing pollutants due to Project inundation. No impact would occur and no further analysis is required.

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Less Than Significant Impact. The Project site is currently developed as a school campus. The Project would include replacement, renovation, modernization, and reconfiguration of buildings on campus. The overall water quality and drainage patterns would be similar to existing conditions. The Project would also be subject to SC-

[67] Ibid.
[68] Los Angeles County, General Plan 2035, Figure 12.2: Flood Hazard Zones Policy Map, April 2013.
[69] Los Angeles County, General Plan 2035, Figure 12.2: Flood Hazard Zones Policy Map, April 2013.
Los Angeles County, General Plan 2035, Figure 12.3: Tsunami Hazard Areas, May 2014.

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HWQ-1 through SC-HWQ-3 which would reduce impacts to water quality and groundwater. Therefore, the Project would have a less than significant impact and would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. Impacts would be less than significant and no further analysis is required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XI. LAND USE AND PLANNING. Would the project:				
a. Physically divide an established community?	☐	☐	☐	☒
b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☒	☐

Explanation:

a) Physically divide an established community?

No Impact. The Project site is currently developed as a school campus The Project site is within an established community, contained within existing fenced boundaries. The Project would involve modernization of the existing Campus and would not expand development outside of the current Campus boundary. Therefore, the Project would have no impact and would not physically divide an established community. No impact would occur and no further analysis is required.

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Less Than Significant Impact. The Project site is located fully within an existing middle school property and is within the Specific Plan area for the East Los Angeles 3rd Street Specific Plan. The Project would not construct or make alterations outside of the Campus. The Project site abuts East Cesar E. Chavez Avenue to the north, which is highlighted within the East Los Angeles Specific Plan as a corridor area that will facilitate complimentary mixed-use buildings. The Specific Plan strategy mainly applies to the commercial and mixed-use buildings along East Cesar E. Chavez Avenue and provides a vision and strategy for buildings within the Specific Plan. The upgrades to the school would include modernization of buildings, painting the outside of buildings, and various other upgrades, all of which would be made in compliance with local, state, and/or federal facilities requirements. The Los Angeles County Code and the East Los Angeles Specific Plan allows for schools on the Project site. The Project use is therefore consistent with County planning and zoning for the site. As allowed per Government Code Section 53094, in 2019 the LAUSD Board of Education adopted a resolution to exempt all LAUSD school sites from local land use regulations.[70] Therefore, the Project would have a less than significant impact and would not conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. Impacts would be less than significant and no further analysis is required.

[70] LAUSD. 2019. Board of Education Report. Report. 18/19 ed. Vol. 256. Los Angeles, CA: LAUSD.

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	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XII. MINERAL RESOURCES. Would the project:				
a. Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b. Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	☐	☐	☐	☒

Explanation:

a) Result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the state?

No Impact. The Project site is within the unincorporated Los Angeles County community of East Los Angeles. There are no known mineral resources on the site that would be a value to the region and residents of the state. Therefore, the Project would have no impact on the availability of a known mineral resource that would be a value to the region and residents of the state. No impact would occur and no further analysis is required.

b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

No Impact. The Project site is within the unincorporated Los Angeles County community of East Los Angeles. As shown within the Los Angeles County General Plan, Figure 9.6: Mineral Resources Map, the Campus is outside of any mineral resource zones or oil and gas resource zone.[71] Within the East Los Angeles 3rd Street Plan, the Specific Plan for the Campus, there is no mention of mineral resources. Therefore, the Project would have no impact on the availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan. No impact would occur and no further analysis is required.

[71] Los Angeles County, General Plan 2035, Figure 9.6: Mineral Resources, May 2014.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIII. NOISE. Would the project result in:				
a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or in other applicable local, state, or federal standards?	☐	☒	☐	☐
b. Generation of excessive groundborne vibration or groundborne noise levels?	☐	☒	☐	☐
c. For a project located within the vicinity of a private airstrip or 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?	☐	☐	☐	☒

Explanation:

The following analysis was completed using information from the Noise and Vibration Impact Analysis for The Belvedere Middle School Comprehensive Modernization Project prepared by Giroux & Associates dated June 22, 2019, included in **Appendix G**.

LAUSD has SCs for minimizing impacts to noise. Applicable SCs related to noise impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-N-1	LAUSD shall design new buildings and other noise-generating sources to include features such as sound walls, building configuration, and other design features that attenuate exterior noise levels on a school campus to less than 67 dBA L_{eq}.[72]
SC-N-2	LAUSD shall analyze the acoustical environment of the site (such as traffic) and the characteristics of planned building components (such as Heating, Ventilation, and Air Conditioning [HVAC]), and designs shall achieve interior classroom noise levels of less than 45 dBA L_{eq} with a target of 40 dBA L_{eq} (unoccupied), and a reverberation time 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. • New construction should achieve classroom acoustical quality consistent with the current School Design Guide and CHPS (California High Performance Schools) standard of 45 dBA L_{eq}. • New HVAC installations should be designed to achieve the lowest possible noise level consistent with the current School Design Guide. HVAC systems shall be designed so that noise from the system does not cause the ambient noise in a classroom to exceed the current School Design Guide and CHPS standard of 45 dBA L_{eq} • Modernization of existing facilities and/or HVAC replacement projects should improve the sound performance of the HVAC system over the existing system. • The District's purchase of new units should give preference to HVAC manufacturers that sell the lowest noise level units at the lowest cost. Existing HVAC units operating in excess of 45 dBA L_{eq} inside classrooms should be modified.
SC-N-4	LAUSD 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.

[72] L10 value represents the noise level that is exceeded 10% of the time or 6 minutes in an hour.

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SC-N-5	LAUSD shall require the Construction Contractor to minimize blasting for all demolition and construction activities, where feasible.
SC-N-6	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	Projects within 500 feet of a non-LAUSD sensitive receptor, such as a residence, shall be reviewed by OEHS to determine what, if any, feasible project specific noise reduction measures are needed. The Construction Contractor shall implement project specific noise reduction measures identified by OEHS. Noise reduction measures may include, but are not limited to, the following: <u>Source Controls</u> • Time Constraints – prohibiting work during sensitive nighttime hours. • Scheduling – performing noisy work during less sensitive time periods (on operating campus: delay the loudest noise generation until class instruction at the nearest classrooms has ended; residential: only between 7:00 AM and 7:00 PM). • Equipment Restrictions – restricting the type of equipment used. • Substitute Methods – using quieter methods and/or equipment. • Exhaust Mufflers – ensuring equipment has 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. <u>Path Controls</u> • Noise Barriers – semi-permanent or portable wooden or concrete barriers. • Noise Curtains – flexible intervening curtain systems hung from supports. • Enclosures – encasing localized and stationary noise sources. • Increased Distance – perform noisy activities farther away from receptors, including operation of portable equipment, storage and maintenance of equipment. <u>Receptor Controls</u> • Window Treatments – reinforcing the building's noise reduction ability. • Community Participation – open dialog to involve affected residents. • Noise Complaint Process – ability to log and respond to noise complaints. Advance notice of the start of construction shall be delivered to all noise sensitive receptors adjacent to the project area. The notice shall state specifically where and when construction activities will occur, and provide contact information for filing noise complaints with the Construction Contractor and the District. In the event of noise complaints noise shall be monitored from the construction activity to ensure that construction noise is not obtrusive.
SC-N-9	Construction Contractor shall ensure that LAUSD interior classroom noise and exterior noise standards are met to the maximum extent feasible, or that construction noise is not disruptive to the school environment, through implementation of noise control measures, as necessary.[73] Noise control measures may include, but are not limited to: <u>Path Controls</u> • Noise Attenuation Barriers[74] – Temporary noise attenuation barriers installed blocking the line of sight between the noise source and the receiver. Intervening barriers already present, such as berms or buildings, may provide sufficient noise attenuation, eliminating the need for installing noise attenuation barriers. <u>Source Controls</u> • 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 areas: only between 7:00 AM and 7:00 PM).

[73] The need for noise control measures depends on the type and quantity of equipment being used, the work being performed, and the proximity of the construction activity to active exterior use areas (e.g., playgrounds, athletic fields, etc.) or classrooms. For example, the need for noise control measures may be required if a major construction project (e.g. demolition of a building and/or construction of a new building) takes place on an active LAUSD campus.

[74] While the height and Sound Transmission Class (STC) rating of the Noise Attenuation Barrier needed will depend on the project specific conditions, an example of the specifications for a Noise Attenuation Barrier would be: Noise Attenuation Barriers shall be a minimum height of 12 feet and have a minimum Sound Transmission Class rating of 25 (STC-25).

	• Substitute Methods – using quieter methods and/or equipment. • Exhaust Mufflers – ensuring equipment has 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. • Quieter Backup Alarms – manually-adjustable or ambient sensitive types. If OEHS determines that the above noise reduction measures will not reduce construction noise to below the levels permitted by LAUSD's noise standards LAUSD shall mandate that construction bid contracts include the following receptor controls: <u>Receptor Controls</u> • Temporary Window Treatments – temporarily reinforcing the building's noise reduction ability. Temporary Relocation – in extreme otherwise unmitigable cases, students shall be moved to temporary classrooms / facilities away from the construction activity.
SC-AQ-2	Construction Contractor shall ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications, to ensure excessive emissions are not generated by unmaintained equipment.

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or in other applicable local, state, or federal standards?

Less Than Significant with Mitigation Incorporated.

<u>On Road Construction Noise</u>

The proposed Project would produce traffic noise. Estimates of traffic noise impacts would vary, depending upon the haul route and season. As construction truck haul routes have not been finalized, the Noise and Vibration Impact Analysis analyzed two different haul route scenarios. Two different scenarios during different seasons was also taken into consideration as truck haul route schedule is expected to change during when school is not in session.[75] For this analysis the two haul route scenarios are, 1) a haul route destined for the Puente Hills landfill, where trucks would travel along East Cesar E. Chavez Avenue to the Gage Avenue on-ramp to the SR 60 eastbound, and 2) a haul route destined for Scholl Canyon landfill, where trucks would travel along East Cesar E. Chavez Avenue to the Ford Boulevard on-ramp to the I-710 northbound. For this analysis, an average of 50 construction workers would be allowed on site during school operation (fall, winter and spring) and during summer months construction activities would increase to a maximum of 150 construction workers.

Land use compatibility noise thresholds are shown in the Noise and Vibration Impact Analysis as from the County of Los Angeles General Plan EIR. Exposures up to 65 dB CNEL for sensitive uses are considered conditionally acceptable if all measures to reduce such exposure have been taken. Noise levels above 70 dB CNEL are considered normally unacceptable except in unusual circumstances. These standards apply primarily to any outdoor uses such as recreational space.

As the number of construction workers would change based on the time of the year and whether school is in session, both scenarios were analyzed in **Table 4.XIII-1, School Year Construction Traffic Noise Impact Analysis**, and **Table 4.XIII-2, Summer Construction Traffic Noise Impact Analysis**.

[75] Giroux & Associates, Noise and Vibration Impact Analysis, The Belvedere Middle School Comprehensive Modernization Project, June 15, 2019.

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Table 4.XIII-1
School Year Construction Traffic Noise Impact Analysis
(CNEL in dBA at 50 feet from Centerline)

Roadway Segment		Existing	Exist+Proj SR 60	Exist+Proj I-710	Project Only Impact SR 60	Project Only Impact I-710
Cesar Chavez/	Gage Ave and Record Ave	57.0	57.8	57.3	0.8	0.4
	East of Record Ave	57.0	57.6	58.0	0.6	1.0
	West of Eastern Ave	57.4	57.9	58.3	0.5	0.9
	Eastern Ave-Humphreys Ave	57.6	57.9	58.1	0.2	0.4
	East of Humphreys Ave	58.0	58.2	58.4	0.2	0.4
	West of Ford Blvd	58.0	58.2	58.3	0.1	0.3
Gage Ave/	North of Cesar Chavez Ave	52.9	53.0	53.0	0.1	0.1
	Gage Ave-1st St	51.9	53.9	52.8	2.0	0.9
	1st St-3rd St	52.3	54.3	53.3	2.0	1.0
1St St/	West of Gage Ave	55.7	55.8	55.8	0.1	0.1
	East of Gage Ave	55.9	55.9	55.9	0.0	0.0
3rd St/	West of Gage Ave	55.1	55.3	55.3	0.2	0.2
	Gage Ave – SR 60 WB Ramp	56.0	56.5	56.2	0.4	0.2
Eastern Ave/	North of Cesar Chavez Ave	57.6	57.7	57.9	0.1	0.3
	South of Cesar Chavez Ave	57.1	57.2	57.2	0.2	0.2
Humphreys Ave/	I 710 SB Off Ramp	49.4	49.4	50.5	0.0	1.2
	Floral Dr-Cesar Chavez Ave	48.9	48.9	48.9	0.0	0.0
	South of Cesar Chavez Ave	48.0	48.0	48.0	0.0	0.0
Record Ave/	North of Cesar Chavez Ave	47.2	47.2	47.2	0.0	0.0
	South of Cesar Chavez Ave	46.5	53.3	53.3	**6.8**	**6.8**

Table 4.XIII-2
Summer Construction Traffic Noise Impact Analysis
(CNEL in dBA at 50 feet from Centerline)

Roadway Segment		Existing	Exist+Proj SR 60	Exist+Proj I-710	Project Only Impact SR 60	Project Only Impact I-710
Cesar Chavez/	Gage Ave and Record Ave				0.3	0.3
	East of Record Ave	56.0	56.5	56.5	0.5	0.5
	West of Eastern Ave	56.4	56.8	56.8	0.4	0.4
	Eastern Ave-Humphreys Ave	56.7	56.9	56.9	0.2	0.2
	East of Humphreys Ave	57.0	57.2	57.2	0.2	0.2
	West of Ford Blvd	57.0	57.2	57.2	0.1	0.1
Gage Ave/	North of Cesar Chavez Ave	51.9	52.0	52.0	0.1	0.1
	Gage Ave-1st St	50.9	51.7	51.6	0.8	0.7
	1st St-3rd St	51.4	52.2	52.1	0.8	0.8
1St St/	West of Gage Ave	54.7	54.8	54.8	0.1	0.1
	East of Gage Ave	55.0	55.0	55.0	0.0	0.0
3rd St/	West of Gage Ave	54.2	54.3	54.3	0.1	0.1
	Gage Ave – SR 60 WB Ramp	55.0	55.2	55.2	0.1	0.1
Eastern Ave/	North of Cesar Chavez Ave	56.7	56.7	56.7	0.1	0.1
	South of Cesar Chavez Ave	56.1	56.2	56.2	0.1	0.1
Humphreys Ave/	I 710 SB Off Ramp	48.4	48.4	48.4	0.0	0.0
	Floral Dr-Cesar Chavez Ave	47.9	47.9	47.9	0.0	0.0
	South of Cesar Chavez Ave	47.0	47.0	47.0	0.0	0.0
Record Ave/	North of Cesar Chavez Ave	46.2	46.2	46.2	0.0	0.0
	South of Cesar Chavez Ave	45.5	50.3	50.3	**4.8**	**4.8**

As shown in Tables 4.XIII-1 and 4.XIII-2, traffic volumes are generally already high in the area's urban setting, and because the Project would not result in many construction trips relative to existing traffic volumes, there is little noise impact from the Project trips along most of the analyzed roadway segments. However, Record Avenue currently carries very low traffic volumes. During the school year there are approximately 1,370 daily trips and during the summer the number decreases to 1,090 daily trips. Almost all Project construction traffic will utilize Record Avenue to access the site. The addition of 56-111 daily trips to the low traffic volumes creates a traffic noise impact that exceeds the +3 dBA CNEL threshold. For the school year, it is estimated that the

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Project traffic would create a +6.8 dBA CNEL increase and during the summer a +4.8 dBA CNEL increase. This impact would be observed by the residences are immediately west of Record Ave.

However, even the "with Project" construction traffic the noise levels along Record Avenue would be approximately 53 dBA CNEL when school is in session and only 50 dBA CNEL during the summer months. These noise levels are much less than the 65 dBA CNEL recommended compatibility threshold for both schools and residential uses. In addition, measured noise levels in the area were 65 dBA. This is likely because the traffic noise calculations only include vehicles on Record Avenue and do not factor in the residual noise from Cesar Chavez Avenue and extraneous noise sources associated with an urban environment. Therefore, because the "with Project" construction noise levels are less than the recommended noise compatibility threshold and less than the observed noise levels, the Project roadway impacts are considered to be less than significant.

Off-Road Construction Noise

Construction of the Project is planned to occur from Q2 2021 to the Q1 2025. This analysis uses equipment information provided for the air quality analysis.

Specific noise standards for construction activities pursuant to the Los Angeles County Code, chapter 12.08.440, are as shown below.

Noise Restrictions at Affected Structures. The contractor shall conduct construction activities in such a manner that the maximum noise levels at the affected buildings will not exceed those listed in the following schedule:

1. At Residential Structures.

   a. Mobile Equipment. Maximum noise levels from mobile equipment:

	Single-family Residential (dBA)	**Multi-family Residential (dBA)**	**Semi-residential/ Commercial (dBA)**
Daily, except Sundays and legal holidays, 7:00 a.m. to 8:00 p.m.	75	80	85
Daily, 8:00 p.m. to 7:00 a.m. and all day Sunday and legal holidays.	60	65	70

   b. Stationary Equipment. Maximum noise level for repetitively use of stationary equipment:

	Single-family Residential (dBA)	**Multi-family Residential (dBA)**	**Semi-residential/ Commercial (dBA)**
Daily, except Sundays and legal holidays, 7:00 a.m. to 8:00 p.m.	60	65	70
Daily, 8:00 p.m. to 7:00 a.m. and all day Sunday and legal holidays.	50	55	60

The Program EIR outlines the following LAUSD noise level thresholds for school sites according to Education Code Section 17215. LAUSD has established maximum allowable noise levels to protect students and staff from noise impacts. LAUSD's exterior noise standard is 67 dBA Leq and the interior noise standard is 45 dBA Leq. A noise level increase of 3 dBA or more over ambient noise levels is considered significant for existing

schools and would require mitigation to achieve levels within 2 dBA or pre-project ambient noise levels. Therefore, the Project would result in a significant long-term noise impact if:

- Exterior noise levels exceed 67 dBA Leq;
- Interior classroom noise levels exceed 45 dBA Leq; or
- Permanent increase noise levels at nearby noise-sensitive land uses exceed 3 dBA CNEL.

Table 4.XIII-3, Off-road Mobile Construction Equipment Noise Levels, identifies the highest (Lmax) noise levels associated with each type of the probable equipment fleet and the extent of use. Accounting for equipment usage, hourly levels are represented as Leq.

Table 4.XIII-3
Off-road Mobile Construction Equipment Noise Levels

Phase Name	Equipment	Measured Noise @ 50 feet (dBA)	Cumulative Noise Level @ 50 feet (dBA)[1]
Demolition	Excavators w/breaker	81	77
	Loader	79	75
	Bobcat/Skip Loader	80	76
	Water Truck	80	76
	Jack Hammer	89	82
	Crushing Equipment	89	89
Site Prep	Excavator	81	77
	Compactor	83	76
	Loader	79	75
	Skip Loader	80	76
	Water Truck	80	76
	Vibratory Rollers	80	76
	Trencher / Excavator	80	77
Building Construction	Impact Pile Driver, Sonic Pile Driver, Crane-Mounted Auger Drill, or Crane-Suspended Downhole Vibrator	84	77
	Concrete Pump	80	73
	Crane	81	73
	Fork Lift/Gradall	83	75
	Backhoe	78	74
	Air Compressor	78	74
Paving	Skip Loader	80	76
	Roller	80	73
	Paver	77	74
	Asphalt Trucks	81	74
	Water Truck	80	76

Source: Source: FHWA's Roadway Construction Noise Model, 2006.

[1] Estimates take into account the fraction of time each piece of equipment is operating at full power during a construction operation.

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Since most construction equipment is mobile, the corresponding threshold of significance used in the noise analysis is not to exceed Leq noise level of 75 dBA at a noise-sensitive use. Ambient noise levels in the Project site vicinity range from 68-74 dBA Leq. **Table 4.XIII-4, Loudest Construction Equipment Noise at Closest Off-Site Sensitive Uses,** shows the distance attenuation and ambient noise level associated with each receptor location.

Table 4.XIII-4
Loudest Construction Equipment Noise at Closest Off-Site Sensitive Uses

Sensitive Receptor	To Closest Campus Structure (feet)	Attenuation due to distance (dBA Leq)	Ambient Noise Level (dBA Leq)
Residents to the east across Record Ave	120	-8	65
Residents to the north across Cesar Chavez	270	-15	65
Residents to the south across Michigan Ave	230	-13	69
Residents to the east across San Carlos St	150	-10	65
On-Site Classrooms	20	+8	65-69

Using the information found in Table 4.XIII-3 and Table 4.XIII-4, **Table 4.XIII-5, Unmitigated Construction Noise Exceeding Threshold,** calculates the noise level at each receptor adjusting for distance attenuation. As shown, construction noise for mobile equipment is not expected to exceed the 75 dBA Los Angeles construction threshold for mobile equipment at the closest off-site homes. However, the school itself will incur noise which could interrupt the educational environment. As shown, in the absence of mitigation, construction noise could be as much as 23 dBA higher than the LAUSD threshold of 67 dBA Leq at on-site classrooms and offices.

Table 4.XIII-5
Unmitigated Construction Noise Exceeding Threshold

Phase Name	Equipment	Record Ave Homes (dBA Leq)	Exceeds 75 dBA Leq Threshold?	Cesar Chavez Homes (dBA Leq)	Exceeds 75 dBA Leq Threshold?	Michigan AveHomes (dBA Leq)	Exceeds 75 dBA Leq Threshold?	San Carlos St Homes (dBA Leq)	Exceeds 75 dBA Leq Threshold?	On-Site Class-rooms	Exceeds 67 dBA Leq Threshold?
Demolition	Excavators w/breaker	69	no	62	no	64	no	67	no	85	yes
	Loader	67	no	60	no	62	no	65	no	83	yes
	Bobcat/Skip	68	no	61	no	63	no	66	no	84	yes
	Water Truck	68	no	61	no	63	no	66	no	84	yes
	Jack Hammer	74	no	67	no	69	no	72	no	90	yes
Site Prep	Excavator	69	no	62	no	64	no	67	no	85	yes
	Compactor	68	no	61	no	63	no	66	no	84	yes
	Loader	67	no	60	no	62	no	65	no	83	yes
	Skip Loader	68	no	61	no	63	no	66	no	84	yes
	Water Truck	68	no	61	no	63	no	66	no	84	yes
	Vibratory Rollers	68	no	61	no	63	no	66	no	84	yes
	Trencher / Excavator	69	no	62	no	64	no	67	no	85	yes
Building Construct	Impact Pile Driver, Sonic Pile Driver, Crane-Mounted Auger Drill, or Crane-Suspended Downhole Vibrator	69	no	62	no	64	no	67	no	85	yes
	Concrete Pump	65	no	58	no	60	no	63	no	81	yes
	Crane	65	no	58	no	60	no	63	no	81	yes
	Forklift/Gradall	67	no	60	no	62	no	65	no	83	yes
	Backhoe	66	no	59	no	61	no	64	no	82	yes
	Air Compressor	66	no	59	no	61	no	64	no	82	yes
Paving	Skip Loader	68	no	61	no	63	no	66	no	84	yes
	Roller	65	no	58	no	60	no	63	no	81	yes
	Paver	66	no	59	no	61	no	64	no	82	yes
	Asphalt Truck	66	no	59	no	61	no	64	no	82	yes
	Water Truck	68	no	61	no	63	no	66	no	84	yes

Because construction activities would elevate ambient noise levels above the LAUSD exterior noise level (67 dBA Leq), as well as exceed the County's threshold of more than a 5 dBA increase at off-site receptors, mitigation is required. Without mitigation the proposed Project would result in a potentially significant construction noise impact related to on-site construction equipment noise.

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The LAUSD includes Standard Conditions to mitigate noise impacts. Standard conditions SC-N-1 and SC-N-2 require designing of the Project to ensure acceptable exterior and interior noise levels. Standard conditions SC-N-4 through SC-N-9, require site-specific noise control measures to be implemented during construction. The SC's are further expanded on in the Noise and Vibration Study through mitigation measures, **MM-NOI-1 and MM-NOI-2**, to reduce all increases in noise levels at on-site receptors to the maximum feasible degree. These measures include installation of exhaust mufflers, proper maintenance of construction equipment, and the use of noise barriers. Absorptive noise mufflers are commercially available and can feasibly reduce noise emitted by heavy-duty construction equipment. The City of Los Angeles recognizes that the use of mufflers can achieve noise reductions of up to 3 dBA (City of LA, 2006).[76] In addition, installation of a temporary 15-foot high noise barrier with acoustical blankets with a minimum sound transmission class (STC) of 25 and noise reduction coefficient of 0.75 (e.g., 1" plywood with acoustical blankets or aluminum sheets with a thickness of at least 0.125 inches) can reduce noise levels by up to 20 dBA. Therefore, implementation of MM-NOI-1 and MM-NOI-2, would reduce Project-related construction noise by a total of 23 dBA. Impacts would be less than significant with mitigation and no further analysis is required.

MM-NOI-1: The Project contractor shall use power construction equipment with state-of-the art noise shielding and muffling devices capable of attenuating sound by 3 dB(A) or more.

MM-NOI-2: Barriers such as flexible sound control curtains shall be erected between the proposed Project and adjacent sensitive receptors located in nearby residences and active classrooms to minimize the amount of noise during construction. These temporary sound barriers shall be 15 feet high with a minimum STC rating of 25 and capable of achieving a sound attenuation of at least 20 dBA. If not feasible, construction activities requiring such equipment will be scheduled during breaks, after school, or when school is not in session.

As shown in **Table 4.XIII-6, Mitigated Construction Noise Exceeding Threshold**, with the implementation of MM-NOI-1 and MM-NOI-2, construction noise levels would be reduced to acceptable levels. Therefore, impacts would be less than significant with respect to temporary increases in ambient noise levels.

[76] United Muffler Corp., Accessed on September 26, 2019 at: https://www.unitedmuffler.com/.

Table 4.XIII-6
Mitigated Construction Noise Exceeding Threshold (MM NOI-1 and MM NOI-2)

Phase Name	Equipment	Record Ave Homes (dBA Leq)	Exceeds 70 dBA Leq Threshold?	Cesar Chavez Homes (dBA Leq)	Exceeds 70 dBA Leq Threshold?	Michigan Ave Homes (dBA Leq)	Exceeds 74 dBA Leq Threshold?	San Carlos St Homes (dBA Leq)	Exceeds 70 dBA Leq Threshold?	On-Site Classrooms	Exceeds 67 dBA Leq Threshold?
Demolition	Excavators w/breaker	50	no	43	no	45	no	48	no	62	no
	Loader	48	no	41	no	43	no	46	no	60	no
	Bobcat/Skip	49	no	42	no	44	no	47	no	61	no
	Water Truck	49	no	42	no	44	no	47	no	61	no
	Jack Hammer	58	no	51	no	53	no	56	no	67	no
Site Prep	Excavator	50	no	43	no	45	no	48	no	62	no
	Compactor	52	no	45	no	47	no	50	no	61	no
	Loader	48	no	41	no	43	no	46	no	60	no
	Skip Loader	49	no	42	no	44	no	47	no	61	no
	Water Truck	49	no	42	no	44	no	47	no	61	no
	Vibratory Rollers	49	no	42	no	44	no	47	no	61	no
	Trencher / Excavator	49	no	42	no	44	no	47	no	62	no
Building Construct	Impact Pile Driver, Sonic Pile Driver, Crane-Mounted Auger Drill, or Crane-Suspended Downhole Vibrator	53	no	46	no	48	no	51	no	62	no
	Concrete Pump	49	no	42	no	44	no	47	no	58	no
	Crane	50	no	43	no	45	no	48	no	58	no
	Forklift/Gradall	52	no	45	no	47	no	50	no	60	no
	Backhoe	47	no	40	no	42	no	45	no	59	no
	Air Compressor	47	no	40	no	42	no	45	no	59	no
Paving	Skip Loader	49	no	42	no	44	no	47	no	61	no
	Roller	49	no	42	no	44	no	47	no	58	no
	Paver	46	no	39	no	41	no	44	no	59	no
	Asphalt Truck	50	no	43	no	45	no	48	no	59	no
	Water Truck	49	no	42	no	44	no	47	no	61	no

Stationary Source Operational Noise

The school enrollment and use are not expected to increase as a result of Project implementation. The school buzzers and bells, outdoor activities and student pick-up and drop-off times would remain the same as current conditions. Outdoor recreational activities would also remain the same. No mobile source impact would occur.

Heating, ventilation and air conditioning (HVAC) systems could be different as a result of updated equipment and addition of new structures, but these would be comparable or quieter than other, similar sources at the existing campus and would not result in notable changes on campus. Additionally, HVAC noise would be considerably lower than ambient noise levels, which are dominated by traffic in the Project urban environs. The Project would also be required to comply with SC-N-1 and SC-N-2, which would require design elements to ensure noise is at acceptable levels. Stationary source noise increases would be less than significant.

b) Generation of excessive groundborne vibration or groundborne noise levels?

Less Than Significant with Mitigation Incorporated

On-Road Construction Vibration

Delivery and haul trucks would travel to and from the Project site throughout the construction period and may create travel-related vibration. A typical heavy construction truck may generate vibration of approximately 0.0027 in/sec at a location that is 50 feet from the truck. However, according to the Federal Transit Administration (FTA), typical road traffic-induced vibration levels are unlikely to be perceptible by people, and it is also unusual for vibration, even from sources such as buses and trucks, to be perceptible, even in locations close to major roads[77]. Because this Project is located in a busy industrialized urban area, localized traffic will mask any potential Project impacts.

Buildings along the construction haul route are typically at least 25 feet from the center of the nearest travel lane, taking into consideration sidewalks, setbacks, and/or on-street parking. These structures and uses may experience groundborne vibration levels of approximately 0.076 in/sec which is below the fragile building damage threshold criterion of 0.2 in/sec for fragile buildings. This level of vibration would also be below the human annoyance threshold of 0.240 in/sec. Therefore, Project construction traffic would negligibly impact vibration levels in the Project vicinity, and vibration impacts due to on-road travel would be less than significant for building damage and human annoyance.

Off-Road Construction Vibration

A vibration descriptor commonly used to determine structural damage is the peak particle velocity (ppv) which is defined as the maximum instantaneous positive or negative peak of the vibration signal, usually measured in in/sec. The range of such vibration is shown below in **Table 4.XIII-7, Human Response to Transient Vibration**.

[77] FTA "Transit Noise and Vibration Assessment," page 7-1, May 2006.

Table 4.XIII-7
Human Response To Transient Vibration

Average Human Response	ppv (in/sec)
Severe	2.00
Strongly perceptible	0.90
Distinctly perceptible	0.24
Barely perceptible	0.03

Source: Caltrans Transportation and Construction Vibration Guidance Manual, 2013.

Over the years, numerous vibration criteria and standards have been suggested by researchers, organizations, and governmental agencies. According to Caltrans, the threshold for structural vibration damage for modern structures is 0.5 in/sec for intermittent sources, which include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment. The American Association of State Highway and Transportation Officials (AASHTO) (1990) identifies maximum vibration levels for preventing damage to structures from intermittent construction or maintenance activities for residential buildings in good repair with gypsum board walls to be 0.4–0.5 in/sec. The damage threshold criterion of 0.2 in/sec is appropriate for older fragile buildings (typically historic). Below this level there is virtually no risk of building damage. Although the structures adjacent to the proposed Project are not considered fragile, to be conservative, the lower damage threshold of 0.2 in/sec was used for this analysis. The predicted vibration levels generated by construction equipment anticipated for use are shown below in **Table 4.XIII-8, Estimated Vibration Levels During Project Construction.**

Table 4.XIII-8
Estimated Vibration Levels During Project Construction

Equipment	PPV at 10 ft (in/sec)	PPV at 15 ft (in/sec)	PPV at 25 ft (in/sec)	PPV at 50 ft (in/sec)	PPV at 75 ft (in/sec)	PPV at 100 ft (in/sec)	PPV at 200 ft (in/sec)
Large Bulldozer	0.352	0.191	0.089	0.032	0.017	0.011	0.004
Loaded trucks	0.300	0.163	0.076	0.027	0.015	0.010	0.003
Jackhammer	0.138	0.075	0.035	0.012	0.007	0.004	0.002
Small Bulldozer	0.012	0.006	0.003	0.001	0.001	0.000	0.000
Auger/drill rigs	0.352	0.191	0.089	0.032	0.017	0.011	0.004
Pile Drive Impact	2.544	1.385	0.644	0.228	0.124	0.081	0.028
Pile Drive Sonic	0.672	0.366	0.170	0.060	0.033	0.021	0.007
Hoe ram	0.352	0.191	0.089	0.032	0.017	0.011	0.004
Auger/drill rigs	0.352	0.191	0.089	0.032	0.017	0.011	0.004

Source: FHWA Transit Noise and Vibration Impact Assessment.

The vibration level of a large bulldozer at 25 feet would be 0.089 in/sec. In order to exceed 0.2 in/sec threshold, a large bulldozer needs to be as close as 15 feet from the offsite structures. The necessary setback distance to avoid structural damage for planned construction equipment is shown in **Table 4, XIII-9, Minimum Setback Distance for Construction Equipment**.

4. Environmental Checklist and Analysis

Table 4.XIII-9
Minimum Setback Distance for Construction Equipment

Equipment	Minimum Distance to Clear Vibration Damage Threshold (0.2 in/sec PPV)
Large Bulldozer	15
Loaded trucks	15
Jackhammer	10
Small Bulldozer	10
Auger/drill rigs	10
Pile Drive Impact	75
Pile Drive Sonic	25
Hoe ram	15
Auger/drill rigs	15

Construction activities associated with the proposed Project would have the potential to impact the existing school buildings and surrounding offsite structures. Although the exact location of equipment is not known, if it were to be very close to existing structures it could result in a significant impact. Although the proposed Project would require compliance with SC-N-6 and SC-N-7, impacts may not be reduced to less than significant, particularly if impact pile driving is necessary. SC-N-6 requires that further evaluation occur and mitigation measures be identified, but these solutions are not known at this time. Therefore, impacts are assumed to be potentially significant, and the mitigation provided below would be required in order to reduce impacts to below the significance threshold.

The nearest off-campus sensitive receptors would be well beyond the damage threshold; thus no significant impact would occur to offsite buildings. Only on-campus structures may be impacted by construction vibration. Operation of large heavy construction equipment (pile drivers, large bulldozers or loaded trucks) close to adjacent buildings may exceed the FTA's 0.2 in/sec criteria threshold and may result in vibration-induced damage to some Campus building façades, which may require patching and repairs to be conducted by LAUSD.

In addition to compliance with LAUSD Standard Conditions of Approval SC-N-8 (vibration structural damage), the following mitigation, **MM-NOI-3** and **MM-NOI-4**, is required to ensure there is no structural damage to existing campus structures. Impacts would be less than significant with mitigation and no further analysis is required.

MM-NOI-3: To avoid structural damage, when the construction equipment is within 15 feet of existing school buildings, large construction equipment (greater than 300 horsepower), such as large bulldozer and loaded trucks, should be replaced with smaller equipment (less than 300 horsepower) when feasible.

MM-NOI-4: A sonic pile driver shall be used in place of an impact pile driver to reduce noise and vibration during pile drilling/driving activities.

Operational Vibration

The proposed Project is a comprehensive modernization of an existing school campus, and there would be no significant vibration-generating sources during ongoing operations.

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No Impact. The closest airport to the Project site is the El Monte Airport, which is located over 8.5 miles away.[78] The Project site is not located within the vicinity of a private airstrip or an airport land use plan. Therefore, the Project would have no impact and would not expose people residing or working the Project area to excessive noise levels from an airstrip or airport. No impact would occur and no further analysis is required.

[78] Los Angeles County, General Plan 2035, Figure 7.4: Airports/Airfields Map, July 2014.

4. Environmental Checklist and Analysis

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XIV. PEDESTRIAN SAFETY. Would the project:				
a. Substantially increase vehicular and/or pedestrian safety hazards due to a design feature or incompatible uses?	☐	☐	☒	☐
b. Create unsafe routes to schools for students walking from local neighborhoods?	☐	☐	☒	☐
c. Be located on a site that is adjacent to or near a major arterial roadway or freeway that may pose a safety hazard?	☐	☐	☒	☐

Explanation:

The following analysis was completed using information from the Site Circulation Report for Belvedere Middle School prepared by LIN Consulting, Inc. dated October 26, 2018, included in Appendix H.

LAUSD has SCs for minimizing impacts to pedestrian safety. Applicable SCs related to pedestrian safety impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-T-4	LAUSD shall require its Construction Contractors to submit a Construction Worksite Traffic Control Plan to OEHS for review prior to construction. The plan will show the location of any haul routes, hours of operation, protective devices, warning signs, access to abutting properties and applicable transportation related safety measures as required by local and State agencies. LAUSD shall encourage its Construction Contractor to limit construction-related trucks to off-peak commute periods.

a) Substantially increase vehicular and/or pedestrian safety hazards due to a design feature or incompatible uses?

Less Than Significant Impact. The Project would make improvements to existing buildings but would not make changes to the adjacent roadways. The Project site is generally bounded by East Cesar E. Chavez Avenue to the north, Michigan Avenue to the south, North Record Avenue to the west, and San Carlos Street to the northeast. According to the Site Circulation Report, the existing circulation system causes backups during the drop-off and pick-up times along Michigan Avenue and North Record Avenue.[79] Sidewalks along the Campus exist on both sides of East Cesar E. Chavez Avenue, North Record Avenue, and Michigan Avenue within the school zone. There is no sidewalk for approximately 250 feet on the northeast side of San Carlos Street from the intersection of East Cesar E. Chavez Avenue and San Carlos Street. Pedestrian only access to the school is available along San Carlos Street. Impacts would be less than significant and no further analysis is required.

There would be no changes made to the existing sidewalks or to driveway locations around the Campus. Although during construction, there may be temporary blockage of sidewalks or streets, Standard Condition of Approval SC-T-4 would require a worksite traffic control plan to ensure that there is safe movement around

[79] LIN Consulting, Inc., Site Circulation Report, LAUSD School Modernization Project – Belvedere Middle School, October 26, 2018.

the Project site. Therefore, the Project would have a less than significant impact with respect to vehicular and/or pedestrian safety hazards due to a design feature or incompatible uses.

b) Create unsafe routes to schools for students walking from local neighborhoods?

Less Than Significant Impact. The Campus currently has sidewalks on both sides of the abutting roadways within the school zone: East Cesar E. Chavez Avenue, North Record Avenue, and Michigan Avenue. San Carlos Street has no sidewalk on the northeast side for approximately 250 feet just south of East Cesar E. Chavez Avenue. According to the Site Circulation Report, approximately 75 percent of students walk to and from campus. During construction, implementation of the Standard Conditions of Approval, particularly SC-T-4, which would require a worksite traffic control plan to ensure safety measures are in place for pedestrians, which would ensure safe student access to and from the Campus. Upon completion, the Project would not change, create, or delete any routes for students walking from local neighborhoods. Therefore, the Project would have a less than significant impact with respect to creating unsafe routes to school for students walking from local neighborhoods. Impacts would be less than significant and no further analysis is required.

c) Be located on a site that is adjacent to or near a major arterial roadway or freeway that may pose a safety hazard?

Less Than Significant Impact. The Project site is adjacent to East Cesar E. Chavez Avenue, which is classified as a Secondary Highway with two lanes in each direction and is the largest of the streets surrounding the Project site, the other streets only have one lane in each direction. During the afternoon bell period, a high volume of students cross the intersection of North Record Avenue and East Cesar E. Chavez Avenue and North Record Avenue and Michigan Avenue. Each intersection has a crossing assistant before and after school to assist students in safely crossing, and this program would continue during construction and operation of the proposed Project. As the Project involves the modernization of Belvedere MS through remodeling, demolition, and construction of several buildings on an existing Campus, no new safety issues with roadways or freeways would occur. Therefore, the Project would have a less than significant impact and would not pose a safety hazard due to its location adjacent to a major arterial roadway. Impacts would be less than significant and no further analysis is required.

4. Environmental Checklist and Analysis

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XV. POPULATION AND HOUSING. Would the project:				
a. Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☒	☐
b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

Explanation:

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

Less Than Significant Impact. The Project involves the modernization of Belvedere MS through building replacement, renovation, modernization, and reconfiguration of buildings on campus. Belvedere MS currently serves the existing surrounding neighborhood. The proposed Project would not increase the student population but is intended to provide appropriate facilities for the current student capacity. As the Project would be encompassed within the Campus and not make alterations outside of the Campus, nor create new homes, businesses, or infrastructure, and enrollment would not increase, no population increase would occur as a result of the Project. Therefore, the Project would result in a less than significant impact and would not induce substantial unplanned population growth. Impacts would be less than significant and no further analysis is required.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. The Project involves the modernization of Belvedere MS through building replacement, renovation, modernization, and reconfiguration of buildings on campus. All construction for the Project would be limited to the Campus and no people or housing would be displaced. Therefore, the Project would not displace substantial numbers of existing people or housing, and no impact would occur. Impacts would be less than significant and no further analysis is required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVI. PUBLIC SERVICES. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
a. Fire protection?	☐	☐	☒	☐
b. Police protection?	☐	☐	☒	☐
c. Schools?	☐	☐	☐	☒
d. Parks?	☐	☐	☐	☒
e. Other public facilities?	☐	☐	☐	☒

Explanation:

LAUSD has SCs for minimizing impacts to public services. Applicable SCs related to public services impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-PS-1	If necessary, LAUSD shall: 1. Have local fire and police jurisdictions review all construction and site plans prior to the State Fire Marshall's final approval. 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.
SC-PS-2	LAUSD shall implement emergency preparedness and response procedures in all schools as required in LAUSD References, Bulletins, Safety Notes, and Emergency Preparedness Plans.

a) Fire protection?

Less Than Significant Impact. The Project site is within the Los Angeles County Fire Department (Fire Department) District 3.[80] The nearest Fire Department station is Station 1, which is located at 1108 North Eastern Avenue, Los Angeles, CA 90063, approximately 1 mile away.[81] Station 3 is the next closest station approximately 1.2 miles away. If approved, the Project would be required to comply with the Fire Code and Fire Department standards in effect at the time of the Project development, including building specifications and other plan check and design review requirements. New building and remodeled components of the Project would be constructed to the latest Fire Codes applicable. Further, SC-PS-1 and SC-PS-2 would further improve fire safety. The Project is currently served by the Fire Department and is not proposing or expecting to increase student enrollment, thus it would require similar service to what currently exists. Therefore, the Project would have a less than significant impact with regard to fire protection services. Impacts would be less than significant and no further analysis is required.

[80] Los Angeles County, General Plan 2035, Figure 12.7: Fire Department Battalions and Stations, May 2014.
[81] County of Los Angeles Fire Department, Search Results, Accessed on February 13, 2019 at: https://locator.lacounty.gov/fire/Search?find=&near=312+North+Record+Avenue%2C+Los+Angeles%2C+CA%2C+90063&cat=&tag=&loc=&lat=34.039654850839874&lon=-118.1820508752492.

4. Environmental Checklist and Analysis

b) Police protection?

Less Than Significant Impact. The Project site is within the Los Angeles County Sheriff Department (Sheriff Department) service area.[82] The Sheriff Department station that serves the Project site is approximately 2.4 miles from the Project site at 5019 East Third Street, Los Angeles, CA 90022.[83] As the Project is currently served by the Sheriff Department and is not proposing or expecting to increase student enrollment, it would require similar service to what currently exists. Further, SC-PS-1 and SC-PS-2 would further improve security. Therefore, the Project would have a less than significant impact on police protection services. Impacts would be less than significant and no further analysis is required.

c) Schools?

No Impact. The Project is the modernization of an existing school where student capacity will not increase. Thus, the Project would not require or result in the demand for new school facilities. The Project would have no impact on school services. No impact would occur and no further analysis is required.

d) Parks?

No Impact. The nearest park to the Project site is Eugene A. Obregon Park, which is less than 1,000 feet to the southwest. The Project site itself has a large athletic field, which would be expanded as part of the Project, east of the school buildings. As the Project would increase the size of the athletic field, build a new gymnasium, and is not proposing to increase student enrollment or create population growth, the demand for parks would not change as a result of the project. Pursuant to California Education Code Section 38131.b, also known as the Civic Center Act, school facilities would be available during off-school hours for permitted use by public organizations which would add to the available recreation space in the community. With the availability of shared-use open space for recreation onsite, the Project is anticipated to have a beneficial effect on the community. Therefore, the Project would have no impact on park service ratios. No impact would occur and no further analysis is required.

e) Other public facilities?

No Impact. The Project is not proposing to increase student enrollment, and would thus not increase demand for public facilities. Therefore, the Project would have no impact on other public facilities. No impact would occur and no further analysis is required.

[82] Los Angeles County, General Plan 2035, Figure 12.8: Sheriff's Department Service Areas, May 2014.
[83] Los Angeles County Sheriff's Department, East Los Angeles Station, Accessed on February 13, 2019 at: http://shq.lasdnews.net/pages/patrolstation.aspx?id=ELA.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVII. RECREATION. Would the project:				
a. Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☐	☒
b. Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?	☐	☐	☒	☐

Explanation:

a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

No Impact. The Project site is located within the 2-mile radius of a Community Park and the 0.5-mile radius of a neighborhood park.[84] As for the Project itself, it would be building a new gymnasium and expanding the existing athletic fields. The Project is not proposing to increase student enrollment. With additional recreational facilities being built as part of the Project, no increase in student enrollment and no effect on population growth, the Project would not increase demand for parks or other recreational facilities. Pursuant to California Education Code Section 38131.b, also known as the Civic Center Act, school facilities would be available during off-school hours for permitted use by public organizations which would add to the available recreation space in the community. With the availability of shared-use open space for recreation onsite, the Project is anticipated to have a beneficial effect on the community. Therefore, the Project would have no impact or create substantial physical deterioration of existing parks or recreational facilities. No impact would occur and no further analysis is required.

b) Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?

Less Than Significant Impact. The Project includes replacement of a gymnasium and expansion of the athletic fields, the impacts of which is discussed throughout this document. The construction and expansion of these recreational facilities would reduce impacts to other recreational facilities outside of the Campus and thus would not require the construction or expansion of recreational facilities outside of the Campus. Therefore, the Project would have a less than significant impact and would not require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment. Impacts would be less than significant and no further analysis is required.

[84] Los Angeles County, General Plan 2035, Figure 10.3: Community, Neighborhood and Pocket Park Service Radius Map, May 2014.

4. Environmental Checklist and Analysis

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XVIII. TRANSPORTATION AND CIRCULATION. Would the project:				
a. Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	☐	☐	☒	☐
b. Conflict or be inconsistent with CEQA Guidelines section 15064.3(b), which pertains to vehicle miles travelled?	☐	☐	☒	☐
c. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☒	☐
d. Result in inadequate emergency access?	☐	☐	☒	☐

Explanation:

The following analysis was completed using information from the Site Circulation Report for Belvedere Middle School prepared by LIN Consulting, Inc. dated October 26, 2018 and the Construction Traffic Analysis for the Belvedere Middle School Comprehensive Modernization Project prepared by Gibson Transportation Consulting, Inc. dated June 3, 2019, included in **Appendix I** .

LAUSD has SCs for minimizing impacts to transportation and circulation. Applicable SCs related to transportation and circulation impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-T-2	LAUSD shall implement the applicable vehicular access and parking design guidelines during the planning process. **School Design Guide** Vehicular access and parking shall comply with the Vehicular Access and Parking guidelines of the School Design Guide. The Design Guide contains the following regulations related to traffic: • Parking Space Requirements • General Parking Guidelines • Vehicular Access and Pedestrian Safety • Parking Structure Security
SC-T-4	LAUSD shall require its Construction Contractors to submit a Construction Worksite Traffic Control Plan to OEHS for review prior to construction. The plan will show the location of any haul routes, hours of operation, protective devices, warning signs, access to abutting properties and applicable transportation related safety measures as required by local and State agencies. LAUSD shall encourage its Construction Contractor to limit construction-related trucks to off-peak commute periods.

a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?

Less Than Significant Impact. The Project site is generally bounded by East Cesar E. Chavez Avenue to the north, Michigan Avenue to the south, North Record Avenue to the west, and San Carlos Street to the northeast. There are no bicycle facilities within the school zone. There are sidewalks on both sides of each surrounding

street except for East San Carlos where there is no sidewalk for approximately 250 feet on the northeast side, just south of East Cesar E. Chavez Avenue.

During construction, the Project site would add construction workers and equipment at different amounts depending on the construction phase and time of the year. During the school year, there would be no more than 50 percent of the Campus disturbed at any one time and an average of 50 workers on-site. In the summer months, there would be a maximum of 150 workers on-site. A detailed intersection capacity analysis was conducted for the weekday morning and afternoon peak hours during both construction scenarios in the Construction Traffic Analysis. Construction activities are expected to primarily be contained within the Campus boundaries and would generally not affect the adjacent street access, transit, or parking in the area. A Construction Management Plan (SC-T-4) would be required, which would include measures to ensure pedestrian and vehicle safety and reduce effects on the surrounding community. The nearest bus stops are along East Cesar E. Chavez Avenue, none of which are anticipated to be closed or relocated during Project construction. The Construction Traffic Analysis determined that the Project would not result in any temporary construction-related impacts at off-site intersections.

The Project would not impact the circulation system as all improvements would be made on Campus. During operations, the Project is also not proposing to increase student enrollment, thus not creating more demand on the circulation system from additional students. Therefore, the Project would have a less than significant impact and would not conflict with a program, plan, ordinance or policy addressing the circulation system. Impacts would be less than significant and no further analysis is required.

b) Conflict or be inconsistent with CEQA Guidelines section 15064.3(b), which pertains to vehicle miles travelled?

Less Than Significant Impact. The Project is not proposing to increase enrollment, nor affect the circulation system in the Project area. All improvements are proposed to be made within the Project site and thus would not change or impact the amount of vehicle miles travelled. Construction VMT would be local, as it is assumed that the construction vehicles would be provided from within the Los Angeles region. Due to the Project site's location within an urbanized environment readily accessible from freeways and a major road (Cesar E. Chavez Avenue), VMT impacts would be less than significant after implementation of SC-T-2 and SC-T-4. Therefore, the Project would have a less than significant impact and would not conflict with or be inconsistent with CEQA Guidelines Section 15064.3(b). Impacts would be less than significant and no further analysis is required.

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less Than Significant Impact. The Project is proposing to make improvements to the Campus including replacement, renovation, modernization, and reconfiguration of buildings on campus. All improvements on Campus would be made within the Campus and thus not change the circulation design of the streets surrounding the Campus. None of the improvements would create geometric design features or incompatible uses that would substantially increase hazards. During construction, temporary safe circulation concerns would be addressed through a construction worksite traffic control plan, as required by SC-T-4. Therefore, the Project would have a less than significant impact with respect to increasing hazards due to a geometric design feature or incompatible use. Impacts would be less than significant and no further analysis is required.

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d) Result in inadequate emergency access?

Less Than Significant Impact. The Project is proposing to make improvements to the Campus buildings. Ingress and egress to the Campus will remain the same. All buildings on Campus would be subject to comply with the Fire Code and Fire Department standards in effect at the time of the Project, including proximity to fire truck access and hydrants. With regard to blocking potential emergency routes, the Project is not within or adjacent to a disaster route and would not make any changes to adjacent streets that could be used for emergency access.[85] Also, SC-PS-2 requires that LAUSD implement emergency preparedness and response procedures in all schools, which will further address student safety. Therefore, the Project would have a less than significant impact on emergency access. Impacts would be less than significant and no further analysis is required.

[85] Los Angeles County, General Plan 2035, Figure 12.6: Disaster Routes Map, May 2014.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact

XIX. TRIBAL CULTURAL RESOURCES.

Has a California Native American Tribe requested consultation in accordance with Public Resources Code section 21080.3.1(b)?

☒ Yes ☐ No

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

a. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k)?	☐	☐	☒	☐
b. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?	☐	☐	☒	☐

Explanation:

The following analysis was completed using information from the Belvedere Middle School Historical Resources Evaluation Report prepared by Rincon Consultants, Inc. dated June 2018 included as **Appendix C** and the Phase I Cultural Assessment for the Belvedere Middle School Project prepared by Envicom Corporation on April 4, 2019, included in **Appendix D.**

LAUSD has SCs for minimizing impacts to tribal cultural resources. Applicable SCs related to tribal cultural resources impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-TCR-1	All work shall stop within a 30 foot radius of the discovery. Work shall not continue until the discovery has been assessed by a qualified Archaeologist. Based on this initial assessment the affiliated Native American Tribal representative has contacted and consulted to provide as needed monitoring or to assist in the accurate assessment, recordation, and if appropriate, recovery of the resources, as required by the District.
SC-TCR-2	In the event that Tribal cultural resources are identified, the Archaeologist will retain a Native American Monitor to begin monitoring ground disturbance activities. The Native American Monitor shall be approved by the District and must have at least one or more of the following qualifications: • At least one year of experience providing Native American monitoring support during similar construction activities. • Be designated by the Tribe as capable of providing Native American monitoring support. • Have a combination of education and experience with Tribal cultural resources. Prior to reinitiating construction, the construction crew(s) will be provided with a brief summary of the sensitivity of Tribal cultural resources, the rationale behind the need for protection of resources, and information on the initial identification of Tribal cultural resources. This information shall be included in a worker's environmental awareness program that is prepared by LAUSD for the project (as applicable).

	Subsequently, the Monitor shall remain on-site for the duration of the ground-disturbing activities to ensure the protection of any other potential resources. The Native American Monitor will complete monitoring logs on a daily basis. The logs will provide descriptions of the daily activities, including construction activities, locations, soil, and any Tribal cultural resources identified.

a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?

Less Than Significant Impact. The Project site, all of which is developed or disturbed land, is within a highly developed urban area of the County of Los Angeles. The Project site and its surroundings are relatively flat with residential and commercial uses predominating. Belvedere MS was first established at its current Campus in 1924. Belvedere MS has operated as a school since its establishment and has constructed new buildings and renovations since then. In the 1940's the Campus footprint was expanded to include the Physical Education Building and the eastern third of the campus, including the recreational field.

The Belvedere Middle School Historical Resources Evaluation Report (HRER) evaluated each building on campus for eligibility as a historic resource or contributor to a potential historic district. The Historical Resources Evaluation Report concluded that Belvedere MS and the buildings it contains are ineligible for federal, state, or local designation under any applicable criteria. The oldest buildings on Campus date back to the mid-to-late 1920s, but all were extensively altered after the 1933 Long Beach earthquake and in subsequent decades. There were also a number of buildings on Campus that were developed in the decades after World War II, but they were constructed intermittently over a period of twenty years and are not representative of LAUSD design principles of the postwar era. The Campus does not appear eligible for federal, state, or local designation under any applicable criteria and is not considered a historical resource. Thus, the Project would have a less than significant impact with regard to historical resources as defined in Public Resources Code section 5020.1(k). Impacts would be less than significant and no further analysis is required.

b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

Less Than Significant Impact. A cultural resource record search was conducted by the South Central Coastal Information Center (SCCIC) and the California Native American Heritage Commission (NAHC).[86] Both searches examined the Project site plus a 0.5-mile study area around the Project. The record search results from the SCCIC resulted in no previously identified cultural resources located within the Project property. The NAHC record search results were received on January 29, 2019 with negative findings.

Pursuant to Assembly Bill (AB) 52, LAUSD notified the Native American Tribes/Tribal representatives that are traditionally and culturally affiliated with the Project areas of the District's proposed Projects. These Projects included the eleven (11) Comprehensive Modernization Projects, including this Project, and one (1) Classroom

[86] Envicom Corporation, Phase I Cultural Assessment of the Belvedere Middle School Project, Los Angeles County, California, April 4, 2019.

Expansion Project as referenced in the District's notification letter dated January 8, 2019. Request for consultation on all twelve (12) District Projects was received from the Gabrieleno Band of Mission Indians – Kizh Nation on January 9, 2019. Two consultation dates were set for March 21, 2019 and May 21, 2019. As a result of the consultation, the Gabrieleno Band of Mission Indians – Kizh Nation provided the District with suggested mitigation measures for the Projects.

Following the meeting, the District sent a conclusion letter on June 19, 2019 determining that the Gabrieleno Band of Mission Indians – Kizh Nation have not provided sufficient evidence demonstrating that the Project site has Tribal Cultural Resources (TCRs) as defined by Public Resources Code (PRC) 21074. Chairman Salas responded to this letter with a request for an additional meeting. At the requested meeting, held via conference call on August 15, 2019, Chairman Salas provided additional oral history and stated that because of the proximity to known TCRs, the Project may encounter resources. Following the meeting and the District's request for supporting evidence, Chairman Salas provided further tribal history and requested to have a Native American monitor present during all ground disturbances. Included with this request was a document describing the same mitigation measures that was previously provided for TCRs. In addition, the following documents (titles are publicly available) were included in response to the District's request for supporting documentation:

1. The old Spanish and Mexican ranchos of Los Angeles County (Gerald 1937);
2. Kirkman-Harriman Pictorial and Historical Map of Los Angeles County 1860-1937 (Kirkman 1938);
3. Official map of the County of Los Angeles, California (Wright 1898);
4. Excerpt describing the location of a village
5. Excerpt describing habitations (Southwest Museum Leaflet)
6. Excerpt describing the number of huts in a rancheria

A review of these documents did not find substantial evidence of an existing TCR within the Project site. No supporting documents indicated why the Project site should be considered to have a high potential for containing TCRs; therefore, Native American monitoring for TCRs during all ground disturbances is not required. In the unlikely event that construction-related ground disturbance results in the discovery of potential TCRs, compliance with SC-TCR-1 and SC-TCR-2 would ensure that potential impacts to TCRs are avoided.

The Project would comply with SC-TCR-1, which requires all construction activities to stop should tribal cultural resources be uncovered during ground disturbing activities. SC-TCR-2 also requires monitoring should tribal cultural resources be identified during grading. With implementation of SC-TCR-1 and SC-TCR-2, Project impacts to unknown potential tribal cultural resources would be less than significant. Impacts would be less than significant and no further analysis is required.

4. Environmental Checklist and Analysis

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XX. UTILITIES AND SERVICE SYSTEMS. Would the project:				
a. Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunication facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☒	☐
c. Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand, in addition to the provider's existing commitments?	☐	☐	☒	☐
d. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐

Explanation:

LAUSD has SCs for minimizing impacts to utilities and service systems. Applicable SCs related to utilities and service systems impacts associated with the proposed Project are provided below:

LAUSD Standard Conditions of Approval	
SC-USS-1	Consistent with current LAUSD requirements for recycling construction and demolition waste, the Construction Contractor shall implement the following solid waste reduction efforts during construction and demolition activities: **School Design Guide.** Establishes a minimum non-hazardous construction and demolition (C&D) debris recycling requirements of 75% by weight. Construction and demolition waste shall be recycled to the maximum extent feasible. **Construction & Demolition Waste Management.** This document outlines procedures for preparation and implementation, including reporting and documentation, of a Waste Management Plan for reusing, recycling, salvaging or disposal of non-hazardous waste materials generated during demolition and/or new construction 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 by weight.
SC-USS-2	LAUSD shall coordinate with the City of Los Angeles Department of Water and Power or other appropriate jurisdictions and departments prior to relocating or upgrading any water facilities to reduce the potential for disruptions in service.

SC-USS-3	LAUSD shall provide an easily accessible area that services the entire school and is 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 the capacity for separation of recyclables where waste is disposed of for classrooms and common areas such as cafeterias, gyms, or multi-purpose rooms.
SC-GHG-1	Implementation of SC-GHG-1.
SC-GHG-2	Implementation of SC-GHG-2.
SC-GHG-3	Implementation of SC-GHG-3.

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunication facilities, the construction or relocation of which could cause significant environmental effects?

Less Than Significant Impact. The Project would include replacement, renovation, modernization, and reconfiguration of buildings on campus. The Project at Belvedere MS would not increase capacity and the overall square footage of the buildings would decrease. All except for one of the buildings that are currently on the Campus were built in 1985 or earlier, and modernization of Campus buildings would naturally reduce demand for water, wastewater, electric power and natural gas due to efficiency requirements of newer facilities and fixtures. Between the smaller square footage of the buildings and more efficient buildings and appliances, the construction of the Project would not significantly increase demand or require the relocation or construction of new or expanded facilities. The Project is in an area already served by telecommunication services, and such facilities would not be unaffected. Therefore, the Project would have a less than significant impact on water, wastewater treatment, electric power, natural gas, or telecommunication facilities. Impacts would be less than significant and no further analysis is required.

b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Less Than Significant Impact. The Project site is served by the California Water Service for its water supplies. California Water Service uses a combination of local groundwater and water from the Metropolitan Water District of Southern California.[87] As the Project would not increase student enrollment, the square footage of building would decrease, and new utility facilities and fixtures would be compliant with current building codes, the Project is not likely to result in a significant, if any increase in water demand. As the Project area currently gets its water from the California Water Service, which receives its water from groundwater and imported water, supply is projected to meet demand through the year 2040.[88] Therefore, the Project would have a less than significant impact on water supplies. Impacts would be less than significant and no further analysis is required.

c) Result in a determination by the wastewater treatment provider that serves or may serve the project that it has adequate capacity to serve the project's projected demand, in addition to the provider's existing commitments?

[87] California Water Service, District Information, Accessed on February 20, 2019 at: https://www.calwater.com/about/district-information/ela/.
[88] California Water Service, 2015 Urban Water Management Plan, East Los Angeles District, June 2016.

4. Environmental Checklist and Analysis

Less Than Significant Impact. The Project site is served by Los Angeles County Public Works, Consolidated Sewer Maintenance District.[89] At full buildout of the Project, school enrollment would not increase and building square footage would decrease. Thus, the Project would not significantly increase wastewater generation. Therefore, the Project would have a less than significant impact wastewater treatment capacity of the provider. Impacts would be less than significant and no further analysis is required.

d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Less Than Significant Impact. The Project is not proposing to increase enrollment and would decrease total building square footage of the Campus buildings. Belvedere MS is served by Republic Services for its solid waste.[90] As stated above as SC-USS-1, during construction the Project would be required to divert waste as part of a Waste Management Plan. SC-USS-3 would require dedicated collection of recyclable materials during operation. With implementation of SC-USS-1, and no proposed increase in students or building sizes, the Project would not generate a significant amount of solid waste in excess of local infrastructure or impair solid waste reduction goals during construction. During operation with implementation of SC-USS-3, and that there would be no increase in students or building size, there would be no increase in solid waste generation. Therefore, the Project would have a less than significant impact with respect to generating solid waste. Impacts would be less than significant and no further analysis is required.

e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Less Than Significant Impact. The Project is not proposing to increase student enrollment and would not increase overall building square footage on Campus. Republic Services provides Belvedere MS's solid waste services. Through SC-USS-1 and SC-USS-3, as shown above, the Project would be required to comply with solid waste reduction statutes and regulations. With no increase in student enrollment or building sizes, solid waste generated during operation of the school is not expected to be significantly more, if any more at all, than existing conditions. Therefore, the Project would have a less than significant impact and comply with federal, state, and local management and reduction statutes and regulations related to solid waste. Impacts would be less than significant and no further analysis is required.

[89] Los Angeles County Public Works, Sewer Maintenance, Accessed on February 20, 2019 at: https://dpw.lacounty.gov/smd/smd/index.cfm.
[90] Los Angeles County Public Works, Service Locator, Accessed on February 20, 2019 at: https://dpw.lacounty.gov/general/servicelocator/.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XXI. WILDFIRE.				
Is the project located in or near state responsibility areas or lands classified as high fire hazard severity zones?	☐ Yes		☒ No	
If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:				
a. Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☒
c. Require the installation of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☒
d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

Explanation:

According to the Los Angeles County General Plan 2035, the Project site is not within a fire hazard area, therefore analysis of this section is not applicable.[91] No impact would occur and no further analysis is required.

[91] Los Angeles County, General Plan 2035, Figure 12.5: Fire Hazard Severity Zones Policy Map, May 2014.

4. Environmental Checklist and Analysis

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XXII. MANDATORY FINDINGS OF SIGNIFICANCE.				
a. Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☒	☐	☐
b. Does the project have impacts which are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects).	☐	☐	☒	☐
c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

Explanation:

a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Less Than Significant Impact with Mitigation Incorporated. The Project site is within a highly developed urban area surrounded by residential and commercial uses. There are no open space areas or water bodies on or adjacent to the Project site, thus the potential to impact a fish or wildlife population is limited and would not cause populations to drop below self-sustaining levels. The Project site does not contain a threatened plant or animal community, nor would the Project reduce or restrict the range of a rare or endangered plant or animal. See subsection IV. Biological Resources above for further response.

The Project site is an existing campus with buildings that are not eligible for federal, state, or local designation under any applicable criteria, as referenced in the HRER. The Project site is within an area that has cultural resources within a 0.5 mile radius, thus sensitive for older historic archaeological resources. Implementation of MM-CUL-1 and SC-CUL-6 through SC-CUL-10 would reduce potential impacts of older historic or prehistoric resources to less than significant.

Therefore, the Project would have a less than significant impact with mitigation to potentially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the

major period of California history or prehistory. Impacts would be less than significant with mitigation and no further analysis is required.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)

Less Than Significant Impact. All Project impacts were either "no impact," "less than significant," or "less than significant impact with mitigation incorporated." There would be no significant impacts after mitigation. Given the Project site's highly developed urban location, and the Project's plans to modernize an existing school, its impacts would not be cumulatively considerable. As all changes would be within the existing Campus, the Project's impacts would be limited in scope. Therefore, the Project would have a less than significant impact. Impacts would be less than significant and no further analysis is required.

c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less Than Significant Impact with Mitigation Incorporated. Environmental effects which could cause substantial adverse effects on human beings were evaluated in subsections III. Air Quality, VII. Geology and Soils, VIII. Greenhouse Gas Emissions, IX. Hazards and Hazardous Materials, X. Hydrology and Water Quality, XIII. Noise, XIV. Pedestrian Safety, XVIII. Transportation and Circulation, XX. Utilities and Service Systems. Project impacts were either "less than significant," or "less than significant with mitigation incorporated." Further, it could be argued that all environmental impacts addressed in the CEQA Checklist affect humans directly or indirectly. However, as evaluated in this Initial Study, no significant impacts would remain after mitigation. Therefore, the Project would have a less than significant impact with mitigation incorporated to have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly. Impacts would be less than significant with mitigation and no further analysis is required.

4. Environmental Checklist and Analysis

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5. List of Preparers

5.1 LEAD AGENCY

Los Angeles Unified School District, Office of Environmental Health & Safety

Christy Wong, Assistant CEQA Project Manager - Contract Professional
Edward Paek, CEQA Project Manager - Contract Professional
Gwenn Godek, CEQA Advisor – Contract Professional

5.2 CEQA CONSULTANT

Envicom Corporation Contributing Staff

Carl Lindner, Principal Project Manager

Laura Kaufman, Vice President

Jessica Hitchcock, Assistant Environmental Analyst

Robert Miyashiro, Assistant Environmental Analyst

Charles Cohn, Project Manager

Chris Boyte, Manager, GIS

Renee' Mauro, Office Manager

Subconsultants

Gibson Transportation Consulting, Inc. (Transportation)

Mr. Patrick Gibson, President

Giroux and Associates (Noise)

Mr. Hans Giroux, President

6. List of Preparers

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Appendices

Appendices are on CD

A. CalEEMod Output May 1, 2019
B. Tree Inventory/Evaluation
C. Historical Resources Evaluation Report
D. Phase I Cultural Assessment
E. Geotechnical Investigation and Engineering Geologic Review
F. Final Phase I Environmental Site Assessment
G. Noise and Vibration Impact Analysis
H. Site Circulation Report
I. Construction Traffic Analysis

Appendices

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APPENDIX A

CalEEMod Output May 1, 2019

Belvedere Middle School Modernization - Construction

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior High School	156.50	1000sqft	12.10	156,504.00	0
Parking Lot	70.00	Space	0.00	28,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	11			**Operational Year**	2024
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

Belvedere Middle School Modernization - Construction - South Coast Air Basin, Annual

Project Characteristics -

Land Use - 12.1 acre campus. 156,504 new construction and remodel. 70 parking spaces.

Construction Phase - Demo 65 days. Prep 65 days. 0 grading. 260 building days. 65 paving days. Coating concurrent with building construction.

Off-road Equipment - 2 skip loaders, 1 paver, 1 roller, 1 water truck.

Off-road Equipment - crane, 4 forklifts, 2 backhoe, 2 dump trucks, air compressor, bore rig, concrete pum, 5 cement trucks 2hrs/day

Off-road Equipment -

Off-road Equipment - excavator, compactor, loader, skid steer, water truck, 2 rollers, trencher

Off-road Equipment - Excavator, loader, skid steer, crusher, water truck, air compressor

Grading - 1.8 ac. new construction footprint. LAUSD estimates: 35 max. export trips per day @ 14 cy/truck x 65 day phase = 31,850 cy.

Demolition - 158,208 sf demo

Trips and VMT - LAUSD estimate: demo hauling 20 trucks/day x 65 days = 2,600 one-way trips. Site prep hauling 35 trucks/day x 65 days = 4,550 one-way trips.

Vehicle Trips - No new student generation. No increase in trips.

Construction Off-road Equipment Mitigation -

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Belvedere Middle School Modernization - Construction - South Coast Air Basin, Annual

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tblOffRoadEquipment	OffRoadEquipmentType		Pumps
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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4813	3.3651	2.4149	7.8300e-003	0.1156	0.1145	0.2301	0.0310	0.1074	0.1385	0.0000	717.9785	717.9785	0.1286	0.0000	721.1945
2022	0.9411	3.3625	3.5352	8.6000e-003	0.1215	0.1476	0.2691	0.0327	0.1387	0.1713	0.0000	759.7206	759.7206	0.1703	0.0000	763.9777
Maximum	**0.9411**	**3.3651**	**3.5352**	**8.6000e-003**	**0.1215**	**0.1476**	**0.2691**	**0.0327**	**0.1387**	**0.1713**	**0.0000**	**759.7206**	**759.7206**	**0.1703**	**0.0000**	**763.9777**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.4813	3.3651	2.4149	7.8300e-003	0.1141	0.1145	0.2286	0.0308	0.1074	0.1383	0.0000	717.9780	717.9780	0.1286	0.0000	721.1940
2022	0.9411	3.3625	3.5351	8.6000e-003	0.1215	0.1476	0.2691	0.0327	0.1387	0.1713	0.0000	759.7199	759.7199	0.1703	0.0000	763.9770
Maximum	**0.9411**	**3.3651**	**3.5351**	**8.6000e-003**	**0.1215**	**0.1476**	**0.2691**	**0.0327**	**0.1387**	**0.1713**	**0.0000**	**759.7199**	**759.7199**	**0.1703**	**0.0000**	**763.9770**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.64**	**0.00**	**0.31**	**0.33**	**0.00**	**0.06**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-5-2021	7-4-2021	0.9757	0.9757
2	7-5-2021	10-4-2021	1.3132	1.3132
3	10-5-2021	1-4-2022	1.5012	1.5012
4	1-5-2022	4-4-2022	1.3022	1.3022
5	4-5-2022	7-4-2022	1.3149	1.3149
6	7-5-2022	9-30-2022	1.2715	1.2715
		Highest	1.5012	1.5012

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6405	3.0000e-005	2.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6200e-003	5.6200e-003	1.0000e-005	0.0000	5.9900e-003
Energy	8.7800e-003	0.0798	0.0670	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003	0.0000	608.3423	608.3423	0.0140	4.1400e-003	609.9257
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	41.2985	0.0000	41.2985	2.4407	0.0000	102.3153
Water						0.0000	0.0000		0.0000	0.0000	1.0238	74.7539	75.7777	0.1069	2.8500e-003	79.2996
Total	**0.6493**	**0.0798**	**0.0699**	**4.8000e-004**	**0.0000**	**6.0700e-003**	**6.0700e-003**	**0.0000**	**6.0700e-003**	**6.0700e-003**	**42.3224**	**683.1018**	**725.4242**	**2.5616**	**6.9900e-003**	**791.5466**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6405	3.0000e-005	2.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6200e-003	5.6200e-003	1.0000e-005	0.0000	5.9900e-003
Energy	8.7800e-003	0.0798	0.0670	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003	0.0000	608.3423	608.3423	0.0140	4.1400e-003	609.9257
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	41.2985	0.0000	41.2985	2.4407	0.0000	102.3153
Water						0.0000	0.0000		0.0000	0.0000	1.0238	74.7539	75.7777	0.1069	2.8500e-003	79.2996
Total	**0.6493**	**0.0798**	**0.0699**	**4.8000e-004**	**0.0000**	**6.0700e-003**	**6.0700e-003**	**0.0000**	**6.0700e-003**	**6.0700e-003**	**42.3224**	**683.1018**	**725.4242**	**2.5616**	**6.9900e-003**	**791.5466**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Belvedere Middle School Modernization - Construction - South Coast Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/5/2021	7/2/2021	5	65	
2	Site Preparation	Site Preparation	7/5/2021	10/1/2021	5	65	
3	Grading	Grading	5/15/2021	5/14/2021	5	0	
4	Building Construction	Building Construction	10/4/2021	9/30/2022	5	260	
5	Paving	Paving	10/3/2022	12/30/2022	5	65	
6	Architectural Coating	Architectural Coating	10/4/2021	9/30/2022	5	260	

Acres of Grading (Site Preparation Phase): 1.8

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 234,756; Non-Residential Outdoor: 78,252; Striped Parking Area: 1,680 (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
Demolition	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	0	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	0	8.00	46	0.45
Paving	Skid Steer Loaders	2	8.00	65	0.37
Paving	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Off-Highway Trucks	2	8.00	402	0.38
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Bore/Drill Rigs	1	8.00	84	0.74
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Cement and Mortar Mixers	5	2.00	9	0.56
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Plate Compactors	1	8.00	8	0.43
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38
Site Preparation	Rollers	2	8.00	80	0.38
Site Preparation	Trenchers	1	8.00	78	0.50
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Off-Highway Trucks	1	8.00	402	0.38

Demolition	Air Compressors	1	8.00	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	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	17	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	2,600.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	4,550.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0670	0.5803	0.5411	1.2300e-003		0.0261	0.0261		0.0249	0.0249	0.0000	107.1000	107.1000	0.0268	0.0000	107.7707
Total	**0.0670**	**0.5803**	**0.5411**	**1.2300e-003**		**0.0261**	**0.0261**		**0.0249**	**0.0249**	**0.0000**	**107.1000**	**107.1000**	**0.0268**	**0.0000**	**107.7707**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.9900e-003	0.3477	0.0766	9.9000e-004	0.0223	1.0600e-003	0.0234	6.1300e-003	1.0100e-003	7.1400e-003	0.0000	97.5615	97.5615	7.0400e-003	0.0000	97.7374
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0300e-003	1.5000e-003	0.0170	5.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	4.0000e-005	1.4600e-003	0.0000	4.6637	4.6637	1.3000e-004	0.0000	4.6668
Total	**0.0120**	**0.3492**	**0.0936**	**1.0400e-003**	**0.0277**	**1.1000e-003**	**0.0288**	**7.5500e-003**	**1.0500e-003**	**8.6000e-003**	**0.0000**	**102.2251**	**102.2251**	**7.1700e-003**	**0.0000**	**102.4042**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0670	0.5803	0.5411	1.2300e-003		0.0261	0.0261		0.0249	0.0249	0.0000	107.0999	107.0999	0.0268	0.0000	107.7706
Total	**0.0670**	**0.5803**	**0.5411**	**1.2300e-003**		**0.0261**	**0.0261**		**0.0249**	**0.0249**	**0.0000**	**107.0999**	**107.0999**	**0.0268**	**0.0000**	**107.7706**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.9900e-003	0.3477	0.0766	9.9000e-004	0.0223	1.0600e-003	0.0234	6.1300e-003	1.0100e-003	7.1400e-003	0.0000	97.5615	97.5615	7.0400e-003	0.0000	97.7374
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0300e-003	1.5000e-003	0.0170	5.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	4.0000e-005	1.4600e-003	0.0000	4.6637	4.6637	1.3000e-004	0.0000	4.6668
Total	**0.0120**	**0.3492**	**0.0936**	**1.0400e-003**	**0.0277**	**1.1000e-003**	**0.0288**	**7.5500e-003**	**1.0500e-003**	**8.6000e-003**	**0.0000**	**102.2251**	**102.2251**	**7.1700e-003**	**0.0000**	**102.4042**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7600e-003	0.0000	2.7600e-003	3.8000e-004	0.0000	3.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0669	0.6473	0.5345	1.1700e-003		0.0314	0.0314		0.0290	0.0290	0.0000	102.0142	102.0142	0.0328	0.0000	102.8334
Total	**0.0669**	**0.6473**	**0.5345**	**1.1700e-003**	**2.7600e-003**	**0.0314**	**0.0342**	**3.8000e-004**	**0.0290**	**0.0293**	**0.0000**	**102.0142**	**102.0142**	**0.0328**	**0.0000**	**102.8334**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0175	0.6085	0.1340	1.7300e-003	0.0391	1.8500e-003	0.0410	0.0107	1.7700e-003	0.0125	0.0000	170.7326	170.7326	0.0123	0.0000	171.0405
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-003	2.0000e-003	0.0227	7.0000e-005	7.1300e-003	5.0000e-005	7.1900e-003	1.8900e-003	5.0000e-005	1.9400e-003	0.0000	6.2182	6.2182	1.7000e-004	0.0000	6.2224
Total	**0.0202**	**0.6105**	**0.1567**	**1.8000e-003**	**0.0462**	**1.9000e-003**	**0.0481**	**0.0126**	**1.8200e-003**	**0.0144**	**0.0000**	**176.9508**	**176.9508**	**0.0125**	**0.0000**	**177.2629**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2400e-003	0.0000	1.2400e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0669	0.6473	0.5345	1.1700e-003		0.0314	0.0314		0.0290	0.0290	0.0000	102.0141	102.0141	0.0328	0.0000	102.8333
Total	**0.0669**	**0.6473**	**0.5345**	**1.1700e-003**	**1.2400e-003**	**0.0314**	**0.0327**	**1.7000e-004**	**0.0290**	**0.0291**	**0.0000**	**102.0141**	**102.0141**	**0.0328**	**0.0000**	**102.8333**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0175	0.6085	0.1340	1.7300e-003	0.0391	1.8500e-003	0.0410	0.0107	1.7700e-003	0.0125	0.0000	170.7326	170.7326	0.0123	0.0000	171.0405
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-003	2.0000e-003	0.0227	7.0000e-005	7.1300e-003	5.0000e-005	7.1900e-003	1.8900e-003	5.0000e-005	1.9400e-003	0.0000	6.2182	6.2182	1.7000e-004	0.0000	6.2224
Total	**0.0202**	**0.6105**	**0.1567**	**1.8000e-003**	**0.0462**	**1.9000e-003**	**0.0481**	**0.0126**	**1.8200e-003**	**0.0144**	**0.0000**	**176.9508**	**176.9508**	**0.0125**	**0.0000**	**177.2629**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1106	1.0241	0.9017	1.9400e-003		0.0505	0.0505		0.0473	0.0473	0.0000	169.1127	169.1127	0.0465	0.0000	170.2759
Total	**0.1106**	**1.0241**	**0.9017**	**1.9400e-003**		**0.0505**	**0.0505**		**0.0473**	**0.0473**	**0.0000**	**169.1127**	**169.1127**	**0.0465**	**0.0000**	**170.2759**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-003	0.0948	0.0240	2.4000e-004	6.1400e-003	1.9000e-004	6.3400e-003	1.7700e-003	1.8000e-004	1.9600e-003	0.0000	23.6736	23.6736	1.5300e-003	0.0000	23.7118
Worker	0.0104	7.7200e-003	0.0873	2.6000e-004	0.0275	2.1000e-004	0.0277	7.2900e-003	1.9000e-004	7.4800e-003	0.0000	23.9402	23.9402	6.4000e-004	0.0000	23.9563
Total	**0.0132**	**0.1026**	**0.1113**	**5.0000e-004**	**0.0336**	**4.0000e-004**	**0.0340**	**9.0600e-003**	**3.7000e-004**	**9.4400e-003**	**0.0000**	**47.6139**	**47.6139**	**2.1700e-003**	**0.0000**	**47.6681**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1106	1.0241	0.9017	1.9400e-003		0.0505	0.0505		0.0473	0.0473	0.0000	169.1125	169.1125	0.0465	0.0000	170.2757
Total	**0.1106**	**1.0241**	**0.9017**	**1.9400e-003**		**0.0505**	**0.0505**		**0.0473**	**0.0473**	**0.0000**	**169.1125**	**169.1125**	**0.0465**	**0.0000**	**170.2757**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.8000e-003	0.0948	0.0240	2.4000e-004	6.1400e-003	1.9000e-004	6.3400e-003	1.7700e-003	1.8000e-004	1.9600e-003	0.0000	23.6736	23.6736	1.5300e-003	0.0000	23.7118
Worker	0.0104	7.7200e-003	0.0873	2.6000e-004	0.0275	2.1000e-004	0.0277	7.2900e-003	1.9000e-004	7.4800e-003	0.0000	23.9402	23.9402	6.4000e-004	0.0000	23.9563
Total	**0.0132**	**0.1026**	**0.1113**	**5.0000e-004**	**0.0336**	**4.0000e-004**	**0.0340**	**9.0600e-003**	**3.7000e-004**	**9.4400e-003**	**0.0000**	**47.6139**	**47.6139**	**2.1700e-003**	**0.0000**	**47.6681**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2958	2.6136	2.6339	5.8200e-003		0.1249	0.1249		0.1171	0.1171	0.0000	507.2171	507.2171	0.1392	0.0000	510.6979
Total	**0.2958**	**2.6136**	**2.6339**	**5.8200e-003**		**0.1249**	**0.1249**		**0.1171**	**0.1171**	**0.0000**	**507.2171**	**507.2171**	**0.1392**	**0.0000**	**510.6979**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8900e-003	0.2700	0.0681	7.2000e-004	0.0184	5.0000e-004	0.0189	5.3200e-003	4.8000e-004	5.8000e-003	0.0000	70.3935	70.3935	4.4200e-003	0.0000	70.5040
Worker	0.0293	0.0209	0.2420	7.7000e-004	0.0824	6.0000e-004	0.0830	0.0219	5.6000e-004	0.0224	0.0000	69.2482	69.2482	1.7500e-003	0.0000	69.2918
Total	**0.0372**	**0.2909**	**0.3100**	**1.4900e-003**	**0.1008**	**1.1000e-003**	**0.1019**	**0.0272**	**1.0400e-003**	**0.0282**	**0.0000**	**139.6417**	**139.6417**	**6.1700e-003**	**0.0000**	**139.7959**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2958	2.6136	2.6339	5.8200e-003		0.1249	0.1249		0.1171	0.1171	0.0000	507.2165	507.2165	0.1392	0.0000	510.6973
Total	**0.2958**	**2.6136**	**2.6339**	**5.8200e-003**		**0.1249**	**0.1249**		**0.1171**	**0.1171**	**0.0000**	**507.2165**	**507.2165**	**0.1392**	**0.0000**	**510.6973**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8900e-003	0.2700	0.0681	7.2000e-004	0.0184	5.0000e-004	0.0189	5.3200e-003	4.8000e-004	5.8000e-003	0.0000	70.3935	70.3935	4.4200e-003	0.0000	70.5040
Worker	0.0293	0.0209	0.2420	7.7000e-004	0.0824	6.0000e-004	0.0830	0.0219	5.6000e-004	0.0224	0.0000	69.2482	69.2482	1.7500e-003	0.0000	69.2918
Total	**0.0372**	**0.2909**	**0.3100**	**1.4900e-003**	**0.1008**	**1.1000e-003**	**0.1019**	**0.0272**	**1.0400e-003**	**0.0282**	**0.0000**	**139.6417**	**139.6417**	**6.1700e-003**	**0.0000**	**139.7959**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0339	0.3155	0.3537	8.0000e-004		0.0135	0.0135		0.0124	0.0124	0.0000	70.5806	70.5806	0.0228	0.0000	71.1512
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0339**	**0.3155**	**0.3537**	**8.0000e-004**		**0.0135**	**0.0135**		**0.0124**	**0.0124**	**0.0000**	**70.5806**	**70.5806**	**0.0228**	**0.0000**	**71.1512**

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6500e-003	1.1800e-003	0.0136	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.8971	3.8971	1.0000e-004	0.0000	3.8995
Total	**1.6500e-003**	**1.1800e-003**	**0.0136**	**4.0000e-005**	**4.6400e-003**	**3.0000e-005**	**4.6700e-003**	**1.2300e-003**	**3.0000e-005**	**1.2600e-003**	**0.0000**	**3.8971**	**3.8971**	**1.0000e-004**	**0.0000**	**3.8995**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0339	0.3155	0.3537	8.0000e-004		0.0135	0.0135		0.0124	0.0124	0.0000	70.5805	70.5805	0.0228	0.0000	71.1512
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0339**	**0.3155**	**0.3537**	**8.0000e-004**		**0.0135**	**0.0135**		**0.0124**	**0.0124**	**0.0000**	**70.5805**	**70.5805**	**0.0228**	**0.0000**	**71.1512**

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6500e-003	1.1800e-003	0.0136	4.0000e-005	4.6400e-003	3.0000e-005	4.6700e-003	1.2300e-003	3.0000e-005	1.2600e-003	0.0000	3.8971	3.8971	1.0000e-004	0.0000	3.8995
Total	**1.6500e-003**	**1.1800e-003**	**0.0136**	**4.0000e-005**	**4.6400e-003**	**3.0000e-005**	**4.6700e-003**	**1.2300e-003**	**3.0000e-005**	**1.2600e-003**	**0.0000**	**3.8971**	**3.8971**	**1.0000e-004**	**0.0000**	**3.8995**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1823					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1100e-003	0.0496	0.0591	1.0000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	8.2981	8.2981	5.7000e-004	0.0000	8.3123
Total	**0.1894**	**0.0496**	**0.0591**	**1.0000e-004**		**3.0600e-003**	**3.0600e-003**		**3.0600e-003**	**3.0600e-003**	**0.0000**	**8.2981**	**8.2981**	**5.7000e-004**	**0.0000**	**8.3123**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0300e-003	1.5000e-003	0.0170	5.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	4.0000e-005	1.4600e-003	0.0000	4.6637	4.6637	1.3000e-004	0.0000	4.6668
Total	**2.0300e-003**	**1.5000e-003**	**0.0170**	**5.0000e-005**	**5.3500e-003**	**4.0000e-005**	**5.3900e-003**	**1.4200e-003**	**4.0000e-005**	**1.4600e-003**	**0.0000**	**4.6637**	**4.6637**	**1.3000e-004**	**0.0000**	**4.6668**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1823					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1100e-003	0.0496	0.0591	1.0000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	8.2981	8.2981	5.7000e-004	0.0000	8.3123
Total	**0.1894**	**0.0496**	**0.0591**	**1.0000e-004**		**3.0600e-003**	**3.0600e-003**		**3.0600e-003**	**3.0600e-003**	**0.0000**	**8.2981**	**8.2981**	**5.7000e-004**	**0.0000**	**8.3123**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0300e-003	1.5000e-003	0.0170	5.0000e-005	5.3500e-003	4.0000e-005	5.3900e-003	1.4200e-003	4.0000e-005	1.4600e-003	0.0000	4.6637	4.6637	1.3000e-004	0.0000	4.6668
Total	**2.0300e-003**	**1.5000e-003**	**0.0170**	**5.0000e-005**	**5.3500e-003**	**4.0000e-005**	**5.3900e-003**	**1.4200e-003**	**4.0000e-005**	**1.4600e-003**	**0.0000**	**4.6637**	**4.6637**	**1.3000e-004**	**0.0000**	**4.6668**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5470					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1373	0.1768	2.9000e-004		7.9700e-003	7.9700e-003		7.9700e-003	7.9700e-003	0.0000	24.8942	24.8942	1.6200e-003	0.0000	24.9347
Total	**0.5669**	**0.1373**	**0.1768**	**2.9000e-004**		**7.9700e-003**	**7.9700e-003**		**7.9700e-003**	**7.9700e-003**	**0.0000**	**24.8942**	**24.8942**	**1.6200e-003**	**0.0000**	**24.9347**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7100e-003	4.0800e-003	0.0471	1.5000e-004	0.0161	1.2000e-004	0.0162	4.2600e-003	1.1000e-004	4.3700e-003	0.0000	13.4899	13.4899	3.4000e-004	0.0000	13.4984
Total	**5.7100e-003**	**4.0800e-003**	**0.0471**	**1.5000e-004**	**0.0161**	**1.2000e-004**	**0.0162**	**4.2600e-003**	**1.1000e-004**	**4.3700e-003**	**0.0000**	**13.4899**	**13.4899**	**3.4000e-004**	**0.0000**	**13.4984**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5470					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0199	0.1373	0.1768	2.9000e-004		7.9700e-003	7.9700e-003		7.9700e-003	7.9700e-003	0.0000	24.8942	24.8942	1.6200e-003	0.0000	24.9347
Total	**0.5669**	**0.1373**	**0.1768**	**2.9000e-004**		**7.9700e-003**	**7.9700e-003**		**7.9700e-003**	**7.9700e-003**	**0.0000**	**24.8942**	**24.8942**	**1.6200e-003**	**0.0000**	**24.9347**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.7100e-003	4.0800e-003	0.0471	1.5000e-004	0.0161	1.2000e-004	0.0162	4.2600e-003	1.1000e-004	4.3700e-003	0.0000	13.4899	13.4899	3.4000e-004	0.0000	13.4984
Total	**5.7100e-003**	**4.0800e-003**	**0.0471**	**1.5000e-004**	**0.0161**	**1.2000e-004**	**0.0162**	**4.2600e-003**	**1.1000e-004**	**4.3700e-003**	**0.0000**	**13.4899**	**13.4899**	**3.4000e-004**	**0.0000**	**13.4984**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior High School	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior High School	16.60	8.40	6.90	72.80	22.20	5.00	63	25	12
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior High School	0.553363	0.042540	0.203692	0.115607	0.014606	0.005830	0.021800	0.032323	0.002120	0.001725	0.004837	0.000711	0.000846
Parking Lot	0.553363	0.042540	0.203692	0.115607	0.014606	0.005830	0.021800	0.032323	0.002120	0.001725	0.004837	0.000711	0.000846

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	521.4851	521.4851	0.0123	2.5500e-003	522.5524
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	521.4851	521.4851	0.0123	2.5500e-003	522.5524
NaturalGas Mitigated	8.7800e-003	0.0798	0.0670	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003	0.0000	86.8572	86.8572	1.6600e-003	1.5900e-003	87.3733
NaturalGas Unmitigated	8.7800e-003	0.0798	0.0670	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003	0.0000	86.8572	86.8572	1.6600e-003	1.5900e-003	87.3733

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior High School	1.62764e+006	8.7800e-003	0.0798	0.0670	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003	0.0000	86.8572	86.8572	1.6600e-003	1.5900e-003	87.3733
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**8.7800e-003**	**0.0798**	**0.0670**	**4.8000e-004**		**6.0600e-003**	**6.0600e-003**		**6.0600e-003**	**6.0600e-003**	**0.0000**	**86.8572**	**86.8572**	**1.6600e-003**	**1.5900e-003**	**87.3733**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior High School	1.62764e+006	8.7800e-003	0.0798	0.0670	4.8000e-004		6.0600e-003	6.0600e-003		6.0600e-003	6.0600e-003	0.0000	86.8572	86.8572	1.6600e-003	1.5900e-003	87.3733
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**8.7800e-003**	**0.0798**	**0.0670**	**4.8000e-004**		**6.0600e-003**	**6.0600e-003**		**6.0600e-003**	**6.0600e-003**	**0.0000**	**86.8572**	**86.8572**	**1.6600e-003**	**1.5900e-003**	**87.3733**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior High School	926504	516.0269	0.0122	2.5200e-003	517.0830
Parking Lot	9800	5.4582	1.3000e-004	3.0000e-005	5.4694
Total		**521.4851**	**0.0123**	**2.5500e-003**	**522.5524**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior High School	926504	516.0269	0.0122	2.5200e-003	517.0830
Parking Lot	9800	5.4582	1.3000e-004	3.0000e-005	5.4694
Total		**521.4851**	**0.0123**	**2.5500e-003**	**522.5524**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6405	3.0000e-005	2.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6200e-003	5.6200e-003	1.0000e-005	0.0000	5.9900e-003
Unmitigated	0.6405	3.0000e-005	2.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6200e-003	5.6200e-003	1.0000e-005	0.0000	5.9900e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0729					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5673					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7000e-004	3.0000e-005	2.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6200e-003	5.6200e-003	1.0000e-005	0.0000	5.9900e-003
Total	**0.6405**	**3.0000e-005**	**2.8900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.6200e-003**	**5.6200e-003**	**1.0000e-005**	**0.0000**	**5.9900e-003**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0729					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5673					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7000e-004	3.0000e-005	2.8900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6200e-003	5.6200e-003	1.0000e-005	0.0000	5.9900e-003
Total	**0.6405**	**3.0000e-005**	**2.8900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**5.6200e-003**	**5.6200e-003**	**1.0000e-005**	**0.0000**	**5.9900e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	75.7777	0.1069	2.8500e-003	79.2996
Unmitigated	75.7777	0.1069	2.8500e-003	79.2996

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior High School	3.22719 / 8.29848	75.7777	0.1069	2.8500e-003	79.2996
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**75.7777**	**0.1069**	**2.8500e-003**	**79.2996**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior High School	3.22719 / 8.29848	75.7777	0.1069	2.8500e-003	79.2996
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**75.7777**	**0.1069**	**2.8500e-003**	**79.2996**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	41.2985	2.4407	0.0000	102.3153
Unmitigated	41.2985	2.4407	0.0000	102.3153

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior High School	203.45	41.2985	2.4407	0.0000	102.3153
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**41.2985**	**2.4407**	**0.0000**	**102.3153**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior High School	203.45	41.2985	2.4407	0.0000	102.3153
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**41.2985**	**2.4407**	**0.0000**	**102.3153**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Belvedere Middle School Modernization - Construction

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior High School	156.50	1000sqft	12.10	156,504.00	0
Parking Lot	70.00	Space	0.00	28,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	11			**Operational Year**	2024
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

Belvedere Middle School Modernization - Construction - South Coast Air Basin, Summer

Project Characteristics -

Land Use - 12.1 acre campus. 156,504 new construction and remodel. 70 parking spaces.

Construction Phase - Demo 65 days. Prep 65 days. 0 grading. 260 building days. 65 paving days. Coating concurrent with building construction.

Off-road Equipment - 2 skip loaders, 1 paver, 1 roller, 1 water truck.

Off-road Equipment - crane, 4 forklifts, 2 backhoe, 2 dump trucks, air compressor, bore rig, concrete pum, 5 cement trucks 2hrs/day

Off-road Equipment -

Off-road Equipment - excavator, compactor, loader, skid steer, water truck, 2 rollers, trencher

Off-road Equipment - Excavator, loader, skid steer, crusher, water truck, air compressor

Grading - 1.8 ac. new construction footprint. LAUSD estimates: 35 max. export trips per day @ 14 cy/truck x 65 day phase = 31,850 cy.

Demolition - 158,208 sf demo

Trips and VMT - LAUSD estimate: demo hauling 20 trucks/day x 65 days = 2,600 one-way trips. Site prep hauling 35 trucks/day x 65 days = 4,550 one-way trips.

Vehicle Trips - No new student generation. No increase in trips.

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	260.00
tblConstructionPhase	NumDays	300.00	260.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	PhaseEndDate	10/14/2022	9/30/2022
tblConstructionPhase	PhaseEndDate	8/19/2022	9/30/2022
tblConstructionPhase	PhaseEndDate	4/30/2021	7/2/2021
tblConstructionPhase	PhaseEndDate	6/25/2021	5/14/2021
tblConstructionPhase	PhaseEndDate	9/16/2022	12/30/2022
tblConstructionPhase	PhaseEndDate	5/14/2021	10/1/2021

Belvedere Middle School Modernization - Construction - South Coast Air Basin, Summer

tblConstructionPhase	PhaseStartDate	9/17/2022	10/4/2021
tblConstructionPhase	PhaseStartDate	6/26/2021	10/4/2021
tblConstructionPhase	PhaseStartDate	8/20/2022	10/3/2022
tblConstructionPhase	PhaseStartDate	5/1/2021	7/5/2021
tblGrading	AcresOfGrading	0.00	75.00
tblGrading	AcresOfGrading	0.00	1.80
tblGrading	MaterialExported	0.00	31,850.00
tblLandUse	LotAcreage	3.59	12.10
tblLandUse	LotAcreage	0.63	0.00
tblOffRoadEquipment	HorsePower	221.00	84.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.74
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs

tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	15,644.00	2,600.00

tblTripsAndVMT	HaulingTripNumber	3,981.00	4,550.00
tblVehicleTrips	WD_TR	13.78	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	9.6999	38.1215	33.7136	0.0918	1.5310	1.9870	2.8812	0.4059	1.8280	1.8894	0.0000	9,514.2674	9,514.2674	1.6751	0.0000	9,552.4804
2022	9.2883	31.1700	32.6824	0.0801	1.2203	1.3753	2.5956	0.3280	1.2946	1.6226	0.0000	7,802.9140	7,802.9140	1.6658	0.0000	7,844.5583
Maximum	**9.6999**	**38.1215**	**33.7136**	**0.0918**	**1.5310**	**1.9870**	**2.8812**	**0.4059**	**1.8280**	**1.8894**	**0.0000**	**9,514.2674**	**9,514.2674**	**1.6751**	**0.0000**	**9,552.4804**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	9.6999	38.1215	33.7136	0.0918	1.4843	1.9870	2.8812	0.3995	1.8280	1.8894	0.0000	9,514.2674	9,514.2674	1.6751	0.0000	9,552.4804
2022	9.2883	31.1700	32.6824	0.0801	1.2203	1.3753	2.5956	0.3280	1.2946	1.6226	0.0000	7,802.9140	7,802.9140	1.6658	0.0000	7,844.5583
Maximum	**9.6999**	**38.1215**	**33.7136**	**0.0918**	**1.4843**	**1.9870**	**2.8812**	**0.3995**	**1.8280**	**1.8894**	**0.0000**	**9,514.2674**	**9,514.2674**	**1.6751**	**0.0000**	**9,552.4804**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**1.69**	**0.00**	**0.00**	**0.87**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.5104	2.1000e-004	0.0231	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0496	0.0496	1.3000e-004		0.0528
Energy	0.0481	0.4372	0.3672	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.6226	524.6226	0.0101	9.6200e-003	527.7402
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**3.5585**	**0.4374**	**0.3903**	**2.6200e-003**	**0.0000**	**0.0333**	**0.0333**	**0.0000**	**0.0333**	**0.0333**		**524.6722**	**524.6722**	**0.0102**	**9.6200e-003**	**527.7930**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.5104	2.1000e-004	0.0231	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0496	0.0496	1.3000e-004		0.0528
Energy	0.0481	0.4372	0.3672	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.6226	524.6226	0.0101	9.6200e-003	527.7402
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**3.5585**	**0.4374**	**0.3903**	**2.6200e-003**	**0.0000**	**0.0333**	**0.0333**	**0.0000**	**0.0333**	**0.0333**		**524.6722**	**524.6722**	**0.0102**	**9.6200e-003**	**527.7930**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/5/2021	7/2/2021	5	65	
2	Site Preparation	Site Preparation	7/5/2021	10/1/2021	5	65	
3	Grading	Grading	5/15/2021	5/14/2021	5	0	
4	Building Construction	Building Construction	10/4/2021	9/30/2022	5	260	
5	Paving	Paving	10/3/2022	12/30/2022	5	65	
6	Architectural Coating	Architectural Coating	10/4/2021	9/30/2022	5	260	

Acres of Grading (Site Preparation Phase): 1.8

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 234,756; Non-Residential Outdoor: 78,252; Striped Parking Area: 1,680 (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
Demolition	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	0	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	0	8.00	46	0.45
Paving	Skid Steer Loaders	2	8.00	65	0.37
Paving	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Off-Highway Trucks	2	8.00	402	0.38
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Bore/Drill Rigs	1	8.00	84	0.74
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Cement and Mortar Mixers	5	2.00	9	0.56
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Plate Compactors	1	8.00	8	0.43
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38

Site Preparation	Rollers	2	8.00	80	0.38
Site Preparation	Trenchers	1	8.00	78	0.50
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Air Compressors	1	8.00	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	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	17	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	2,600.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	4,550.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0621	17.8566	16.6480	0.0378		0.8022	0.8022		0.7647	0.7647		3,632.5409	3,632.5409	0.9099		3,655.2885
Total	**2.0621**	**17.8566**	**16.6480**	**0.0378**		**0.8022**	**0.8022**		**0.7647**	**0.7647**		**3,632.5409**	**3,632.5409**	**0.9099**		**3,655.2885**

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	0.3040	10.3713	2.2909	0.0307	0.6986	0.0323	0.7310	0.1914	0.0309	0.2224		3,333.0542	3,333.0542	0.2349		3,338.9267
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0628	0.0410	0.5632	1.6700e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		166.0347	166.0347	4.4800e-003		166.1466
Total	**0.3668**	**10.4122**	**2.8541**	**0.0324**	**0.8663**	**0.0336**	**0.8999**	**0.2359**	**0.0321**	**0.2680**		**3,499.0890**	**3,499.0890**	**0.2394**		**3,505.0734**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0621	17.8566	16.6480	0.0378		0.8022	0.8022		0.7647	0.7647	0.0000	3,632.5409	3,632.5409	0.9099		3,655.2885
Total	**2.0621**	**17.8566**	**16.6480**	**0.0378**		**0.8022**	**0.8022**		**0.7647**	**0.7647**	**0.0000**	**3,632.5409**	**3,632.5409**	**0.9099**		**3,655.2885**

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	0.3040	10.3713	2.2909	0.0307	0.6986	0.0323	0.7310	0.1914	0.0309	0.2224		3,333.0542	3,333.0542	0.2349		3,338.9267
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0628	0.0410	0.5632	1.6700e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		166.0347	166.0347	4.4800e-003		166.1466
Total	**0.3668**	**10.4122**	**2.8541**	**0.0324**	**0.8663**	**0.0336**	**0.8999**	**0.2359**	**0.0321**	**0.2680**		**3,499.0890**	**3,499.0890**	**0.2394**		**3,505.0734**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0848	0.0000	0.0848	0.0116	0.0000	0.0116			0.0000			0.0000
Off-Road	2.0579	19.9172	16.4447	0.0359		0.9675	0.9675		0.8909	0.8909		3,460.0428	3,460.0428	1.1115		3,487.8298
Total	**2.0579**	**19.9172**	**16.4447**	**0.0359**	**0.0848**	**0.9675**	**1.0523**	**0.0116**	**0.8909**	**0.9024**		**3,460.0428**	**3,460.0428**	**1.1115**		**3,487.8298**

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	0.5320	18.1497	4.0092	0.0537	1.2226	0.0566	1.2792	0.3350	0.0541	0.3891		5,832.8449	5,832.8449	0.4111		5,843.1218
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0837	0.0546	0.7509	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.3797	221.3797	5.9700e-003		221.5288
Total	**0.6157**	**18.2043**	**4.7601**	**0.0559**	**1.4462**	**0.0582**	**1.5044**	**0.3943**	**0.0557**	**0.4500**		**6,054.2246**	**6,054.2246**	**0.4170**		**6,064.6506**

3.3 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0382	0.0000	0.0382	5.2000e-003	0.0000	5.2000e-003			0.0000			0.0000
Off-Road	2.0579	19.9172	16.4447	0.0359		0.9675	0.9675		0.8909	0.8909	0.0000	3,460.0428	3,460.0428	1.1115		3,487.8297
Total	**2.0579**	**19.9172**	**16.4447**	**0.0359**	**0.0382**	**0.9675**	**1.0056**	**5.2000e-003**	**0.8909**	**0.8961**	**0.0000**	**3,460.0428**	**3,460.0428**	**1.1115**		**3,487.8297**

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	0.5320	18.1497	4.0092	0.0537	1.2226	0.0566	1.2792	0.3350	0.0541	0.3891		5,832.8449	5,832.8449	0.4111		5,843.1218
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0837	0.0546	0.7509	2.2200e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		221.3797	221.3797	5.9700e-003		221.5288
Total	**0.6157**	**18.2043**	**4.7601**	**0.0559**	**1.4462**	**0.0582**	**1.5044**	**0.3943**	**0.0557**	**0.4500**		**6,054.2246**	**6,054.2246**	**0.4170**		**6,064.6506**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	3.4017	31.5104	27.7441	0.0597		1.5533	1.5533		1.4547	1.4547		5,735.8421	5,735.8421	1.5781		5,775.2944
Total	**3.4017**	**31.5104**	**27.7441**	**0.0597**		**1.5533**	**1.5533**		**1.4547**	**1.4547**		**5,735.8421**	**5,735.8421**	**1.5781**		**5,775.2944**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0844	2.8730	0.6976	7.5900e-003	0.1920	5.8700e-003	0.1978	0.0553	5.6100e-003	0.0609		812.2312	812.2312	0.0502		813.4869
Worker	0.3223	0.2102	2.8911	8.5500e-003	0.8607	6.3700e-003	0.8671	0.2283	5.8700e-003	0.2341		852.3117	852.3117	0.0230		852.8860
Total	**0.4067**	**3.0832**	**3.5887**	**0.0161**	**1.0526**	**0.0122**	**1.0649**	**0.2835**	**0.0115**	**0.2950**		**1,664.5429**	**1,664.5429**	**0.0732**		**1,666.3729**

3.5 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4017	31.5104	27.7441	0.0597		1.5533	1.5533		1.4547	1.4547	0.0000	5,735.8421	5,735.8421	1.5781		5,775.2944
Total	**3.4017**	**31.5104**	**27.7441**	**0.0597**		**1.5533**	**1.5533**		**1.4547**	**1.4547**	**0.0000**	**5,735.8421**	**5,735.8421**	**1.5781**		**5,775.2944**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0844	2.8730	0.6976	7.5900e-003	0.1920	5.8700e-003	0.1978	0.0553	5.6100e-003	0.0609		812.2312	812.2312	0.0502		813.4869
Worker	0.3223	0.2102	2.8911	8.5500e-003	0.8607	6.3700e-003	0.8671	0.2283	5.8700e-003	0.2341		852.3117	852.3117	0.0230		852.8860
Total	**0.4067**	**3.0832**	**3.5887**	**0.0161**	**1.0526**	**0.0122**	**1.0649**	**0.2835**	**0.0115**	**0.2950**		**1,664.5429**	**1,664.5429**	**0.0732**		**1,666.3729**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0334	26.8058	27.0139	0.0597		1.2811	1.2811		1.2012	1.2012		5,734.4732	5,734.4732	1.5741		5,773.8265
Total	**3.0334**	**26.8058**	**27.0139**	**0.0597**		**1.2811**	**1.2811**		**1.2012**	**1.2012**		**5,734.4732**	**5,734.4732**	**1.5741**		**5,773.8265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0792	2.7289	0.6605	7.5200e-003	0.1920	5.1000e-003	0.1971	0.0553	4.8800e-003	0.0601		805.1107	805.1107	0.0485		806.3232
Worker	0.3023	0.1899	2.6736	8.2500e-003	0.8607	6.1900e-003	0.8669	0.2283	5.7000e-003	0.2340		821.7926	821.7926	0.0208		822.3118
Total	**0.3815**	**2.9188**	**3.3341**	**0.0158**	**1.0526**	**0.0113**	**1.0639**	**0.2835**	**0.0106**	**0.2941**		**1,626.9033**	**1,626.9033**	**0.0693**		**1,628.6350**

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0334	26.8058	27.0139	0.0597		1.2811	1.2811		1.2012	1.2012	0.0000	5,734.4732	5,734.4732	1.5741		5,773.8265
Total	**3.0334**	**26.8058**	**27.0139**	**0.0597**		**1.2811**	**1.2811**		**1.2012**	**1.2012**	**0.0000**	**5,734.4732**	**5,734.4732**	**1.5741**		**5,773.8265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0792	2.7289	0.6605	7.5200e-003	0.1920	5.1000e-003	0.1971	0.0553	4.8800e-003	0.0601		805.1107	805.1107	0.0485		806.3232
Worker	0.3023	0.1899	2.6736	8.2500e-003	0.8607	6.1900e-003	0.8669	0.2283	5.7000e-003	0.2340		821.7926	821.7926	0.0208		822.3118
Total	**0.3815**	**2.9188**	**3.3341**	**0.0158**	**1.0526**	**0.0113**	**1.0639**	**0.2835**	**0.0106**	**0.2941**		**1,626.9033**	**1,626.9033**	**0.0693**		**1,628.6350**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0429	9.7082	10.8829	0.0247		0.4146	0.4146		0.3814	0.3814		2,393.8997	2,393.8997	0.7742		2,413.2556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0429**	**9.7082**	**10.8829**	**0.0247**		**0.4146**	**0.4146**		**0.3814**	**0.3814**		**2,393.8997**	**2,393.8997**	**0.7742**		**2,413.2556**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0510	0.0321	0.4514	1.3900e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		138.7442	138.7442	3.5100e-003		138.8319
Total	**0.0510**	**0.0321**	**0.4514**	**1.3900e-003**	**0.1453**	**1.0400e-003**	**0.1464**	**0.0385**	**9.6000e-004**	**0.0395**		**138.7442**	**138.7442**	**3.5100e-003**		**138.8319**

3.6 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0429	9.7082	10.8829	0.0247		0.4146	0.4146		0.3814	0.3814	0.0000	2,393.8997	2,393.8997	0.7742		2,413.2556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0429**	**9.7082**	**10.8829**	**0.0247**		**0.4146**	**0.4146**		**0.3814**	**0.3814**	**0.0000**	**2,393.8997**	**2,393.8997**	**0.7742**		**2,413.2556**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0510	0.0321	0.4514	1.3900e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		138.7442	138.7442	3.5100e-003		138.8319
Total	**0.0510**	**0.0321**	**0.4514**	**1.3900e-003**	**0.1453**	**1.0400e-003**	**0.1464**	**0.0385**	**9.6000e-004**	**0.0395**		**138.7442**	**138.7442**	**3.5100e-003**		**138.8319**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.6099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**5.8288**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0628	0.0410	0.5632	1.6700e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		166.0347	166.0347	4.4800e-003		166.1466
Total	**0.0628**	**0.0410**	**0.5632**	**1.6700e-003**	**0.1677**	**1.2400e-003**	**0.1689**	**0.0445**	**1.1400e-003**	**0.0456**		**166.0347**	**166.0347**	**4.4800e-003**		**166.1466**

3.7 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.6099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**5.8288**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0628	0.0410	0.5632	1.6700e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		166.0347	166.0347	4.4800e-003		166.1466
Total	**0.0628**	**0.0410**	**0.5632**	**1.6700e-003**	**0.1677**	**1.2400e-003**	**0.1689**	**0.0445**	**1.1400e-003**	**0.0456**		**166.0347**	**166.0347**	**4.4800e-003**		**166.1466**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.6099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**5.8145**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

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

3.7 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.6099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**5.8145**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior High School	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior High School	16.60	8.40	6.90	72.80	22.20	5.00	63	25	12
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior High School	0.553363	0.042540	0.203692	0.115607	0.014606	0.005830	0.021800	0.032323	0.002120	0.001725	0.004837	0.000711	0.000846
Parking Lot	0.553363	0.042540	0.203692	0.115607	0.014606	0.005830	0.021800	0.032323	0.002120	0.001725	0.004837	0.000711	0.000846

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0481	0.4372	0.3672	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.6226	524.6226	0.0101	9.6200e-003	527.7402
NaturalGas Unmitigated	0.0481	0.4372	0.3672	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.6226	524.6226	0.0101	9.6200e-003	527.7402

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Junior High School	4459.29	0.0481	0.4372	0.3672	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.6226	524.6226	0.0101	9.6200e-003	527.7402
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0481**	**0.4372**	**0.3672**	**2.6200e-003**		**0.0332**	**0.0332**		**0.0332**	**0.0332**		**524.6226**	**524.6226**	**0.0101**	**9.6200e-003**	**527.7402**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Junior High School	4.45929	0.0481	0.4372	0.3672	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.6226	524.6226	0.0101	9.6200e-003	527.7402
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0481**	**0.4372**	**0.3672**	**2.6200e-003**		**0.0332**	**0.0332**		**0.0332**	**0.0332**		**524.6226**	**524.6226**	**0.0101**	**9.6200e-003**	**527.7402**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.5104	2.1000e-004	0.0231	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0496	0.0496	1.3000e-004		0.0528
Unmitigated	3.5104	2.1000e-004	0.0231	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0496	0.0496	1.3000e-004		0.0528

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	0.3996					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1300e-003	2.1000e-004	0.0231	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0496	0.0496	1.3000e-004		0.0528
Total	**3.5104**	**2.1000e-004**	**0.0231**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0496**	**0.0496**	**1.3000e-004**		**0.0528**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3996					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1300e-003	2.1000e-004	0.0231	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0496	0.0496	1.3000e-004		0.0528
Total	**3.5104**	**2.1000e-004**	**0.0231**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0496**	**0.0496**	**1.3000e-004**		**0.0528**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Belvedere Middle School Modernization - Construction

South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior High School	156.50	1000sqft	12.10	156,504.00	0
Parking Lot	70.00	Space	0.00	28,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	31
Climate Zone	11			**Operational Year**	2024
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

Belvedere Middle School Modernization - Construction - South Coast Air Basin, Winter

Project Characteristics -

Land Use - 12.1 acre campus. 156,504 new construction and remodel. 70 parking spaces.

Construction Phase - Demo 65 days. Prep 65 days. 0 grading. 260 building days. 65 paving days. Coating concurrent with building construction.

Off-road Equipment - 2 skip loaders, 1 paver, 1 roller, 1 water truck.

Off-road Equipment - crane, 4 forklifts, 2 backhoe, 2 dump trucks, air compressor, bore rig, concrete pum, 5 cement trucks 2hrs/day

Off-road Equipment -

Off-road Equipment - excavator, compactor, loader, skid steer, water truck, 2 rollers, trencher

Off-road Equipment - Excavator, loader, skid steer, crusher, water truck, air compressor

Grading - 1.8 ac. new construction footprint. LAUSD estimates: 35 max. export trips per day @ 14 cy/truck x 65 day phase = 31,850 cy.

Demolition - 158,208 sf demo

Trips and VMT - LAUSD estimate: demo hauling 20 trucks/day x 65 days = 2,600 one-way trips. Site prep hauling 35 trucks/day x 65 days = 4,550 one-way trips.

Vehicle Trips - No new student generation. No increase in trips.

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	260.00
tblConstructionPhase	NumDays	300.00	260.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	30.00	0.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	PhaseEndDate	10/14/2022	9/30/2022
tblConstructionPhase	PhaseEndDate	8/19/2022	9/30/2022
tblConstructionPhase	PhaseEndDate	4/30/2021	7/2/2021
tblConstructionPhase	PhaseEndDate	6/25/2021	5/14/2021
tblConstructionPhase	PhaseEndDate	9/16/2022	12/30/2022
tblConstructionPhase	PhaseEndDate	5/14/2021	10/1/2021

Belvedere Middle School Modernization - Construction - South Coast Air Basin, Winter

tblConstructionPhase	PhaseStartDate	9/17/2022	10/4/2021
tblConstructionPhase	PhaseStartDate	6/26/2021	10/4/2021
tblConstructionPhase	PhaseStartDate	8/20/2022	10/3/2022
tblConstructionPhase	PhaseStartDate	5/1/2021	7/5/2021
tblGrading	AcresOfGrading	0.00	75.00
tblGrading	AcresOfGrading	0.00	1.80
tblGrading	MaterialExported	0.00	31,850.00
tblLandUse	LotAcreage	3.59	12.10
tblLandUse	LotAcreage	0.63	0.00
tblOffRoadEquipment	HorsePower	221.00	84.00
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.74
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs

tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	HaulingTripNumber	15,644.00	2,600.00

tblTripsAndVMT	HaulingTripNumber	3,981.00	4,550.00
tblVehicleTrips	WD_TR	13.78	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	9.7435	38.3506	33.4639	0.0907	1.5310	1.9870	2.8814	0.4059	1.8280	1.8896	0.0000	9,400.3685	9,400.3685	1.6768	0.0000	9,438.9565
2022	9.3301	31.1839	32.4483	0.0792	1.2203	1.3754	2.5957	0.3280	1.2947	1.6227	0.0000	7,719.8881	7,719.8881	1.6674	0.0000	7,761.5744
Maximum	**9.7435**	**38.3506**	**33.4639**	**0.0907**	**1.5310**	**1.9870**	**2.8814**	**0.4059**	**1.8280**	**1.8896**	**0.0000**	**9,400.3685**	**9,400.3685**	**1.6768**	**0.0000**	**9,438.9565**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	9.7435	38.3506	33.4639	0.0907	1.4843	1.9870	2.8814	0.3995	1.8280	1.8896	0.0000	9,400.3685	9,400.3685	1.6768	0.0000	9,438.9565
2022	9.3301	31.1839	32.4483	0.0792	1.2203	1.3754	2.5957	0.3280	1.2947	1.6227	0.0000	7,719.8881	7,719.8881	1.6674	0.0000	7,761.5744
Maximum	**9.7435**	**38.3506**	**33.4639**	**0.0907**	**1.4843**	**1.9870**	**2.8814**	**0.3995**	**1.8280**	**1.8896**	**0.0000**	**9,400.3685**	**9,400.3685**	**1.6768**	**0.0000**	**9,438.9565**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**1.69**	**0.00**	**0.00**	**0.87**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.5104	2.1000e-004	0.0231	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0496	0.0496	1.3000e-004		0.0528
Energy	0.0481	0.4372	0.3672	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.6226	524.6226	0.0101	9.6200e-003	527.7402
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**3.5585**	**0.4374**	**0.3903**	**2.6200e-003**	**0.0000**	**0.0333**	**0.0333**	**0.0000**	**0.0333**	**0.0333**		**524.6722**	**524.6722**	**0.0102**	**9.6200e-003**	**527.7930**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.5104	2.1000e-004	0.0231	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0496	0.0496	1.3000e-004		0.0528
Energy	0.0481	0.4372	0.3672	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.6226	524.6226	0.0101	9.6200e-003	527.7402
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**3.5585**	**0.4374**	**0.3903**	**2.6200e-003**	**0.0000**	**0.0333**	**0.0333**	**0.0000**	**0.0333**	**0.0333**		**524.6722**	**524.6722**	**0.0102**	**9.6200e-003**	**527.7930**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/5/2021	7/2/2021	5	65	
2	Site Preparation	Site Preparation	7/5/2021	10/1/2021	5	65	
3	Grading	Grading	5/15/2021	5/14/2021	5	0	
4	Building Construction	Building Construction	10/4/2021	9/30/2022	5	260	
5	Paving	Paving	10/3/2022	12/30/2022	5	65	
6	Architectural Coating	Architectural Coating	10/4/2021	9/30/2022	5	260	

Acres of Grading (Site Preparation Phase): 1.8

Acres of Grading (Grading Phase): 75

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 234,756; Non-Residential Outdoor: 78,252; Striped Parking Area: 1,680 (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
Demolition	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	1	8.00	80	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	0	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	0	8.00	46	0.45
Paving	Skid Steer Loaders	2	8.00	65	0.37
Paving	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Off-Highway Trucks	2	8.00	402	0.38
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Bore/Drill Rigs	1	8.00	84	0.74
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Cement and Mortar Mixers	5	2.00	9	0.56
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Plate Compactors	1	8.00	8	0.43
Site Preparation	Rubber Tired Loaders	1	8.00	203	0.36
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Off-Highway Trucks	1	8.00	402	0.38

Site Preparation	Rollers	2	8.00	80	0.38
Site Preparation	Trenchers	1	8.00	78	0.50
Demolition	Rubber Tired Loaders	1	8.00	203	0.36
Demolition	Skid Steer Loaders	1	8.00	65	0.37
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Off-Highway Trucks	1	8.00	402	0.38
Demolition	Air Compressors	1	8.00	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	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	17	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	2,600.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	8	20.00	0.00	4,550.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0621	17.8566	16.6480	0.0378		0.8022	0.8022		0.7647	0.7647		3,632.5409	3,632.5409	0.9099		3,655.2885
Total	**2.0621**	**17.8566**	**16.6480**	**0.0378**		**0.8022**	**0.8022**		**0.7647**	**0.7647**		**3,632.5409**	**3,632.5409**	**0.9099**		**3,655.2885**

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	0.3118	10.4991	2.4408	0.0302	0.6986	0.0328	0.7315	0.1914	0.0314	0.2228		3,275.8260	3,275.8260	0.2437		3,281.9182
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0450	0.5098	1.5600e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		155.7227	155.7227	4.1900e-003		155.8274
Total	**0.3810**	**10.5441**	**2.9506**	**0.0317**	**0.8663**	**0.0341**	**0.9004**	**0.2359**	**0.0325**	**0.2684**		**3,431.5487**	**3,431.5487**	**0.2479**		**3,437.7456**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0621	17.8566	16.6480	0.0378		0.8022	0.8022		0.7647	0.7647	0.0000	3,632.5409	3,632.5409	0.9099		3,655.2885
Total	**2.0621**	**17.8566**	**16.6480**	**0.0378**		**0.8022**	**0.8022**		**0.7647**	**0.7647**	**0.0000**	**3,632.5409**	**3,632.5409**	**0.9099**		**3,655.2885**

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	0.3118	10.4991	2.4408	0.0302	0.6986	0.0328	0.7315	0.1914	0.0314	0.2228		3,275.8260	3,275.8260	0.2437		3,281.9182
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0450	0.5098	1.5600e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		155.7227	155.7227	4.1900e-003		155.8274
Total	**0.3810**	**10.5441**	**2.9506**	**0.0317**	**0.8663**	**0.0341**	**0.9004**	**0.2359**	**0.0325**	**0.2684**		**3,431.5487**	**3,431.5487**	**0.2479**		**3,437.7456**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0848	0.0000	0.0848	0.0116	0.0000	0.0116			0.0000			0.0000
Off-Road	2.0579	19.9172	16.4447	0.0359		0.9675	0.9675		0.8909	0.8909		3,460.0428	3,460.0428	1.1115		3,487.8298
Total	**2.0579**	**19.9172**	**16.4447**	**0.0359**	**0.0848**	**0.9675**	**1.0523**	**0.0116**	**0.8909**	**0.9024**		**3,460.0428**	**3,460.0428**	**1.1115**		**3,487.8298**

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	0.5457	18.3735	4.2714	0.0528	1.2226	0.0574	1.2801	0.3350	0.0549	0.3900		5,732.6955	5,732.6955	0.4265		5,743.3569
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0922	0.0600	0.6797	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.6302	207.6302	5.5800e-003		207.7698
Total	**0.6380**	**18.4334**	**4.9511**	**0.0549**	**1.4462**	**0.0591**	**1.5053**	**0.3943**	**0.0565**	**0.4508**		**5,940.3257**	**5,940.3257**	**0.4320**		**5,951.1267**

3.3 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0382	0.0000	0.0382	5.2000e-003	0.0000	5.2000e-003			0.0000			0.0000
Off-Road	2.0579	19.9172	16.4447	0.0359		0.9675	0.9675		0.8909	0.8909	0.0000	3,460.0428	3,460.0428	1.1115		3,487.8297
Total	**2.0579**	**19.9172**	**16.4447**	**0.0359**	**0.0382**	**0.9675**	**1.0056**	**5.2000e-003**	**0.8909**	**0.8961**	**0.0000**	**3,460.0428**	**3,460.0428**	**1.1115**		**3,487.8297**

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	0.5457	18.3735	4.2714	0.0528	1.2226	0.0574	1.2801	0.3350	0.0549	0.3900		5,732.6955	5,732.6955	0.4265		5,743.3569
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0922	0.0600	0.6797	2.0800e-003	0.2236	1.6500e-003	0.2252	0.0593	1.5200e-003	0.0608		207.6302	207.6302	5.5800e-003		207.7698
Total	**0.6380**	**18.4334**	**4.9511**	**0.0549**	**1.4462**	**0.0591**	**1.5053**	**0.3943**	**0.0565**	**0.4508**		**5,940.3257**	**5,940.3257**	**0.4320**		**5,951.1267**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.4 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	3.4017	31.5104	27.7441	0.0597		1.5533	1.5533		1.4547	1.4547		5,735.8421	5,735.8421	1.5781		5,775.2944
Total	**3.4017**	**31.5104**	**27.7441**	**0.0597**		**1.5533**	**1.5533**		**1.4547**	**1.4547**		**5,735.8421**	**5,735.8421**	**1.5781**		**5,775.2944**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0887	2.8663	0.7755	7.3900e-003	0.1920	6.0500e-003	0.1980	0.0553	5.7900e-003	0.0611		790.1214	790.1214	0.0537		791.4633
Worker	0.3551	0.2308	2.6170	8.0200e-003	0.8607	6.3700e-003	0.8671	0.2283	5.8700e-003	0.2341		799.3764	799.3764	0.0215		799.9139
Total	**0.4438**	**3.0971**	**3.3924**	**0.0154**	**1.0526**	**0.0124**	**1.0651**	**0.2835**	**0.0117**	**0.2952**		**1,589.4977**	**1,589.4977**	**0.0752**		**1,591.3772**

3.5 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.4017	31.5104	27.7441	0.0597		1.5533	1.5533		1.4547	1.4547	0.0000	5,735.8421	5,735.8421	1.5781		5,775.2944
Total	**3.4017**	**31.5104**	**27.7441**	**0.0597**		**1.5533**	**1.5533**		**1.4547**	**1.4547**	**0.0000**	**5,735.8421**	**5,735.8421**	**1.5781**		**5,775.2944**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0887	2.8663	0.7755	7.3900e-003	0.1920	6.0500e-003	0.1980	0.0553	5.7900e-003	0.0611		790.1214	790.1214	0.0537		791.4633
Worker	0.3551	0.2308	2.6170	8.0200e-003	0.8607	6.3700e-003	0.8671	0.2283	5.8700e-003	0.2341		799.3764	799.3764	0.0215		799.9139
Total	**0.4438**	**3.0971**	**3.3924**	**0.0154**	**1.0526**	**0.0124**	**1.0651**	**0.2835**	**0.0117**	**0.2952**		**1,589.4977**	**1,589.4977**	**0.0752**		**1,591.3772**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0334	26.8058	27.0139	0.0597		1.2811	1.2811		1.2012	1.2012		5,734.4732	5,734.4732	1.5741		5,773.8265
Total	**3.0334**	**26.8058**	**27.0139**	**0.0597**		**1.2811**	**1.2811**		**1.2012**	**1.2012**		**5,734.4732**	**5,734.4732**	**1.5741**		**5,773.8265**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0832	2.7205	0.7345	7.3100e-003	0.1920	5.2700e-003	0.1972	0.0553	5.0400e-003	0.0603		783.0663	783.0663	0.0518		784.3612
Worker	0.3340	0.2085	2.4158	7.7300e-003	0.8607	6.1900e-003	0.8669	0.2283	5.7000e-003	0.2340		770.7537	770.7537	0.0194		771.2392
Total	**0.4172**	**2.9290**	**3.1503**	**0.0150**	**1.0526**	**0.0115**	**1.0641**	**0.2835**	**0.0107**	**0.2943**		**1,553.8200**	**1,553.8200**	**0.0712**		**1,555.6004**

3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.0334	26.8058	27.0139	0.0597		1.2811	1.2811		1.2012	1.2012	0.0000	5,734.4732	5,734.4732	1.5741		5,773.8265
Total	**3.0334**	**26.8058**	**27.0139**	**0.0597**		**1.2811**	**1.2811**		**1.2012**	**1.2012**	**0.0000**	**5,734.4732**	**5,734.4732**	**1.5741**		**5,773.8265**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0832	2.7205	0.7345	7.3100e-003	0.1920	5.2700e-003	0.1972	0.0553	5.0400e-003	0.0603		783.0663	783.0663	0.0518		784.3612
Worker	0.3340	0.2085	2.4158	7.7300e-003	0.8607	6.1900e-003	0.8669	0.2283	5.7000e-003	0.2340		770.7537	770.7537	0.0194		771.2392
Total	**0.4172**	**2.9290**	**3.1503**	**0.0150**	**1.0526**	**0.0115**	**1.0641**	**0.2835**	**0.0107**	**0.2943**		**1,553.8200**	**1,553.8200**	**0.0712**		**1,555.6004**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0429	9.7082	10.8829	0.0247		0.4146	0.4146		0.3814	0.3814		2,393.8997	2,393.8997	0.7742		2,413.2556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0429**	**9.7082**	**10.8829**	**0.0247**		**0.4146**	**0.4146**		**0.3814**	**0.3814**		**2,393.8997**	**2,393.8997**	**0.7742**		**2,413.2556**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0564	0.0352	0.4079	1.3100e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		130.1273	130.1273	3.2800e-003		130.2092
Total	**0.0564**	**0.0352**	**0.4079**	**1.3100e-003**	**0.1453**	**1.0400e-003**	**0.1464**	**0.0385**	**9.6000e-004**	**0.0395**		**130.1273**	**130.1273**	**3.2800e-003**		**130.2092**

3.6 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0429	9.7082	10.8829	0.0247		0.4146	0.4146		0.3814	0.3814	0.0000	2,393.8997	2,393.8997	0.7742		2,413.2556
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0429**	**9.7082**	**10.8829**	**0.0247**		**0.4146**	**0.4146**		**0.3814**	**0.3814**	**0.0000**	**2,393.8997**	**2,393.8997**	**0.7742**		**2,413.2556**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0564	0.0352	0.4079	1.3100e-003	0.1453	1.0400e-003	0.1464	0.0385	9.6000e-004	0.0395		130.1273	130.1273	3.2800e-003		130.2092
Total	**0.0564**	**0.0352**	**0.4079**	**1.3100e-003**	**0.1453**	**1.0400e-003**	**0.1464**	**0.0385**	**9.6000e-004**	**0.0395**		**130.1273**	**130.1273**	**3.2800e-003**		**130.2092**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.6099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**5.8288**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0450	0.5098	1.5600e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		155.7227	155.7227	4.1900e-003		155.8274
Total	**0.0692**	**0.0450**	**0.5098**	**1.5600e-003**	**0.1677**	**1.2400e-003**	**0.1689**	**0.0445**	**1.1400e-003**	**0.0456**		**155.7227**	**155.7227**	**4.1900e-003**		**155.8274**

3.7 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.6099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**5.8288**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0692	0.0450	0.5098	1.5600e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		155.7227	155.7227	4.1900e-003		155.8274
Total	**0.0692**	**0.0450**	**0.5098**	**1.5600e-003**	**0.1677**	**1.2400e-003**	**0.1689**	**0.0445**	**1.1400e-003**	**0.0456**		**155.7227**	**155.7227**	**4.1900e-003**		**155.8274**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.6099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	**5.8145**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**		**281.4481**	**281.4481**	**0.0183**		**281.9062**

Unmitigated Construction Off-Site

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

3.7 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	5.6099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	**5.8145**	**1.4085**	**1.8136**	**2.9700e-003**		**0.0817**	**0.0817**		**0.0817**	**0.0817**	**0.0000**	**281.4481**	**281.4481**	**0.0183**		**281.9062**

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior High School	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Junior High School	16.60	8.40	6.90	72.80	22.20	5.00	63	25	12
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior High School	0.553363	0.042540	0.203692	0.115607	0.014606	0.005830	0.021800	0.032323	0.002120	0.001725	0.004837	0.000711	0.000846
Parking Lot	0.553363	0.042540	0.203692	0.115607	0.014606	0.005830	0.021800	0.032323	0.002120	0.001725	0.004837	0.000711	0.000846

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0481	0.4372	0.3672	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.6226	524.6226	0.0101	9.6200e-003	527.7402
NaturalGas Unmitigated	0.0481	0.4372	0.3672	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.6226	524.6226	0.0101	9.6200e-003	527.7402

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Junior High School	4459.29	0.0481	0.4372	0.3672	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.6226	524.6226	0.0101	9.6200e-003	527.7402
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0481**	**0.4372**	**0.3672**	**2.6200e-003**		**0.0332**	**0.0332**		**0.0332**	**0.0332**		**524.6226**	**524.6226**	**0.0101**	**9.6200e-003**	**527.7402**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Junior High School	4.45929	0.0481	0.4372	0.3672	2.6200e-003		0.0332	0.0332		0.0332	0.0332		524.6226	524.6226	0.0101	9.6200e-003	527.7402
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0481**	**0.4372**	**0.3672**	**2.6200e-003**		**0.0332**	**0.0332**		**0.0332**	**0.0332**		**524.6226**	**524.6226**	**0.0101**	**9.6200e-003**	**527.7402**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.5104	2.1000e-004	0.0231	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0496	0.0496	1.3000e-004		0.0528
Unmitigated	3.5104	2.1000e-004	0.0231	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0496	0.0496	1.3000e-004		0.0528

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	0.3996					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1300e-003	2.1000e-004	0.0231	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0496	0.0496	1.3000e-004		0.0528
Total	**3.5104**	**2.1000e-004**	**0.0231**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0496**	**0.0496**	**1.3000e-004**		**0.0528**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3996					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.1087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.1300e-003	2.1000e-004	0.0231	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0496	0.0496	1.3000e-004		0.0528
Total	**3.5104**	**2.1000e-004**	**0.0231**	**0.0000**		**8.0000e-005**	**8.0000e-005**		**8.0000e-005**	**8.0000e-005**		**0.0496**	**0.0496**	**1.3000e-004**		**0.0528**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX B

Tree Inventory/Evaluation

Arbor Essence

December 6, 2017

Mr. Blair Ripplinger
155 S. Fair Oaks Avenue
Pasadena, CA 91105

Regarding: Tree Inventory/Evaluation
Belvedere Middle School
312 N Record Ave.
Los Angeles, CA

Dear Mr. Ripplinger,

At your request I visited the referenced site November 29, 2017. The purpose of this site visit was to inventory and evaluate trees on site as outlined in the City of Los Angeles Tree Protection Ordinance.

Any and all protected trees, and significant trees were inventoried and evaluated as part of this study. Protected tree species include native oak (*Quercus* sp.), So. California black walnut (*Juglans californica*), Western sycamore (*Platanus racemosa*) and California bay (*Umbellularia californica*), with trunk diameters of 4" inches and larger; significant trees include any species with a trunk diameter of 8" and greater.

A total of 73 trees are included in this study. All trees are identified with a numbered metal tag attached to the trunk. All trees have been located using GPS coordinates. Tree number, species, specifications and condition rating are detailed in matrix spreadsheet. There is only 1 protected tree on site, which is California sycamore tree #1.

Tree evaluation and rating system

Please refer to tree evaluation forms and matrix for specific tree information and specifications.

A – Outstanding: A healthy, sound and vigorous tree characteristic of its species and reasonably free of any visible signs of stress, structural problems, disease or pest infestation

B – Above average: A healthy, sound and vigorous tree with minor signs of stress, disease and or pest infestation

C – Average: Although healthy in overall appearance there exists an abnormal amount of stress, pest infestation or visual signs of minor structural problems. Survivability of tree not threatened.

D – Below Average/Poor: This tree is characterized by exhibiting a great degree of stress, pests or diseases, and appears to be in a rapid state of decline. The degree of decline can vary greatly and may include dieback or advanced stages of pests or diseases. There may also be visual signs of structural problems such as cavities, decay or damaged roots

F – Dead: This tree exhibits no sign of life whatsoever

It should be noted that the study of trees is not an exact science and arboriculture does not detect or predict with any certainty. The arborist therefore is not responsible for tree defects or soil conditions that cannot be identified by a prudent and reasonable inspection.

If you have any questions or require other services please contact me at the number listed below.

Respectfully,
Arbor Essence



Kerry Norman
ASCA, Registered Consulting Arborist #471
ISA Board-Certified Master Arborist #WE-3643B
ISA Tree Risk Assessor Qualification

ARBORIST TREE SURVEY & RECOMMENDATIONS | 5.3.3



TREE EVALUATION

- Protected Tree
- Preserve Tree
- Remove Tree
- Neutral

Please Refer to Tree Survey Matrix for Tree Diameter, Height, Canopy and Evaluation Condition and Rating.

Paving and LID, and DROPS Project

Tree #	X - Coord	Y - Coord	Common Name	Botanical Name	DSH	Ht	Canopy	Health	Struct.	Arborist Remmendations	Arborist Comments/ Impact	Landscape Arch Recommendations	Landscape Arch. Comments/Impact
1	-118.1816509	34.0382512	CA Sycamore	Platanus racemosa	18"	30'	30'	C	C	Protected		Protected	
2	-118.1819648	34.03824231	Paperbark tree	Melaleuca quinquenervia	9"	25'	12'	B	C	Preserve		Preserve	
3	-118.1820238	34.03824231	Paperbark tree - 2 stems	Melaleuca quinquenervia	5"/10"	22'	15'	C-	C	Remove	Stressed	Remove	
4	-118.1820908	34.03823676	Paperbark tree	Melaleuca quinquenervia	11"	24'	18'	C	C	Remove		Remove	
5	-118.1821565	34.03824342	Italian cypress	Cupressus sempervirens	9"	30'	4'	C	B	Preserve		Remove	Rat nest harbor
6	-118.1821565	34.03835233	Italian cypress	Cupressus sempervirens	9"	30'	4'	C	B	Preserve		Remove	Rat nest harbor
7	-118.1821565	34.03839345	Italian cypress	Cupressus sempervirens	8"	26'	4'	C	B	Preserve		Remove	Rat nest harbor
8	-118.1820513	34.03840346	Aleppo pine	Pinus halepensis	12'	25'	15'	C-	C	Remove	Stressed	Preserve	
9	-118.1820841	34.0384029	Aleppo pine	Pinus halepensis	13"	30'	20'	C	C	Neutral		Remove	Crowded - open up
10	-118.1821173	34.03840373	Aleppo pine	Pinus halepensis	12"	30'	20'	C	C-	Neutral		Preserve	
11	-118.1821572	34.03851292	Italian cypress	Cupressus sempervirens	8"	30'	4'	C	B	Preserve		Remove	Rat nest harbor
12	-118.1821565	34.03856682	Italian cypress	Cupressus sempervirens	14"	33'	8'	C	B	Preserve		Remove	Rat nest harbor
13	-118.1820787	34.03857238	Gold Medallion Tree - 3 stems	Cassia leptophylla	5"/6"/8"	16'	20'	D	D	Remove	In decline, insect damage	Remove	
14	-118.181954	34.03856793	Canary Island pine	Pinus canariensis	32"	70'	30'	C	B	Preserve		Preserve	
15	-118.1817743	34.03856904	Floss silk	Chorisia speciosa	18"	30'	40'	C-	C-	Remove	Stressed	Remove	
16	-118.1817006	34.03866573	Mexican fan palm	Washingtonia robusta		60'		C	B	Preserve		Remove	Maintenance problem
17	-118.1821632	34.03875797	Weeping mulberry	Morus species	9"	9'	7'	C	C	Neutral		Remove	
18	-118.1821418	34.03884687	Red river gum	Eucalyptus camaldulensis	23"	70'	40'	C	C	Preserve		Preserve	
19	-118.1820586	34.03884576	Shamel ash	Fraxinus uhdei	16"	40'	25'	C	C-	Neutral		Remove	Terrible conformation
20	-118.1819882	34.03884076	Canary island pine	Pinus canariensis	14"	60'	20'	C	C-	Preserve		Preserve	
21	-118.1819567	34.03882131	Canary island pine	Pinus canariensis	16"	65'	30'	C	C-	Preserve		Preserve	

Tree #	X - Coord	Y - Coord	Common Name	Botanical Name	DSH	Ht	Canopy	Health	Struct.	Arborist Remmendations	Arborist Comments/ Impact	Landscape Arch Recommendations	Landscape Arch. Comments/Impact
22	-118.1819272	34.03884243	Canary island pine	Pinus canariensis	13"	50'	20'	C	C-	Preserve		Remove	Severe lean - could topple
23	-118.1819949	34.03840623	Aleppo pine	Pinus halepensis	13"	30'	20'	C	C	Preserve		Preserve	
24	-118.1818186	34.03841012	Aleppo pine	Pinus halepensis	12"	25'	20'	C	C	Neutral		Preserve	
25	-118.1817703	34.03841235	Aleppo pine	Pinus halepensis	15"	25'	18'	C	C-	Neutral		Preserve	
26	-118.181726	34.03841235	Aleppo pine	Pinus halepensis	15"	35'	25'	C-	C-	Remove	Stressed	Remove	
27	-118.1815611	34.03918693	So. African wild plum	Harpephyllum caffrum	16"	25'	25'	C	C	Preserve		Remove	Not on approved list - very messy fruit drops. Draws rats.
28	-118.1817542	34.03914248	Bottle brush - 2 stems	Melaleuca citrina	6"/6"	30'	20'	B	C-	Neutral		Neutral	
29	-118.1817542	34.03907469	American sweet gum	Liquidambar styraciflua	8"	30'	20'	C	C-	Neutral	Prone to disease	Remove	Severe root problem with concrete & sewer & water lines
30	-118.1819715	34.03907691	American sweet gum	Liquidambar styraciflua	9"	40'	20'	C	C-	Neutral	Prone to disease	Remove	Severe root problem with concrete & sewer & water lines
31	-118.1819272	34.03914137	Twisted juniper	Juniperus chinensis 'Torulosa'	9"	20'	12'	C	C-	Neutral		Remove	Terrible conformation
32	-118.1820077	34.03913581	Bottle brush - 2 stems	Melaleuca citrina	5"/8"	25'	18'	C	C-	Neutral		Remove	Too close to building
33	-118.1820627	34.0391397	Bottle brush - 2 stems	Melaleuca citrina	4"/4"	16'	10'	C	C-	Neutral		Remove	Too close to building
34	-118.1816496	34.0392764	King palm	Archontophoenix cunninghamiana	4"/7"	6'/8'		B	B	Preserve		Preserve	
35	-118.1816731	34.03954367	Evergreen elm	Ulmus parvifolia	16"	35'	35'	C	C-	Neutral		Remove	Highly allergenic (hay fever) Poor conformation
36	-118.1817636	34.03953811	Evergreen elm	Ulmus parvifolia	9"	30'	30'	C	C-	Neutral		Remove	Highly allergenic (hay fever) Poor conformation
37	-118.1817696	34.03960368	Evergreen elm	Ulmus parvifolia	9"	30'	25'	C	C	Neutral		Remove	Highly allergenic (hay fever) Poor conformation
38	-118.1817743	34.03971258	Evergreen elm	Ulmus parvifolia	10"	30'	25'	C-	C	Neutral	Stressed	Remove	Highly allergenic (hay fever) Poor conformation

Tree #	X - Coord	Y - Coord	Common Name	Botanical Name	DSH	Ht	Canopy	Health	Struct.	Arborist Remmendations	Arborist Comments/ Impact	Landscape Arch Recommendations	Landscape Arch. Comments/Impact
39	-118.181773	34.03978482	Evergreen elm	Ulmus parvifolia	11"	30'	30'	C	C-	Neutral		Remove	Highly allergenic (hay fever) Poor conformation
40	-118.1817716	34.03983927	Evergreen elm	Ulmus parvifolia	12"	35'	30'	C	C	Neutral		Remove	Highly allergenic (hay fever) Poor conformation
41	-118.1816918	34.03978649	Evergreen elm	Ulmus parvifolia	9"	25'	22'	D	C-	Neutral	Stressed, in decline	Remove	Highly allergenic (hay fever) Poor conformation
42	-118.1816992	34.03971703	Evergreen elm	Ulmus parvifolia	9"	25'	20'	D	C-	Neutral	Stressed, in decline	Remove	Highly allergenic (hay fever) Poor conformation
43	-118.1816188	34.03976815	Carob - 3 stems	Ceratonia siliqua	8"/11"/11"	25'	20'	D	D	Remove	Stressed, in decline	Remove	
44	-118.1816221	34.03971425	Carob	Ceratonia siliqua	25"	25'	25'	D	D	Remove	In decline, diseased	Remove	
45	-118.1815812	34.03962646	Carrotwood	Cupaniopsis anacardioides	8"	18'	15'	C	C	Neutral		Remove	Poor conformation
46	-118.1815846	34.03953811	Carrotwood	Cupaniopsis anacardioides	8"	18'	15'	C-	C	Remove	Stressed	Remove	
47	-118.1816067	34.04011654	Carrotwood	Cupaniopsis anacardioides	12"	25'	25'	B	B	Preserve		Remove	Tree is much too large for area, will spread to 35'. Becomes a maintenance problem
48	-118.1816087	34.040181	Canary island pine	Pinus canariensis	20"	70'	20'	C	C	Preserve		Preserve	
49	-118.1816845	34.04017044	Carrotwood	Cupaniopsis anacardioides	10"	20'	20'	B	B	Preserve		Remove	Tree is much too large for area, will spread to 35'. Becomes a maintenance problem
50	-118.1817824	34.04012599	Carrotwood	Cupaniopsis anacardioides	10"	20'	20'	B	C-	Preserve		Remove	Tree is much too large for area, will spread to 35'. Becomes a maintenance problem

Tree #	X - Coord	Y - Coord	Common Name	Botanical Name	DSH	Ht	Canopy	Health	Struct.	Arborist Remmendations	Arborist Comments/ Impact	Landscape Arch Recommendations	Landscape Arch. Comments/Impact
51	-118.1817877	34.04018211	Canary island pine	Pinus canariensis	11"	50'	12'	C	C	Preserve		Preserve	
52	-118.1818689	34.04018378	Carrotwood	Cupaniopsis anacardioides	9"	20'	20'	B	C-	Preserve		Remove	Tree is much too large for area, will spread to 35'. Becomes a maintenance problem
53	-118.1819151	34.04017766	Canary island pine	Pinus canariensis	20"	60'	20'	B	B	Preserve		Preserve	
54	-118.182013	34.04005931	Brazilian pepper	Schinus terebinthefolius	12"	25'	20'	B	C	Preserve		Remove	Invasive root suckers
55	-118.1813465	34.0404316	Paperbark tree - 2 stems	Melaleuca quinquenervia	9"/11"	35'	25'	C	C	Preserve		Preserve	
56	-118.1812191	34.04043493	Paperbark tree - 2 stems	Melaleuca quinquenervia	9"/10"	30'	20'	C	C	Preserve		Preserve	
57	-118.1821565	34.03889132	Lemon scented gum	Corymbia citriodora	21"	70'	40'	C	C	Preserve		Preserve	
58	-118.1821572	34.038918	Lemon scented gum	Corymbia citriodora	12"	45'	18'	C	C	Preserve		Preserve	
59	-118.1821512	34.03915248	Arborvitae	Thuja occidentalis	14"	25'	20'	C	C-	Neutral		Remove	Rat nest harbor
60	-118.1821679	34.03918888	Lemon scented gum	Corymbia citriodora	15"	70'	30'	C	C	Preserve		Preserve	
61	-118.1821451	34.03920499	Laurel leaf cocculus	Cocculus laurifolius	10"	20'	25'	C	C-	Neutral		Preserve	
62	-118.1821505	34.03928251	Lemon scented gum	Corymbia citriodora	19"	65'	30'	C	C	Preserve		Preserve	
63	-118.1821465	34.03931251	Arborvitae - 2 stems	Thuja occidentalis	4"/6"	25'	12'	C	B	Preserve		Remove	Rat nest harbor
64	-118.1821458	34.03932863	Arborvitae	Thuja occidentalis	9"	30'	15'	C	B	Preserve		Remove	Rat nest harbor
65	-118.1821237	34.03932863	Arborvitae	Thuja occidentalis	9"	30'	15'	C	B	Preserve		Remove	Rat nest harbor
66	-118.1821036	34.03950533	Deodar cedar	Cedrus deodara	15"	40'	20'	D	C	Remove	Tree failing, diseased	Remove	
67	-118.1821083	34.0395959	Deodar cedar	Cedrus deodara	16"	60'	30'	C-	B	Remove	Stress and decline symptoms	Remove	
68	-118.1821089	34.03974259	Deodar cedar	Cedrus deodara	16"	50'	40'	C	B	Preserve	High-water use	Remove	Low water use tree in high water lawn

Tree #	X - Coord	Y - Coord	Common Name	Botanical Name	DSH	Ht	Canopy	Health	Struct.	Arborist Remmendations	Arborist Comments/ Impact	Landscape Arch Recommendations	Landscape Arch. Comments/Impact
69	-118.1820613	34.0400582	Naked coral tree	Erythrina corralloides	16"	20'	15'	D	D	Remove	In decline/ diseased	Remove	
70	-118.182175	34.04015905	Italian cypress	Cupressus sempervirens	10"	20'	6'	C	C	Preserve		Remove	Rat nest harbor
71	-118.182178	34.04032825	Italian cypress	Cupressus sempervirens	10"	20'	5'	C	C	Preserve		Remove	Rat nest harbor
72	-118.182001	34.04043493	Canary island pine	Pinus canariensis	21"	70'	20'	C	C	Preserve		Preserve	
73	-118.1814712	34.04042715	Canary island pine	Pinus canariensis	16"	60'	12'	C	C	Preserve		Remove	Spindly form because tree requires more sun

EXISTING TREES PHOTOS | 5.4.1



CA Sycamore #1



Melaleuca #2-4, left to right



It' cypress #5-7, left to right



Pines #8-10 right to left



lt. Cypress #11 & 12, left to right



Acacia #13



Pine #14



Floss silk #15



Palm #16



Mulberry #17



Eucalyptus #18



Ash #19



Pines #20-22



Pine #23



Pine #24-26, right to left



Wild plum, Harpephyllum #27



Bottlebrush #28



Liquidambar #29



Liquidambar #30



Juniper #31



Bottlebrush #32



Bottlebrush #33



King palm #34



Elm #35



Elms #36 & 37, left to right



Elm #38



Elms #39 & 40, left to right



Elm #41



Elm #42



Carob #43



Carob #44



Carrotwood #45



Carrotwood #46



Carrotwood #47



Pine #48



Carrotwood #49



Carrotwood #50



Pine #51



Carrotwood #52



Pine #53



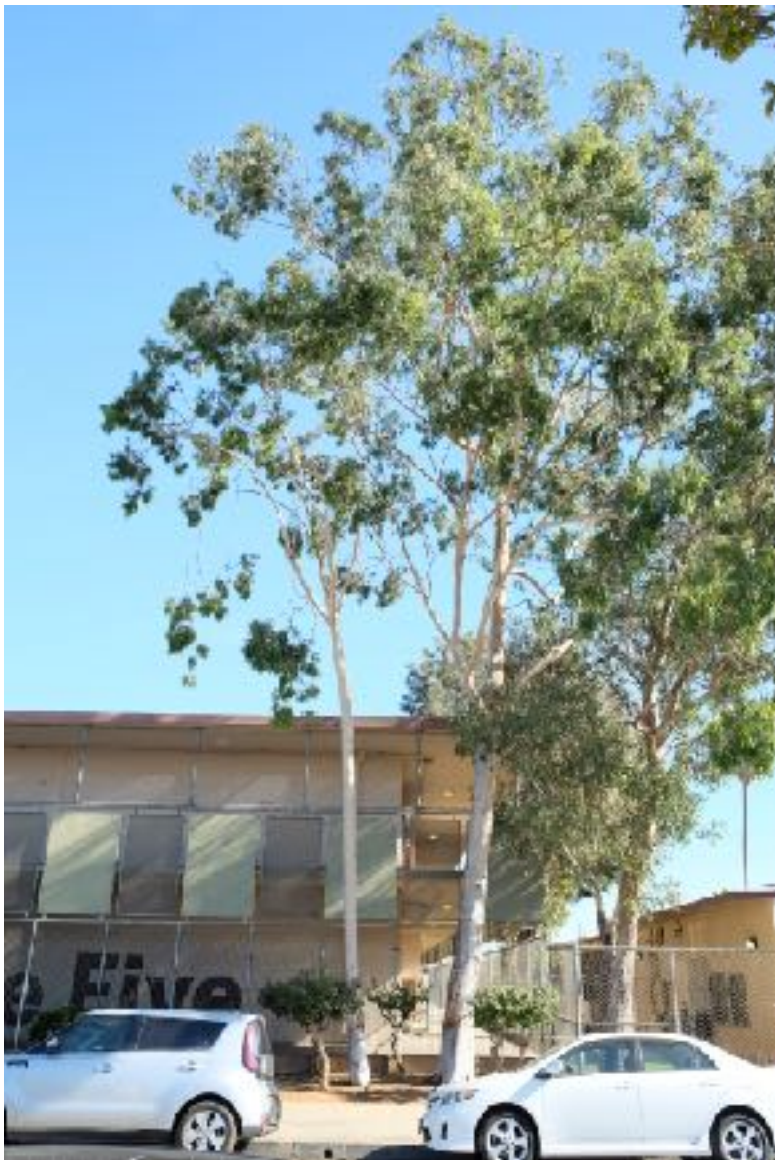
Braz. Pepper #54



Melaleuca #55



Melaleuca #56



Eucalyptus #57 & 58, right to left



Arborvitae #59



Eucalyptus #60



Cocculus #61



Eucalyptus #62



Arborviate #63-65, right to left



Cedar cedar#66



Deodar cedar #67



Deodar cedar #68



Coral tree #69



It. Cypress #70



It. Cypress #71



Pine #72



Pine #73

APPENDIX C

Historical Resources Evaluation Report



Belvedere Middle School

Historical Resources Evaluation Report

prepared for

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

Contact: Gwenn Godek
Contract Professional/CEQA Advisor

prepared by
Rincon Consultants, Inc.
250 East 1st Street, Suite 301
Los Angeles, California 90012

June 2018

Rincon Consultants, Inc.
Environmental Scientists Planners Engineers
www.rinconconsultants.com

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Appendices

Appendix A Resource Records

1 Executive Summary

Rincon Consultants, Inc. (Rincon) was retained by the Los Angeles Unified School District (LAUSD) to complete a historical resources evaluation of the Belvedere Middle School campus (subject campus), located at 312 North Record Avenue, Los Angeles California. The subject campus is located in the vicinity of the Belvedere community of East Los Angeles in an unincorporated portion of Los Angeles County. Established on the site in 1924, Belvedere Middle School is an example of a school that was highly modified and greatly expanded after the Long Beach earthquake. The buildings that compose the present-day campus were constructed primarily between 1924 and 1970 on two contiguous parcels. As of 2018, the campus occupies roughly 12 acres and includes 19 permanent and three portable buildings and structures

This evaluation was prepared to inform future planning efforts and to facilitate compliance with LAUSD's cultural resource policies and the California Environmental Quality Act (CEQA), which requires lead agencies to consider the impacts of proposed projects on historical resources. All work completed as part of the current effort was conducted in accordance with the requirements of CEQA and applicable local regulations. The current study included background research, an intensive-level field survey, and preparation of this Historical Resources Evaluation Report.

Based on the current study, Belvedere Middle School and its buildings are recommended as ineligible for federal, state, or local designation under any applicable criteria. The Administrative Building, Home Economics Building, Shop Building, and Academic Building are the oldest buildings on the campus, dating to the mid-to-late 1920s. Each of these four buildings were extensively altered after the 1933 Long Beach earthquake and in subsequent decades. The application of Public Works Administration (PWA) Moderne detailing, popular during the 1930s and early 1940s, may have had the potential to have acquired significance in its own right, but subsequent alterations, including most notably the wholesale replacement of windows in the 1980s and an addition to the Administrative Building, have resulted in a loss of integrity of design, materials, and workmanship. As a result, these buildings no longer retain architectural integrity and do not meet the registration requirements outlined in *Los Angeles Unified School District, Historic Context Statement, 1870-1969*.[1] The subject campus also includes a number of buildings that were developed in the decades after World War II, but they were constructed intermittently over a period of twenty years and are not representative of LAUSD design principles of the postwar era. The campus does not appear eligible for federal, state, or local designation under any applicable criteria and is not considered a historical resource for the purposes of CEQA.

Rincon Senior Architectural Historian Steven Treffers served as the project lead, with oversight and quality assurance/quality control provided by Architectural History Program Manager Shannon Carmack. Additional assistance was provided by Rincon architectural historians Rachel Perzel and Susan Zamudio-Gurrola. All of these individuals meet and exceed the Secretary of the Interior's Professional Qualifications Standards for Architectural History and History.

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

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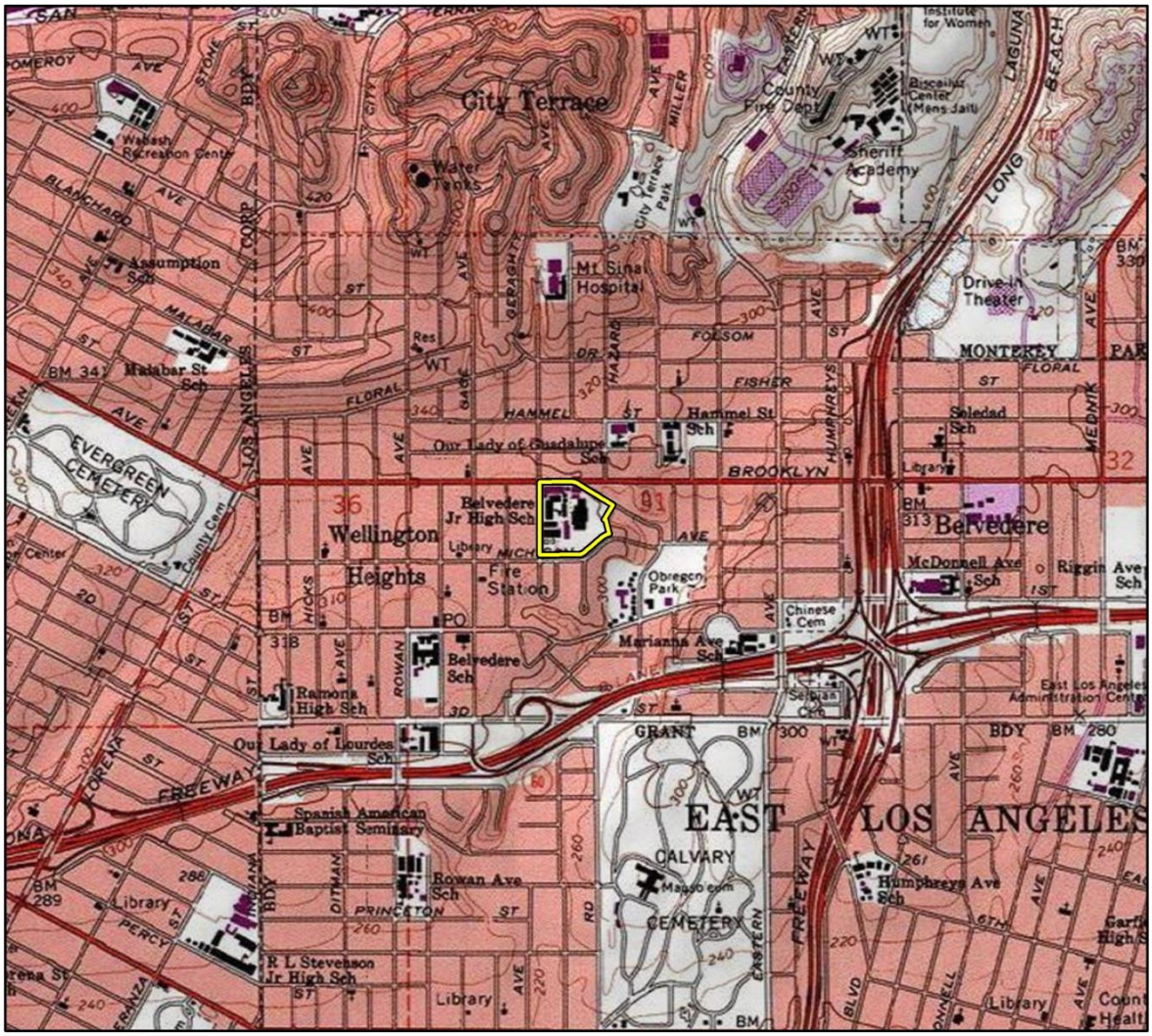
2 Introduction

Belvedere Middle School is located in the vicinity of the Belvedere community of East Los Angeles in an unincorporated portion of Los Angeles County, roughly 0.75 mile from the intersection of Interstate 710 and California State Route 60 (Figure 1). The school boundary spans two contiguous parcels totaling 12.1 acres (Figure 2). The western two-thirds of the parcel is developed with 22 buildings and structures sited around courtyards and paved areas, while the eastern third is occupied with athletic fields. The campus is located in a dense residential neighborhood. Cesar E. Chavez Avenue borders the campus directly to the north and functions as a commercial corridor, in particular to the west of the campus parcel.

Figure 1 Vicinity Map



Imagery provided by National Geographic Society, ESRI and its licensors © 2017. Los Angeles Quadrangle. T02S R12W S31. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may have changed since the original topographic map was assembled.

Figure 2 Location Map



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

CRFig 2 Project Site Map

2.1 Regulatory Framework

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

National Register of Historic Places

The NRHP was established by the National Historic Preservation Act of 1966 as "an authoritative guide to be used by federal, state, and local governments, private groups and citizens to identify the Nation's cultural resources and to indicate what properties should be considered for protection from destruction or impairment."[2] The NRHP recognizes properties that are significant at the national, state, and local levels. To be eligible for listing in the NRHP, a resource must be significant in American history, architecture, archaeology, engineering, or culture. A property is eligible for the NRHP if it is significant under one or more of the following criteria:

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

In addition to meeting at least one of the above designation criteria, resources must also retain integrity, or enough of their historic character or appearance, to be "recognizable as historical resources and to convey the reasons for their significance."[3] The National Park Service recognizes seven aspects or qualities that, considered together, define historic integrity. To retain integrity, a property must possess several, if not all, of these seven qualities, which are defined in the following manner:

1. **Location.** The place where the historic property was constructed or the place where the historic event occurred
2. **Design.** The combination of elements that create the form, plan, space, structure, and style of a property
3. **Setting.** The physical environment of a historic property
4. **Materials.** The physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property

[2] Code of Federal Regulations 36, Code of Federal Regulations 60.2.

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

5. **Workmanship.** The physical evidence of the crafts of a particular culture or people during any given period in history or prehistory
6. **Feeling.** A property's expression of the aesthetic or historic sense of a particular period of time
7. **Association.** The direct link between an important historic event or person and a historic property[4]

California Register of Historical Resources

Created in 1992 and implemented in 1998, the CRHR is "an authoritative guide in California to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change."[5] Certain properties, including those listed in or formally determined eligible for listing in the NRHP and California Historical Landmarks numbered 770 and higher, are automatically included in the CRHR. Other properties recognized under the California Points of Historical Interest program, identified as significant in historical resources surveys, or designated by local landmarks programs may be nominated for inclusion in the CRHR. According to PRC Section 5024.1(c), a resource, either an individual property or a contributor to a historic district, may be listed in the CRHR if the State Historical Resources Commission determines that it meets one or more of the following criteria, which are modeled on NRHP criteria:

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

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

County of Los Angeles Historic Landmarks

The Belvedere Middle School Campus is located in an unincorporated portion of Los Angeles County. On September 1, 2015 the County of Los Angeles Board of Supervisors adopted a Historic Preservation Ordinance (HPO) that outlines criteria and procedures for the designation of landmarks and historic districts within unincorporated areas of Los Angeles County. According to the HPO, a structure, site, object, tree, landscape, or natural land feature may be designated as a landmark if it is 50 years of age or older and satisfies one or more of the following criteria:

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

[5] Public Resources Code, Sections 21083.2 and 21084.1

- **Criterion 1.** It is associated with events that have made a significant contribution to the broad patterns of the history of the nation, state, county, or community in which it is located.
- **Criterion 2.** It is associated with the lives of persons who are significant in the history of the nation, state, county, or community in which it is located.
- **Criterion 3.** It embodies the distinctive characteristics of a type, architectural style, period, or method of construction, or represents the work of an architect, designer, engineer, or builder whose work is of significance to the nation, state, county, or community in which it is located; or possesses artistic values of significance to the nation, state, county, or community in which it is located.
- **Criterion 4.** It has yielded, or may be likely to yield, significant and important information regarding the prehistory or history of the nation, state, county, or community in which it is located.
- **Criterion 5.** It is listed, or has been formally determined eligible by the United States National Park Service for listing, in the NHRP, or is listed, or has been formally determined eligible by the State Historical Resources Commission for listing, on the California Register of Historical Resources.
- **Criterion 6.** If it is a tree, it is one of the largest or oldest trees of the species located in the county.
- **Criterion 7.** If it is a tree, landscape, or other natural land feature, it has historical significance due to an association with an historic event, person, site, street, or structure, or because it is a defining or significant outstanding feature of a neighborhood. [6]

LAUSD Historic Context Statement, 1870 to 1969

In addition to using all applicable criteria of significance, this evaluation utilized the methodology and framework for evaluations described in the 2014 *LAUSD Historic Context Statement*. Adopted by the LAUSD Board of Education, the *LAUSD Historic Context Statement* offers a consistent, standard approach for evaluation schools and campuses throughout the District. The document utilizes the NRHP Multiple Property Documentation (MPD) format, which provides a comparative, context-driven framework for evaluating related properties. As discussed in that document, "the MPD approach defines themes of significance, eligibility standards, and related property types. Properties sharing a theme of significance are then assessed consistently, in comparison with resources that share similar physical characteristics and historical associations."[7]

2.2 Methods

This historical resources evaluation was completed in accordance with recognized professional standards, following the Secretary of the Interior's Standards for Preservation Planning, Identification, Evaluation and Registration; California Office of Historic Preservation; and National Park Service professional standards and guidelines. Applicable national, state, and local level criteria were considered, as were the context-driven methods and framework used in *LAUSD Historic Context Statement, 1869-1970*. As a school that is located in a historically Latino neighborhood, a number of historic context statements and other guidance documents relating to the identification

[6] Los Angeles County Code of Ordinances, Ord. 2015-0033 § 3, 2015.
[7] Sapphos Environmental, Inc. *Los Angeles Unified School District: Historic Context Statement, 1870 to 1969* (Los Angeles Unified School District Office of Environmental Health and Safety, March 2014).

and evaluation of properties associated with the Latino Civil Rights Movement were also considered, including but not limited to:

- *Latinos in Twentieth Century California*: *National Register of Historic Places Context Statement*[8]
- Chicano Moratorium in Los Angeles County, NRHP Multiple Property Documentation Form[9]
- *SurveyLA Latino Los Angeles Historic Context Statement*[10]
- *Racial Desegregation in Public Education in the United States: Theme Study*[11]

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

- Post-1994 Northridge Earthquake Historical Resources Surveys: These surveys were conducted for the Federal Emergency Management Agency in support of compliance with Section 106 of the National Preservation Act and recorded 71 LAUSD campuses.
- Phase 1 and 2 Getty Surveys: These surveys were conducted in two multi-year phases between 2001 and 2004 and expanded on the post-Northridge Earthquake surveys, covering approximately 410 LAUSD campuses.[12]
- 2014 LAUSD Historic Resources Survey: Completed in 2014, this historic resources survey included 55 LAUSD campuses, which at the time of survey were over 45 years of age. Of these, 14 were found eligible for NRHP and/or CRHR listing.[13]

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

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[8] California Office of Historic Preservation, *Latinos in Twentieth Century California*: *National Register of Historic Places Context Statement* (California State Parks, Sacramento, CA, 2015).

[9] Teresa Grimes and Becky Nicolaides, Chicano Moratorium in Los Angeles County, NRHP Multiple Property Documentation Form (National Park Service, Washington D.C., 2017).

[10] GPA Consulting and Becky Nicolades, *SurveyLA Latino Los Angeles Historic Context Statement* (Los Angeles Office of Historic Resources, Los Angeles, CA, 2015).

[11] Susan Cianci Salvatore et al,, *Racial Desegregation in Public Education in the United States: Theme Study* (National Park Service, Washington D.C., 2017).

[12] Leslie Heumann, Science Applications International Corporation, "Historic Resources Survey of the Los Angeles Unified School District," (Pasadena, CA, 2002-2004).

[13] Sapphos Environmental, Inc., LAUSD Historic Resources Survey Report.

Rachel Perzel conducted an intensive-level survey of the subject campus on September 8, 2017. All buildings and structures on the subject campus were photographed and documented in field notes describing character-defining features, materials, and alterations. The survey included both the exterior and interior of campus buildings. The campus and its buildings were recorded on California Department of Parks and Recreation 523 series forms, included in Appendix A of this report.

The subject campus was evaluated for listing in the NRHP, CRHR, and local designation using applicable criteria, and the consistent framework and registration requirements of the *LAUSD Historic Context Statement, 1869-1970*. Campus buildings were considered both individually as well as collectively as potential historic districts.

For buildings found to meet federal, state, and/or local designation criteria, an integrity assessment was prepared in Section 7 of this report to determine if they are able to convey their significance. The analysis considered the seven aspects of integrity as defined by the National Park Service and include a detailed explanation of why and how a property does or does not retain integrity. An integrity assessment was not completed for those buildings that did not appear to meet applicable designation criteria.

2.3 Previous Historical Resource Surveys

Because the Belvedere Middle School campus is located in an unincorporated section of Los Angeles County, it was not surveyed as part of SurveyLA, the Los Angeles Office of Historic Resources' citywide historic resources survey. However, in 2002, in fulfillment of a Planning Grant provided under the Preserve Initiative of the J. Paul Getty Trust, the LAUSD conducted its first systematic survey in an effort to identify historically significant school properties in the district. The survey focused on school buildings and campuses constructed before 1945. The Belvedere Middle School campus was evaluated as part of this survey and found to be ineligible for the NRHP, CRHR, or for local designation at that time.

3 Campus Site Description and History

3.1 Overview Description

The Belvedere Middle School campus occupies two contiguous, irregularly-shaped parcels totaling approximately 12 acres. The western two-thirds of the campus are developed with three rows of buildings symmetrically organized and surrounded with paved and designed landscaped areas, while the rear (eastern) third of the campus is occupied with a large area used as an athletic field and green space. The primary entry to the campus is located mid-block on North Record Avenue, near the centrally located Administrative Building, which is set back from the street behind a landscaped area. Excluding storage buildings, the campus has 19 permanent and three portable buildings and structures.

Initially established in 1924, the campus buildings were altered extensively following the 1933 Long Beach earthquake and the school was continually redeveloped through the construction of additional buildings to meet demand of increasing population in the years after World War II. The original campus core is located in the central western area of the campus and defined by four 1920s-era buildings, generally organized around a large rectangular interior courtyard. These include the Administrative Building (1924), the Home Economics Building (1924), the Shop Building (1929), and the Academic Building (1929).

In large part, these buildings are connected through a series of outdoor covered corridors and share a number of common characteristics. They are generally rectangular in massing and plan (with the exception of the L-planned Administrative Building), two and three stories in height, and capped with flat or flat-topped, hipped roofs sheathed in asphalt roll. Following the 1933 Long Beach earthquake, the four buildings were extensively altered through the application of stucco cladding and minimal PWA Moderne architectural detailing, such as curved and fluted piers. Windows are grouped typically in symmetrical configurations; all feature non-original sash and security screens on the lower levels. Doors have also been replaced with non-original metal flush doors.

In addition to these four 1920s-era buildings, the campus has 15 permanent buildings and structures that were added to campus primarily between 1951 and 2001. These buildings are located in the western two-thirds of the campus and grouped to the east, north, and south of the original campus core. Notable later additions include the Physical Education Building (1951), Classroom Building 1 (1963), the Classroom and Library Building (1969). Other smaller permanent and portable buildings are located sporadically between these primary buildings and provide additional classroom space.

Post-World War II buildings are largely consistent in their design and materials, including rectangular plans and massing and stucco clad exteriors. Ranging from one- to three-stories in height, they are capped by flat roofs, some with cantilevered eaves. All feature elements of Mid-Century Modernism, mostly due to their lack of ornamentation, simple geometric volumes, and generous expanses of fenestration. Constructed in the latter half of the 1960s, the Classroom and Library Building and Classroom Building 2 (1965) are somewhat unique in that they feature minimal elements of New Formalism related to their exaggerated fascia and limited fenestration.

The southwestern portion of the campus contains an open landscaped area with outdoor seating for dining and a faculty parking lot. The southern portion contains a large open asphalt area that includes athletic and recreational space; the large open lawn area at the east end of the campus contains similar features. The majority of the campus perimeter is secured with a chain link fence.

Additional images and information are presented below to provide further detail on the existing conditions of the Belvedere Middle School campus and its buildings.

Figure 3 Campus Map



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

Table 1 Belvedere Middle School Campus Buildings

No.	Name	Type	Year Built
1	Administrative Building	Permanent	1924
2	Classroom & Library Building	Permanent	1969
3	Choral Music Building	Permanent	1963
4	Multi-Purpose Building	Permanent	1957
5	Music Building	Permanent	1953
6	Storage Unit 2	Permanent	1965
7	Classroom Building 2	Permanent	1965
10	Two/Three Unit Relocatable	Portable	1958
11	Physical Education Building	Permanent	1951
12	Home Economics Building	Permanent	1924
13	Lunch Shelter—1/2 of M323 &M506	Permanent	1985
14	Utility Building	Permanent	1953
15	Shop Building	Permanent	1929
16	Storage Unit 1	Permanent	1953
17	Greenhouse	Permanent	1963
19	Agricultural & Classroom Building	Permanent	1951
20	Classroom Building 1	Permanent	1963
21	Academic Building	Permanent	1929
22	Two /Three Unit Relocatable	Portable	1953
25	Two /Three Unit Relocatable	Portable	1940
26	New Lunch Shelter	Permanent	2001
27	Flammable Storage Unit	Permanent	1963

Figure 4 Administrative Building, West Elevation



Figure 5 Home Economics Building, East Elevation



Figure 6 Shop Building, South and East Elevations



Figure 7 Classroom and Library Building, West Elevation



Figure 8 Physical Education Building, South Elevation



Figure 9 Classroom Building 1, North Elevation



Figure 10 Classroom Building 2, South and West Elevations



3.2 Site History and Construction Chronology

Established in 1924, Belvedere Middle School (formerly Belvedere Junior High School) is located in the vicinity of the Belvedere community of East Los Angeles in unincorporated Los Angeles County. The community of Belvedere was established and quickly developed during the first decades of the twentieth century, due largely to the rapid growth and industrialization of downtown Los Angeles that occurred during this period. Ample housing and job opportunities drew many to East Los Angeles, which during its early years was characterized by a multiethnic community of African American, Japanese, Russian, Jewish, Italian, and Mexican residents.[14] By the early 1920s, residential expansion and the establishment of the Belvedere inter-urban rail line helped transform the present site and immediate surroundings from a suburb in the undeveloped outskirts of eastern Los Angeles to an intensively built neighborhood of single- and multi-family, wood-frame residences (Figure 11). While the neighborhood's roots date to the 1910s, this spate of residential development in East Los Angeles in the early 1920s was part of a "remarkable expansion of Los Angeles, not only in terms of population growth but also geographical range."[15] The *LAUSD Historical Context Statement* states further that:

> In anticipation of the ample water supply promised by the Los Angeles Aqueduct, constructed between 1908 and 1913, Los Angeles experienced rapid population and land growth through annexation of neighboring cities. As of 1910, the population of the city of Los Angeles stood at 319,000, and the area served by the Los Angeles City School District

[14] Laura A. Dominguez, *Este Lugar Si Importa: Heritage Conservation in Unincorporated East Los Angeles*, Masters Thesis (University of Southern California, Los Angeles, 2012).

[15] Sapphos Environmental Inc., *LAUSD Historic Context Statement*.

> spanned more than 85 square miles, with more than 46,500 students enrolled. Within just six years, by 1916, enrollment in the Los Angeles City School District had nearly doubled to more than 78,000 students, and the expanse of the district quadrupled, growing from 85 square miles to approximately 400.54 [square miles]. Some areas annexed by the Los Angeles City School District already had schools to serve their own needs; more often, though, new schools were required. Between 1911 and 1915, a total of 22 schools had been annexed to the district, with an additional 31 elementary and high school buildings under construction.[16]

Thanks to the city's prodigious growth in the 1910s and 1920s, by 1930 Los Angeles had become the fifth largest city in the U.S., with a population of 1.2 million and having an area of 441 square miles. The school system expanded accordingly, growing to include 384 schools.[17]

In 1923, the emergence of a new neighborhood in the vicinity of the present school site led the City's Board of Education to issue $300,000 in contracts for the completion of the new junior high school.[18] The Belvedere campus opened in 1924, replacing dozens of houses situated generally between Brooklyn (now East Caesar Chavez), Record, Michigan, and Richard (later North Bonnie Beach Place) avenues. At the time it opened, the junior high school's physical plant consisted of four principal buildings, all designed by architect Edward H. Cline: the combined Main Building and Auditorium (now serving as the Administration Building), separate girls and boys athletic buildings, and the Home Economics Building. District officials soon authorized further improvements to the school, most notably the circa-1929 construction of the Shop and Academic buildings, also designed by Cline.

[16] Ibid

[17] Ibid

[18] 1923. *Los Angeles Times*. School Contracts Are Let. December 8.

Figure 11 1921 Saborn Fire Insurance Map Company Map Aerial Depicting the Subject Campus Boundaries in Red [19]



Historic photographs and original architectural drawings on file with LAUSD indicate that Cline's original designs for the Belvedere campus buildings were representative of the Renaissance Revival style of architecture, evidenced in their massing, choice of materials, and detailing.[20] Given their dates of construction, it is likely that Cline was also the architect of the one-story girls' athletic and boys' athletic buildings, also built around 1924.

Upon completion of the first construction phase, Belvedere Junior High School embodied important principles of 1920s school design era. Cline's Renaissance Revival-style buildings reflected the common contemporary use of elaborate, monumental architecture to express a community's aspirations through its school buildings. In addition, the school's layout and architecture reflected methods and theories linked to the Progressive Education Movement, especially the idea that a school's physical plant should be designed to enhance the health and educational experiences of pupils.[21] The *LAUSD Historic Context Statement* outlines these trends as follows:

> As architects and designers began experimenting with the new ideas of this period, school plants became "more flexible and adaptable, and more accommodating of the new

[19] Environmental Data Resources, Inc. (EDR). 2017. EDR Historical Topo Map Report & Certified Sanborn Map Report: Belvedere MS. Shelton, CT. June 20.

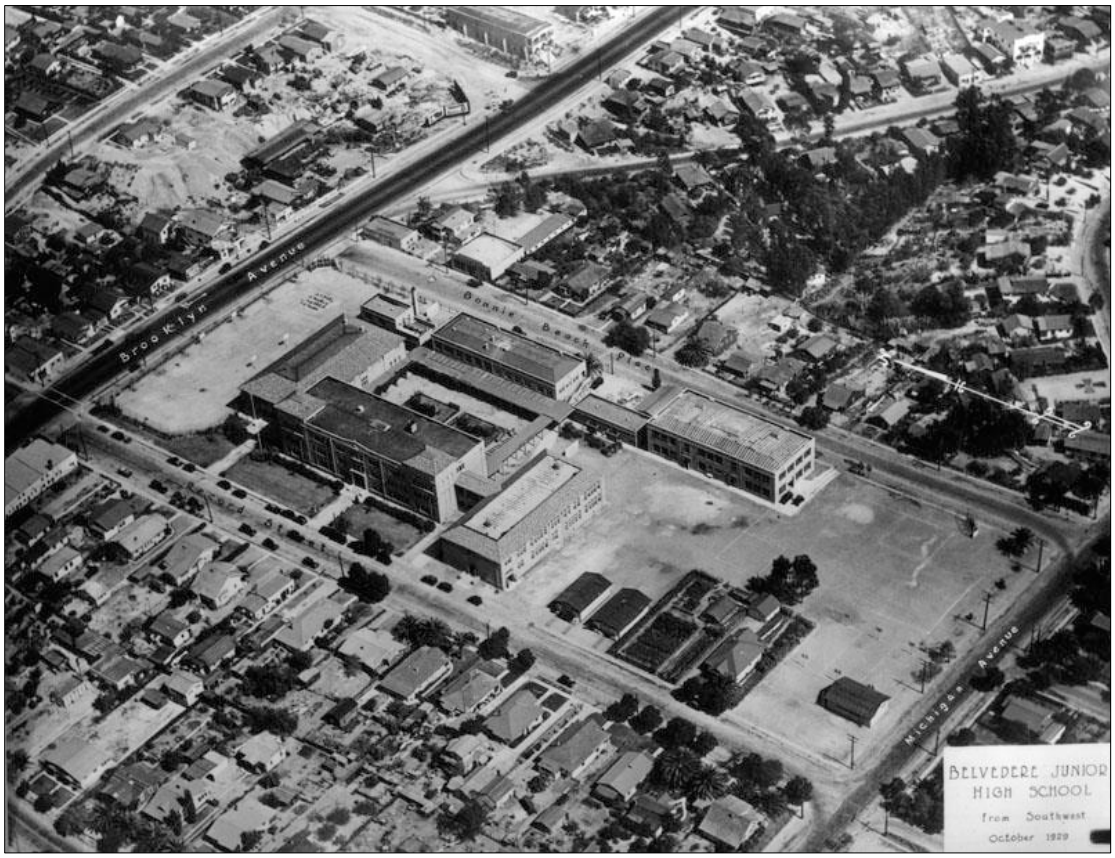
[20] Los Angeles Unified School District (LAUSD). 2017. Vault Drawings: 1924-2014. From LAUSD Facilities Site Portal: Site 13466: Belvedere MS. Los Angeles, CA. September 18, 2017.

[21] Sapphos Environmental, Inc., *LAUSD Historic Context Statement* (p.29-31).

> methods of teaching." The keys became functionality, adaptability, and programmatic differentiation of buildings and spaces, for interiors and for the site overall. The increasing emphasis on natural light and fresh air brought the incorporation of bays of windows, which would march across the building elevations and span each floor of classroom wings.[22]

By 1930, six substantial, functionally distinct buildings and a system of covered corridors, all organized around a central, interior courtyard, had been constructed on the campus. Four of these remain (the Home Economics, Main, Academic, and Shop buildings). Also present on the campus as of 1930 were a number of other small buildings categorized as bungalows, a cottage on the south end of the campus, and three small ancillary structures (Figure 12). [23]

Figure 12 Historic Aerial Photograph of the Belvedere Junior High School Campus, October 1929



The 1933 Long Beach earthquake resulted in the destruction of 40 unreinforced masonry city school buildings and the removal of all damaged or "precariously placed" chimneys, parapets, fire walls, and ornamentation.[24] Moreover, the seismic event prompted officials to take remediation measures at the federal, state, and local levels of government. In response to the Long Beach earthquake, the state of California passed the Field Act, detailed in the *LAUSD Historic Context Statement* as follows:

[22] Sapphos Environmental, Inc., *LAUSD Historic Context Statement* (p.31).

[23] Los Angeles Unified School District, Vault Drawings.

[24] Sapphos Environmental, Inc., *LAUSD Historic Context Statement* (p.62).

> The law directed the state Division of Architecture to design and enforce regulations to ensure earthquake-resistant buildings. State oversight and implementation of building codes/construction inspections were also established. Additionally, the City of Los Angeles Board of Education again revisited its own building codes. Post-1933 elementary school buildings were not to exceed one story in height, and high school buildings were limited to two stories (this would change over time, given the tremendous demand for classroom space in the postwar period and relative scarcity and expense of large lots). New buildings incorporated the latest construction techniques and prominently showcased the use of modern materials such as steel and reinforced concrete.[25]

Federal and local authorities financed a district-wide rehabilitation and reconstruction program. The federal PWA purchased $5.3 million in unsold bonds and granted additional matching funds for reconstruction efforts, with a total of $12.1 million ultimately raised for the 1933 to 1935 reconstruction effort. In October 1933, the district launched a structural program that was implemented in two parts and consisted of the rehabilitation of existing school structures and the construction of new buildings to conform to "the new building codes devised to make structures capable of resisting stresses many times more severe than any other ever experienced in the region."[26] The first phase of the program was estimated to cost $10,000,000, with an additional $22,532,000 made available by a bond issue and a Federal loan. The second phase totaled an estimated $32,530,000.[27] As described in the *LAUSD Historic Context Statement*:

> As the school reconstruction program progressed, final steps included reinforcing or replacing 132 unreinforced masonry buildings, strengthening 275 buildings constructed since 1927, replacing 51 wood-frame buildings, and eliminating all temporary classroom housing. By 1937, over $34 million had been spent on post-earthquake school construction, repairs, retrofitting, and rehabilitation. The advent of World War II put substantial investments in schools on hold (after war's end, a $75 million bond issue kick-started these efforts).[28]

In June 1936, the school board awarded a contract of $139,000 to C.E. Noerenberg, architect, and H.B. Nicholson, general contractor, for the strengthening of the Main and Home Economics buildings at Belvedere.[29] Per Noerenberg's plans, the brick buildings were reinforced with steel and concrete structural elements, including the application of mesh-reinforced gunite surfaces that obscured the buildings' original brick exteriors and decorative details (Figure 13). The district approved similar plans for the rehabilitation of the 1920s Shop and Academic buildings in the late 1950s.[30]

[25] Sapphos Environmental, Inc., *LAUSD Historic Context Statement* (p.63).

[26] 1935. *Los Angeles Times.* Huge School Construction Program Here Spurred; Structures Take Form. January 13.

[27] 1935. *Los Angeles Times*. New Building Program for Schools Launched. December 8.

[28] Sapphos Environmental, Inc., *LAUSD Historic Context Statement* (p.64-65).

[29] 1936. *Los Angeles Times.* School Projects Increase Summer Building Volume Here. June 14.

[30] Los Angeles Unified School District, Vault Drawings.

Figure 13 Students Pose Near the Main Building, Belvedere Junior High School in June 1932, Four Years before Seismic Retrofitting Substantially Altered the Building's Exterior [31]



The postwar baby boom strained the Los Angeles public school system's ability to accommodate the city's growing school-age population. The relative austerity of wartime gave way to a significant financial investment in Los Angeles-area schools, as school officials attempted to address growing demand for school services. The *LAUSD Historic Context Statement* indicates that:

> In 1949–1950, enrollment at U.S. elementary and secondary schools stood at 25.1 million. In one decade, this number expanded by nearly 50 percent to approximately 36 million; by 1971, it reached 46 million. In 1955, in the midst of this boom, "editors at the Architectural Forum worried, 'every 15 minutes enough babies are born to fill another classroom and we are already 250,000 classrooms behind.' The rising population of young American children made school building, together with housing, the most widely discussed architectural challenge after World War II."
>
> Perhaps in no other state of the union was this growth felt more acutely than in California. The booming birth rate was accompanied by a wave of in-migration, as new settlers were drawn by established employment centers in, among other things, the aerospace industry, which had shifted operations to peacetime production.

[31] Photograph obtained from the library archive of Belvedere Middle School.

> School districts around the country struggled to keep up with unprecedented demand and overcrowded classrooms. Adding to the challenges facing school districts was the need not only for new schools, in particular in emerging suburban communities, but also the need to repair and maintain aging school plants, facilities, and equipment.[32]

In response to these pressures, starting in 1946 the Board of Education submitted, and voters approved, a series of three school bonds to finance both the construction of new facilities and improvements at existing campuses. The 1946 bond issue alone totaled $76 million, financing the construction of 66 new schools. These measures were insufficient, however, and the Board issued two subsequent bonds in 1952 and 1955.[33]

Belvedere Junior High School was a beneficiary of the district's postwar building program. In the late 1940s the campus expanded the footprint of its developed area with the further removal of then-existing residential development east of the Home Economics and Shop Buildings in preparation for the construction of a Physical Education Building. In 1948 the school district awarded a contract to architects Barker & Ott for the design of Belvedere's Physical Education Building. Touted as "one of the most important projects in the Los Angeles School District's building program,"[34] the Physical Education Building, constructed at a reported $550,000, was located as the eastern-most building on campus. It was dedicated and in operation by 1952.[35] Following construction of the Physical Education Building, the last remaining residential development on the parcel was removed.[36] From that time forward, the eastern third of the campus has remained largely undeveloped, being utilized primarily for the purpose of sports.

[32] Sapphos Environmental, Inc., *LAUSD Historic Context Statement* (p. 71).

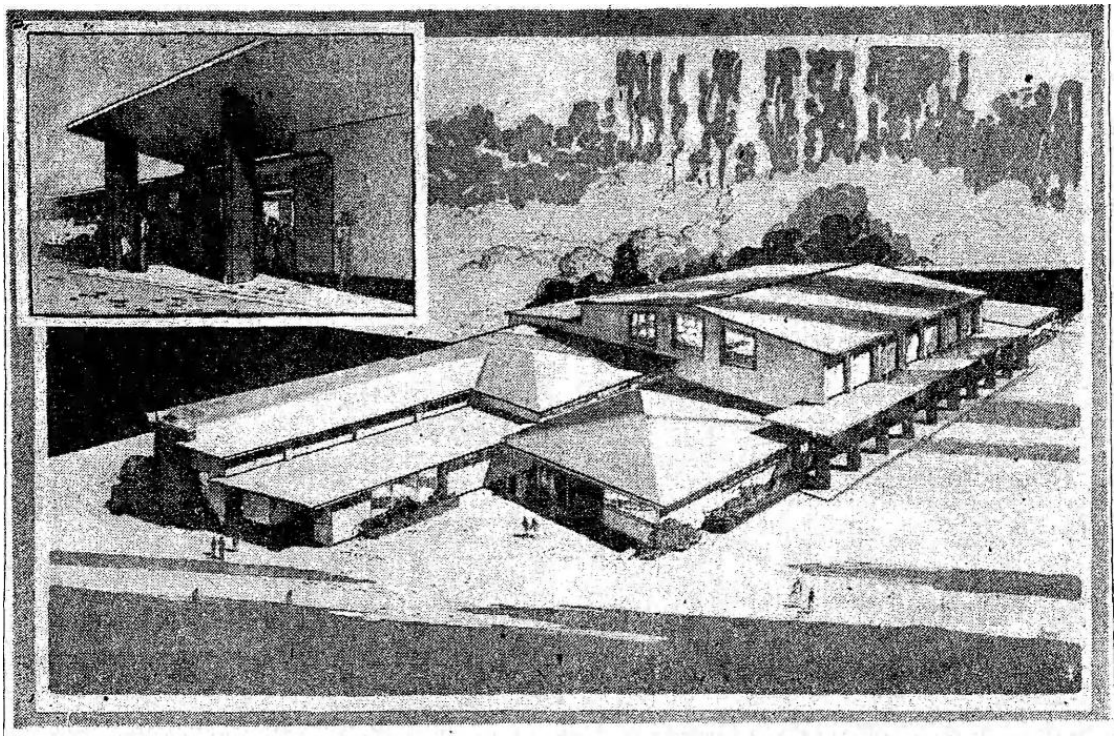
[33] Sapphos Environmental, Inc., *LAUSD Historic Context Statement* (p.102).

[34] 1949. *Los Angeles Times.* New Gym Set For Belvedere High. August 28.

[35] 1952. *Los Angeles Times.* Belvedere Gym to Open Today. December 15.

[36] Environmental Data Resources, Inc., EDR Aerial Photo Decade Package Report.

Figure 14 Barker & Ott's 1949 Rendering of the New Physical Education Building, Belvedere Junior High School [37]



The district constructed several additional non-descript or utilitarian-style, low-rise buildings at Belvedere Junior High School in the 1950s and 1960s. For the most part, these were situated on a generally north-south axis, in the area between the 1920s cluster of buildings and the 1952 gym. In 1953, crews erected the Utility and Music buildings at the locations of the old boys' and girls' athletics buildings.[38] The Multi-purpose Building followed in 1957. Prior to the 1960s, the southeastern corner of the campus was occupied with several small bungalows, most of which were replaced when Classroom Building 1 was constructed in 1962. The two-story Classroom Building 1 was located directly to the south of and connected to the Academic Building via a two-story pedestrian walkway. A small, single-floor Choral Music Building is located near the northern edge of the campus and dates to 1963. Two years later, Classroom Building 2 was completed north of the Physical Education Building. In addition to the several permanent buildings dating to the 1950s and 1960s, five extant portable classroom facilities were installed on campus between 1940 and 1966.[39] Five bungalows were located on the property's northern border until 1969, when they were razed and replaced with the Classroom and Library Building.[40] This building was the last major facility to be erected on the Belvedere Junior High School campus.

By the 1960s, the district had acquired the former residential parcels making up the present eastern end of campus in addition to the North Bonnie Beach Place (originally Richards Avenue) right-of-way

[37] 1949. *Los Angeles Times.* New Gym Set For Belvedere High. August 28.

[38] Los Angeles Unified School District. 2010. Belvedere Middle School: Campus Pre-Planning Survey. Prepared by HMC Architects. Ontario, CA. July 12, 2010.

[39] Ibid.

[40] Environmental Data Resources, Inc., Certified Sanborn Map Report.

(Figure 15). The homes and roadway occupying this area were cleared by 1964 and the space put to use mostly as a playing field by the 1970s.[41]

Figure 15 1964 Aerial Photograph of Belvedere Junior High School.



By the 1960s, communities served by the Los Angeles Unified School District faced the challenge of diminishing financial resources during a time of intense social change. As the ongoing postwar baby boom swelled enrollment and strained local education budgets, a "voter revolt" swept Southern California, halting the issuance of new school bonds. An era of increasingly insufficient school financing coincided with a period of mounting activist pressure to address longstanding problems of racial inequality and de facto segregation on district campuses.[42] It was in this context that the California state legislature passed Senate Bill 28, a 1966 law that allocated $35 million to "help poverty-hit school districts in several areas,"[43] including East Los Angeles. The passage of Senate Bill 28 made funding available to the state Department of Education for distribution to schools in regions "designated by the state as the most concentrated areas of poverty and social tension in the district, according to [Superintendent] of Schools Jack P. Crowther."[44] The funding was used for a range of applications including the construction of mathematics demonstration centers at three junior high schools in the district: Pacoima Junior High, Edison Junior High, and Belvedere Junior High. At these centers, educators were encouraged to "try new methods of teaching mathematics

[41] Ibid.

[42] Sapphos Environmental, Inc., *LAUSD Historic Context Statement* (p.105, 107, 108).

[43] 1966. *Santa Cruz Sentinel.* Sacramento Summary. May 10.

[44] 1967. *Valley News.* Will Seek Funds to Hire Poverty Area Teachers. December 5.

to disadvantaged children."[45] Ground was broken for construction of the 7,410-square foot, $250,000 Belvedere Junior High School Mathematics Demonstration Center in October 1968.[46]The building was constructed in the northeast corner of the lot in the Mid-Century Modern style and is extant today, anchoring the northeast corners of the parcel's developed area.

Few major additions or alterations have taken place at Belvedere Junior High School since the 1970. New lunch shelters were erected in 1985 and 2001. In addition, district officials approved plans to replace the wood-sash windows in the Home Economics and Main buildings in 1983 and 1985, respectively.[47] A further modernization plan was approved for the Home Economics Building in 1996. Sometime between 1985 and 1996 the school was renamed Belvedere Middle School.[48]

The neighborhood surrounding Belvedere has retained the predominantly residential character it attained in the 1920s. A notable exception to this pattern of development is along East Caesar Chavez Avenue, where by 1970 the current mix of residential and commercial uses had emerged.[49]

[45] 1968. *Valley News.* L.A. District is Publishing School Texts Written Here. June 18.

[46] 1968. *Los Angeles Times.* Ground to be Broken for Lab at Junior High. October 8.

[47] Los Angeles Unified School District, Vault Drawings.

[48] Ibid.

[49] Environmental Data Resources, Inc., EDR Certified Sanborn Map Report.

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4 Historic Overview

4.1 Focused Neighborhood History

The Belvedere Middle School campus is located in the vicinity of the Belvedere neighborhood in the unincorporated community of East Los Angeles.

Prior to the turn of the 20th century, development of Los Angeles was centralized around El Pueblo de Nuestra Señora La Reina de Los Ángeles de Porciúncula, which "included all of what is now downtown Los Angeles and extended outward to present-day Indiana and Hoover streets, Exposition Boulevard, and an axis that followed the course of Fountain Avenue."[50] Throughout the 1800s, Los Angeles remained a relatively small and isolated outpost. Spurred primarily by the arrival and further development of the railroad, the Los Angeles area experienced increased growth in the last few decades of the 19th century with associated residential, commercial, and industrial development. During this period, "ethnic and cultural minorities were typically relegated to small enclaves that tended to be located around the historic plaza and in other areas that were deemed less desirable." [51] Following the turn-of-the-century development pressures, associated displacement of minority communities in the downtown Los Angeles area continued to increase.

Through much of this period, the area east of downtown Los Angeles was primarily occupied by agricultural development. However in the wake of the 1880s boom, East Los Angeles became increasingly developed as growth expanded outward from the city center. This transformation first began with the Boyle Heights neighborhood of Los Angeles in the 1890s and spread further east through the early twentieth century. Growth and settlement were spurred by the creation of new interurban streetcar lines and a number of new subdivisions that catered to working class families seeking a more suburban lifestyle.[52] In 1910, the Janss Investment Company, an already well-established developer in the Los Angeles area, subdivided and developed the Belvedere Heights neighborhood, followed by the Belvedere Gardens in the early 1920s.

Many of these new subdivisions became home to many of the minority populations that were being pushed out of downtown Los Angeles. In the early years, this included a multiethnic population of Mexican, African American, Japanese, Chinese, Russian, Jewish, and Italian residents.[53] Many of these residents were pushed out of the downtown area and attracted to East Los Angeles due to available housing and a general absence of the restrictive covenants and deed restrictions that prohibited non-whites from owning or occupying property in other areas of Los Angeles.[54] The Belvedere community and East Los Angeles remained multicultural through World War II, "when the suburban development of much of Los Angeles led to the out-migration of countless residents, leaving the Mexican-American community in the unincorporated neighborhood."[55]

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[50] Los Angeles, City of. 2016. *Central City Community Plan Area*. Survey LA- Historic Resources Survey Report. Department of City Planning. Prepared by Architectural Resources Group. Pasadena, CA. September, 2016.

[51] Ibid.

[52] Los Angeles, City of. 2014. *Boyle Heights Community Plan Area*. Survey LA- Historic Resources Survey Report. Department of City Planning. Prepared by Architectural Resources Group. Pasadena, CA. December, 2014

[53] Dominguez 2012.

[54] Los Angeles, City of. 2014. *Boyle Heights Community Plan Area*. Survey LA- Historic Resources Survey Report. Department of City Planning. Prepared by Architectural Resources Group. Pasadena, CA. December, 2014

[55] Dominguez 2012, p. 3.

This post-World War II demographic shift was due to a number of factors, including the internment of Japanese American residents during the war (many of whom did not return to the area) and the exodus of Jewish residents who were able to move to other parts of Los Angeles due to the easing of restrictive housing covenants. As other ethnic and religious populations also left the area during this period, the Latino community remained and grew due to a number of factors, including:

> …language barriers, income inequality, fewer job opportunities, and a real estate market that continued to discriminate against certain racial and ethnic minorities. Economic changes and civil unrest that afflicted Mexico and Central America ushered in new waves of immigration to Los Angeles… beginning in the 1970s. The area subsequently evolved into a predominantly Latino community and a destination for new immigrants arriving from Mexico and, to a lesser extent, Central America.[56]

In response to this growing Latino population and the struggles it faced, East Los Angeles became the center of a powerful movement in support of Latino Civil Rights. Tomas Benitez describes the events and changes that occurred in the communities of East Los Angeles in the postwar era:

> Despite the growing numbers, the Mexican-American community lagged in educational opportunity, employment, economic opportunity, political representation, and all the social trappings of fully recognized, empowered citizens. The ardent effort to self-organize and empower, in tandem with the frustration of failure in the face of resistance, particularly in attaining cityhood, fostered a growing pressure and malaise in the East Los Angeles community. Provoked by the success of labor organizer Cesar Chavez and the struggle of the farm workers, as well as the growing combative conditions in the nation brought on by anti-Vietnam War sentiment, the Civil Rights Movement and the student movement, some of the leaders in the cities began to radicalize their strategies toward social justice. Through it all emerged a new sense of identity, labeled Chicano, and meaning a pro-active approach to self-respect and dignity. Artists and writers helped to greatly promote the call to the reborn Mexican-American and heralded a new day in the barrio. However, the generally good spirit and neo-nationalism of the Chicano Movement was shaken by a series of explosions.
>
> In 1968, over 30,000 students from five local high schools walked out in protest of the conditions of their campuses and the status of their education, the largest ever demonstration of its kind in the nation's history. The students held fast and won a series of concessions from the school board. On August 29, 1970, the largest political demonstration ever organized in East Los Angeles broke out in violence, both at the hands of the police and agitators. A follow up rally in January 1971 resulted in more violence and well into the 1970s, the uproar in the community stimulated a great deal of acrimony and protest, abated by modest gains in the goals of the movement.
>
> In the 1980s, the growing impact of the overall Hispanic economic and political power signaled a new level of negotiated participation in the mainstream. However, this growth with be undermined by new challenges to educational opportunity, affirmative action, the very divisive English only debate, and the criminalization of youth through statute propositions, seemingly directed at minorities. Agitated by the attacks from the extreme right and with inspiration from the revolutionary actions in Chiapas, Mexico, a revived social action network has been building throughout the 1990s. At the same time, the accelerated political gains through elections, the growing Chicano middle class, and an emerging self-

[56] Los Angeles 2014, pp.

realization of Chicanos in all profiles as world citizens indicate that the future does indeed hold promise, but there are remaining challenges to overcome. What strategies and what processes are to be determined and measured by the impact of success and failures, and certainly, the direction of the future of Chicanos, Mexican-Americans, Mexicans, all Latinos, and all Americanos is going to be on an ancient path -- a newly paved road that goes through East L.A.[57]

[57] Tomas Benitez, "East L.A.: Past and Present," America Family Journey of Dreams, PBS SoCal, accessed on May 14, 2018 at < http://www.pbs.org/americanfamily/eastla.html>.

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5 Associated Design Professional Biographies

The following section presents biographies for design professionals known to be associated with Belvedere Middle School.

5.1 Edgar H. Cline

Edgar H. Cline was born in Ohio in 1886.[58] He graduated from the University of California, Berkeley in 1908 and subsequently attended the École des Beaux Arts in Paris for two years. After graduation, Cline relocated to Los Angeles to practice architecture. By 1912, Cline was a partner in the firm of Needham and Cline based in Los Angeles. He worked in a variety of styles. Among the firm's projects were the Greek Revival-style buildings at East Side Los Angeles High School at North Broadway and Pritchard Street, and a Chalet-style stone home in the Hollywood Hills.[59] In 1917, Cline closed his office and enlisted for military service in World War I.[60]

After his return to civilian life, Cline worked on various school projects in Los Angeles County and was appointed as architect for the Los Angeles Board of Education in 1920. He served in that capacity through at least 1925.[61] Among the Los Angeles-area school projects he worked during his tenure with the school district are Lincoln, Belmont, South Gate, and Banning high schools.[62] It appears that Cline later worked in some capacity designing or producing federal housing.[63] One of his best known works is the Nishi Hongwanji, the first Buddhist temple built in the Los Angeles area, completed in 1925.[64] Today it serves as the exhibition building for the Japanese American National Museum.[65] Edgar H. Cline died in 1955.[66]

5.1 C.E. Noerenberg

Clarence E. Noerenberg served as the architect for the 1936 Main and Home Economics buildings reconstruction and strengthening project. Noerenberg was born in Illinois in 1886. Following his service in World War I, Noerenberg lived briefly in Chicago, before relocating to Los Angeles. Details regarding his education were not available at the time of the present study. Noerenberg established

[58] United States Department of Commerce, Bureau of the Census, 1940 United States Census.

[59] 1912. *Los Angeles Times*. Fair Crown of a New Athens. June 28; 1913. *Los Angeles Times*. Home of Mr. and Mrs. Thomas Rattray in Hollywood Foothills, Needham & Cline Architects. March 23.

[60] 1917. *Los Angeles Times*. Architect Shuts Shop; Off to War. September 9. .

[61] 1920. *The American Contractor (*vol. 41, p. 33). Herr, Horace H. Personals. November 20; 1921. *The Architect and Engineer.* Architects Names for Los Angeles Schools. January; 1925. *Los Angeles Times*. Halls of Learning. May 31; 1925. *Los Angeles Times.* Defendant Testifies. September 29.

[62] Ibid; 1934. *Los Angeles Times.* Plans To Be Prepared for Learning Projects. September 30.

[63] United States Department of Commerce, Bureau of the Census, 1940 United States Census.

[64] 2017. Harlander, Thomas. A Guide to the 100 Stunning Architectural Gems of L.A. *Los Angeles Magazine.* February 8.

[65] Japanese American National Museum, "Little Tokyo Guided Tour," Accessed on May 14, 2018 at < http://www.janm.org/events/1997/09/06/little-tokyo-guided-tour/>.

[66] 2015. Michelson, Alan. Edgar Cline (Architect). Pacific Coast Architecture Database (PCAD). Accessed on May 14, 2018 at <http://pcad.lib.washington.edu/person/2742/>.

an architectural office in Los Angeles in 1919 or 1920.[67] According to a 1920 entry in the journal *Southwest Builder and Contractor*, his practice specialized in "reinforced concrete construction, in which he has had considerable experience."[68] This specialization served him well in the several Southern California school projects he designed to be earthquake-resistant.[69] In 1923, Noerenberg founded a partnership with Harold S. Johnson. Based in Los Angeles, Noerenberg & Johnson's more notable commissions included the Citizens Mortgage Company Building and the Metropolitan High School both located in downtown Los Angeles.[70] In the late 1930s, Noerenberg formed a partnership with Henry L. Gogerty. The firm designed Susan M. Dorsey High School in Los Angeles, which was completed between 1936 and 1938.[71] Noerenberg died in Los Angeles in 1957.

5.1 Barker & Ott

Merl L. Barker was born in 1888 in Lamar, Colorado. He received his education and training in Denver. By 1917, he began his architectural career as a draughtsman for J.B. Benedict in Denver. Barker moved to Los Angeles in 1918 and established an office there, designing residential, ecclesiastical, and school buildings.[72]

George Lawrence Ott was born in 1895 in Los Angeles. Details regarding Ott's education are unknown, but in 1917 he was working as a draughtsman for Edwin Bergstrom in Los Angeles, and in his own architectural office in 1920.[73] In 1929, Ott partnered with Barker to establish the firm Barker & Ott in Los Angeles.[74]

Barker & Ott worked on many ecclesiastical projects, including chapels and church schools designed in a variety of architectural styles. Some of their best known buildings are the Good Shepherd Catholic Church in Beverly Hills (1930), Mount Carmel High School (1934) in Los Angeles, the Sacred

[67] 2015. Michelson, Alan. "Charles Eugene Noerenberg (Architect)," Pacific Coast Architecture Database (PCAD). Accessed on May 14, 2018 at <http://pcad.lib.washington.edu/person/427/>.

[68] *Southwest Builder and Contractor*, "Personal and Trade Notes," January 9, 1920, quoted in 2015. Michelson, Alan. "Charles Eugene Noerenberg (Architect.".

[69] 2015. Michelson, Alan. "Charles Eugene Noerenberg (Architect)," Pacific Coast Architecture Database (PCAD). Accessed on May 14, 2018 at <http://pcad.lib.washington.edu/person/427/>.

[70] N.d. Marino, Chris. *Finding Aid for the Noerenberg & Johnson Drawings for the Metropolitan High School (Los Angeles, Calif.).* Accessed May 14, 2018 at <http://www.oac.cdlib.org/findaid/ ark:/13030/c83b5zf6/entire_text/>.

[71] 2015. Michelson, Alan. "Gogerty and Noerenberg, Architects (Partnership)," Pacific Coast Architecture Database (PCAD). Accessed May 14, 2018 at <http://pcad.lib.washington.edu/firm/1539/>.

[72] 1917. World War I Draft Registration Card for Merl L. Barker. Ancestry.co. Accessed Nay 14, 2015 and 2012. O'Donnell, RobertaM. and Jennifer Trotoux., NRHP Registration Form for Boulevard Heights Historic District. Accessed May 14, 2018 at <http://ohp.parks.ca.gov/pages/1067/files/ca_los%20angeles%20county_boulevard%20heights%20historic%20district_nomination.pdf>.

[73] World War I Draft Registration Card for G. Lawrence Ott (1917), accessed via Ancestry.com and Roberta M. O'Donnell and Jennifer Trotoux., NRHP Registration Form for Boulevard Heights Historic District (2012), accessed May 14, 2018 at <http://ohp.parks.ca.gov/pages/1067/files/ca_los%20angeles%20county_boulevard%20heights%20historic%20district_nomination.pdf>.

[74] Online Archive of California, "Finding Aid of the M. L. Barker & G. Lawrence Ott drawings for the Claretian Theologate School building, 1954 0000228," (n.d.) accessed online on May 14, 2018 at <http://www.oac.cdlib.org/findaid/ark:/13030/c8cc119j/>.

Heart Chapel on the Loyola Marymount University campus (1954), and buildings on the Mount Saint Mary's College campus (1965 and 1973).[75] Barker died in 1970 and Ott died in 1975.[76]

[75] Alan Michelson, "G. Lawrence Ott (Architect)" (2015), accessed online on May 14, 2018 at <http://pcad.lib.washington.edu/person/1340/>; Michelson, "Merle Lee Barker (Architect)" (2015), accessed online on May 14, 2018 at <http://pcad.lib.washington.edu/person/1339/>;

Online Archive of California, "Finding Aid of the M. L. Barker & G. Lawrence Ott drawings for the Claretian Theologate School building, 1954 0000228," (n.d.) accessed online on May 14, 2018 at <http://www.oac.cdlib.org/findaid/ark:/13030/c8cc119j/>.

[76] Michelson, "G. Lawrence Ott (Architect)" (2015), accessed online on May 14, 2018 at <http://pcad.lib.washington.edu/person/1340/>; Michelson, "Merle Lee Barker (Architect)" (2015), accessed online on May 14, 2018 at <http://pcad.lib.washington.edu/person/1339/>.

6 Significance Evaluation

This evaluation utilized the framework for historic resource assessments described in the *LAUSD Historic Context Statement, 1870-1969*, which follows the NRHP Multiple Property Documentation format (MPD). The MPD format "defines themes of significance, eligibility standards, and related property types. Properties sharing a theme of significance are then assessed consistently, in comparison with resources that share similar physical characteristics and historical associations."[77]

In addition to each of the applicable federal, state, and local designation criteria, two evaluation frameworks and their associated eligibility standards and integrity thresholds from the LAUSD Historic Context Statement were identified and applied to this evaluation after careful consideration of all themes and subthemes. These evaluation frameworks relate specifically to the themes of 1) Pre–1933 Long Beach Earthquake School Plants; and 2) Educating the Baby Boom: the Postwar Modern, Functionalist School Plant, 1945-1969. Both were chosen to address the two distinct phases in which the majority of the buildings on the subject campus were developed. Although Belvedere Middle School is located in a historically Latino neighborhood, archival research failed to identify any information suggesting the campus was directly associated with significant events under the theme of the Latino Civil Rights Movement.

Each building on the campus was evaluated for eligibility, both individually and as a contributor to any potential historic district. For buildings that were found to be potentially eligible, an integrity analysis was carried through in Section 7 to determine if the property retains sufficient integrity to convey the reasons for its significance.

Evaluation Framework 1

Theme: LAUSD | Pre–1933 Long Beach Earthquake School Plants,

Property Type: Institutional/Education

Property Subtypes: Elementary, Junior High, and High Schools Buildings and Campuses

Period of Significance: 1910–1933

Area of Significance: Education

Geographic Location: Citywide

Area of Significance: A/1

Eligibility Standards

- Embodies LAUSD school planning and design ideals and principles of the era
- One of few remaining schools from the pre–1933 Long Beach earthquake era that was not substantially altered or remodeled
- Retains most of the associative and character-defining features from the period of significance

Character-Defining Features – Buildings/Structures

[77] Sapphos Environmental, Inc. *LAUSD Historic Context Statement* (p. 4).

- Articulated buildings plans, facilitating the creation of outdoor spaces (often T- shaped, E-shaped, U-shaped, and H-shaped plans)
- Generally low massing, usually one to two stories (with two to three stories more common for middle and senior high schools)
- Includes designed outdoor spaces, such as courtyards and patios, adjacent to classroom wings
- Exteriors usually lined with rows of grouped windows, including wood-framed multi-light windows; expanses of windows often mark the location of classrooms
- Designed in popular period-revival styles of the era (including Spanish Colonial Revival, Renaissance Revival, Mediterranean Revival, and Collegiate Gothic)
- Often designed by prominent architects of the era

Character-Defining Features – Campus/District

- Emphasis on a more spread-out site plan, with designed outdoor spaces
- More varied collection of buildings, differentiated by function and use (rather than a single building with all functions inside)
- Might include an elaborate administrative building, usually the focal point of the campus, as well as classroom wings, auditoriums, gymnasiums, and outdoor recreation areas
- Middle or senior high schools might include a gymnasium designed in the style of the campus overall

Integrity Considerations

- Most pre-1933 schools were substantially remodeled following the Long Beach earthquake
- Designed outdoor spaces, such as courtyards and patios, should be intact in use, if not with landscape design and hardscaping; development pressures over the years often resulted in these open spaces being in-filled with new construction; overall sense of relationship of building to designed outdoor spaces should be intact
- Should retain integrity of materials, design, workmanship, feeling, and association from its period of significance
- Intact campus groupings from a single period of time are not common
- Some materials and features may have been removed or altered
- Modern lighting and fencing of site acceptable

Evaluation Framework 2

Context:	Public and Private Institutional Development | Education
Theme:	LAUSD | Educating the Baby Boom: the Postwar Modern, Functionalist School Plant, 1945-1969
Property Type:	Institutional/Education
Property Subtypes:	Elementary, Junior High Schools, and High School Buildings and Campuses
Period of Significance:	1945 to 1969
Area of Significance:	Education

Geographic Location: Citywide, with concentrations in the San Fernando Valley and West Los Angeles

Area of Significance: A/1

Eligibility Standards

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

Character-Defining Features – Buildings/Structures

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

Character-Defining Features – Campus/District

- Unified campus design includes most or all of the following attributes: lack of formality and monumentality; low massing (usually one stories for classrooms and up to two stories for auditoriums/multipurpose rooms); strong geometric ordering of buildings and outdoor spaces; decentralized, pavilion-like layout; rational, function driven site design; buildings extend across the site; buildings are oriented to outdoor spaces (courtyards, patios, outdoor areas), purposeful indoor-outdoor integration
- Automobile traffic/drop-off areas separated from campus; linked to interior via extended canopied corridors
- Buildings often turn inward, toward green spaces and courtyards, lawns
- Outdoor corridors, sheltered beneath simple canopies, forming links between the buildings of the campus
- Classrooms often consist of a series of axial, modular units
- An informal, domestic scale for the buildings and campus might be especially evident in elementary schools

- Swaths of patios, terraces, and plantings adjacent to and alternating with buildings
- Generous expanses of windows, including steel- and wood-framed multi-light windows, in awning and hopper casements, clerestories, and fixed panes
- Flat roof or broken-plane roof often used for lighting and acoustical issues
- Modular design, with a rhythmic, asymmetrical but balanced composition
- Usually displays a modern design idiom, usually either regional modernist (with use of native materials such as stone, brick, and wood siding and/or framing), International Style modernist, or, by the early 1960s, Late Modern (more expressive and sculptural)
- Some examples might include some degree of historicist detailing or styles popular in the postwar period (such as American Colonial Revival); these are less common than modernist examples
- May have been designed by a prominent architect of the period
- Often associated with post–World War II suburbanization and growth near major employment centers beyond the city periphery (such as the San Fernando Valley and southwest Los Angeles)
- Often built in residential neighborhoods on large expanses of land, with swaths of land devoted to landscape design and playing fields (in particular for high school campuses)

Integrity Considerations

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

6.1 Designation Criteria A/1/1

Historic District Evaluation: Extant buildings on the subject campus were developed over a period of nearly 80 years, with four buildings constructed in the 1920s and a large percentage of other campus developments occurring in the 1950s and 1960s. Overall, the campus does not exhibit a unified site plan or architectural style to the extent that it meets the eligibility requirements for historic districts as described in the *LAUSD Historic Context Statement* for eligibility under Criteria

A/1/1. Further, no archival information was identified that indicated that the Belvedere Middle School was directly associated with any events significant to Latino history. One of the most significant events of the Latino Civil Rights Movement was the East L. A. Blowout, which involved five area high schools. Students from Lincoln, Roosevelt, Wilson, Garfield, and Jefferson high schools walked out of class in March of 1968 demanding "equal, qualitative, and culturally relevant education."[78] Beginning in 1969, a series of protest marches occurred throughout East Los Angeles as the Chicano Moratorium sought to raise awareness of the Vietnam War as a civil rights issue. Although the campus is located in a neighborhood that is strongly associated with the Latino Civil Rights Movement, the campus does not appear to have played any direct role in significant events under this theme and does not appear eligible under Criteria A/1/1 as a result.

Individual Resource Evaluation: None of the buildings located on the subject campus appear to be individually eligible per the registration requirements described LAUSD Historic Context Statement for eligibility under Criteria A/1/1. As originally designed, the 1920s-era buildings (Administrative, Home Economics, Academic, and Shop buildings) exhibited many of identifying characteristics of educational buildings developed within the pre-1933 Long Beach earthquake context, including but not limited to their design in the Renaissance Revival style of architecture. Following the 1933 Long Beach earthquake, the 1920s-era buildings were substantially altered. In particular, mesh-reinforced gunite plaster was applied to all exterior surfaces. This application obscured the buildings' original architectural style, covering many of their original features and finishes and applying a simple PWA Moderne-style detailing. Original wood window sashes and many original wood doors have also been removed and replaced. The prominent, street-facing west facade of the Administrative Building (east-west wing) was extended westward with an incompatible addition, connecting it to the adjacent 1969 Classroom and Library Building, and further altering its original design intention. As discussed in detail below, these changes have resulted in a loss of integrity of materials, design, setting, workmanship, feeling, and association, many of which are necessary in order to meet the integrity considerations identified in *LAUSD Historic Context Statement*.

6.2 Designation Criteria B/2/2

Historic District and Individual Resource Evaluation: As a public middle school, the subject campus and its individual buildings are associated with a number of individuals who attended, visited, or taught at the school. However, per the guidance of the National Park Service, properties that are significant for their association with an important person in our past, must illustrate a person's important achievements.[79] Archival research completed as part of this study identified academy award winning actor Anthony Quinn as a former student. However, Quinn's achievements as an actor occurred long after he left Belvedere middle School. Further research on persons associated with the school failed to identify any direct and significant associations that are directly represented by the subject campus. As a result, the campus and its buildings do not appear eligible for designation either individually or collectively as a historic district under Criterion B/2/2.

[78] Simpson, Kelly, 7 March 2012, "East L.A. Blowouts: Walking Out for Justice in the Classrooms," available from KCET: http://www.kcet.org/socal/departures/landofsunshine/highland-park/east-la-blowoutwalking- out-for-justice-in-the-classrooms.html (10 September 2013).

[79] U.S. Department of the Interior, National Park Service. 2002. *How to Apply the National Register Criteria for Evaluation* (p. 14). National Register Bulletin No. 15. Washington, DC.

6.3 Designation Criteria C/3/3

Historic District Evaluation: Developed in phases over a period of nearly 80 years, buildings located on the Belvedere Middle School campus feature a variety of architectural styles. The campus does not feature cohesive design intent such that it meets any of the applicable eligibility standards outlined in the LAUSD Historic Context Statement and as a result does not appear eligible as a historic district under Criteria C/3/3.

Individual Resource Evaluation: None of the buildings located on the Belvedere Middle School campus appear individually eligible for federal, state, or local designation under Criteria C/3/3. As previously mentioned, the four extant 1920s-era Renaissance Revival style campus buildings were significantly altered following the 1933 Long Beach earthquake. Alterations to their original design include the application of new surface material and PWA Moderne-style design elements, in addition to the removal and replacement of all original window sash and most original exterior doors. Further, an addition was constructed on the front facade of the Administrative Building's east-west wing further obscuring its original design and connecting it to the 1969 Classroom and Library Building to its north. Although the 1920s-era buildings now exhibit features of the PWA Moderne style on their exteriors, overall they are not representative examples of the style and no longer embody the distinctive characteristics of the original Renaissance Revival style. Therefore the original four 1920s buildings are not eligible under Criteria C/3/3.

The postwar buildings on campus, while displaying varying degrees of a Mid-Century Modern- and New Formalism-influenced architecture, do not appear eligible under Criteria C/3/3. Although these buildings display modest elements of the styles, such as flat roofs with cantilevered overhangs, they lack the architectural distinction that is required of significant properties for designation under Criteria C/3/3.

7 Integrity

Integrity is the ability of a property to convey its historic significance. In order to retain integrity, the property must possess enough of its character-defining features, materials, and spaces such that it continues to convey the reasons for its significance. According to the National Park Service, there are seven aspects of integrity: location, design, setting, materials, workmanship, feeling, and association.[80]

To retain integrity, a property will always possess several of these aspects, with those relevant aspects depending on the property's significance. Four buildings constructed in the 1920s, the Administrative, Home Economics, Shop, and Academic buildings, are potentially eligible as a representation of pre-1933 Long Beach earthquake school plants. Substantial alterations have affected their integrity, however, to the degree that they no longer effectively convey their significance. Each of the seven aspects of integrity in relation to potentially eligible buildings on the Belvedere Middle School campus, are detailed below. The remaining buildings were not found to be significant under the context of postwar campus planning ideals or any other designation criteria and therefore are not included in the following discussion.

7.1 Location

All four of the 1920s-era buildings on the subject campus are located on their original sites. They retain integrity of location.

7.2 Design

A review of historic photographs reveals that the 1920s era buildings on the Belvedere campus were originally designed in the Renaissance Revival style of architecture, popular for application to school buildings at the time of their construction. In their original design, buildings featured brick facades accented with classical detailing including columns and cornices, multi-light double-hung wood windows and wood panel doors, and clay tile-clad roofs. Following the 1933 Long Beach earthquake, the buildings were substantially altered in 1936, when their detailing was removed and exterior surfaces were sheathed with a gunite plaster. Original designs were further altered through the removal of original windows and doors and the construction of an addition on the front facade of the Administrative Building. These changes substantially altered the original design intention for the buildings. As a result the buildings no longer retain integrity of design.

7.3 Setting

The setting of the 1920s-era Belvedere campus buildings has been altered over the decades. In the time since their construction, the campus parcel has expanded and the surrounding area has become increasingly dense. Buildings that were extant during the campus' initial years of development have been removed from the campus while several others have been added and now surround the 1920s era-buildings. As a result the buildings no longer retain integrity of setting.

[80] U.S. Department of the Interior, National Park Service. 2002. *How to Apply the National Register Criteria for Evaluation* (p. 44-47). National Register Bulletin No. 15. Washington, DC.

7.4 Materials

The Administrative, Home Economics, Shop and Academic buildings have been altered substantially throughout their developmental history. Major alterations to the buildings were first undertaken after the 1933 Long Beach earthquake. In 1936, original materials were extensively removed from the buildings or alternatively covered throughout the wholesale application of a gunite plaster coating to building exteriors. In addition, original wood windows and many of the original wood panel doors have been removed and replaced. As a result of the extensive removal and/obscuring of original building materials, the buildings no longer retain integrity of materials.

7.5 Workmanship

The physical evidence and workmanship of the 1920s-era buildings was conveyed largely in the techniques employed in their initial construction. These techniques include the laying of decorative masonry and application of ornament to the buildings, as well as the construction of elements such as windows and doors. As many of the features and materials that conveyed the workmanship used in the buildings' construction has been removed or obscured, the buildings no longer retain integrity of workmanship.

7.6 Feeling

The integrity of feeling is the quality a property has in evoking a historic sense of past, and is tied in large part to a building's integrity of design, setting, materials, and workmanship. Because all of these aspects of integrity have been compromised, the 1920s buildings on the campus site no longer retain integrity of feeling.

7.7 Association

Similar to feeling, the integrity of association depend on period appearance and is conveyed through the combination of integrity of setting, location, design, workmanship, materials, and feeling. Because the 1920s buildings do not possess many of these aspects, they do not retain integrity of association.

7.8 Summary

The Administrative, Home Economics, Shop, and Academic buildings on the Belvedere Campus are associated with the theme of pre-1933 Long Beach earthquake school plants. However, substantial alterations to the buildings have resulted in a loss of integrity of design, setting, materials, workmanship, feeling, and association. As a result, the building does not meet the integrity considerations identified in *LAUSD Historic Context Statement, 1870-1969* for schools from this era, and the buildings do not appear eligible for federal, state, or local designation.

8 Conclusion

In conclusion, Belvedere Middle School and the buildings it contains are recommended ineligible for federal, state, or local designation under any applicable criteria. The oldest buildings on the campus date to the mid-to-late 1920s, but all were extensively altered after the 1933 Long Beach earthquake and in subsequent decades. The application of PWA Moderne detailing may have had the potential to acquire significance in its own right, but subsequent alterations, including most notably the wholesale replacement of windows in the 1980s and an incompatible addition to the Administrative Building, have resulted in a loss of integrity of design, materials, and workmanship. As a result, these buildings no longer retain integrity and do not meet the registration requirements outlined in the *LAUSD Historic Context Statement*. The subject campus also includes a number of buildings that were developed in the decades after World War II, but they were constructed intermittently over a period of twenty years and are not representative of LAUSD design principles of the postwar era. The campus does not appear eligible for federal, state, or local designation under any applicable criteria and is not considered a historical resource for the purposes of CEQA.

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Appendix A

Resource Records

APPENDIX D

Phase I Cultural Assessment

April 4, 2019

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

Attn: Ms. Christy Wong, Assistant CEQA Project Manager

Subj: Phase I Cultural Assessment for the Belvedere Middle School Project, Los Angeles County, California (*Envicom Project #58-913-101*)

Dear Ms. Wong,
In March of 2019, Envicom Corporation (Envicom) completed a Phase I Cultural Resource Assessment for the proposed Belvedere Middle School replacement project for the Los Angeles Unified School District (LAUSD) (**Figure 1** and **Figure 2**). Belvedere Middle School is located 312 North Record Avenue, Los Angeles, CA 90063 in the community of East Los Angeles in an unincorporated portion of Los Angeles County. The school boundary spans two (2) adjacent parcels totaling 12.1 acres. The western two-thirds of the parcels are developed with 22 buildings and structures, while the eastern third consists of athletic fields. Initially established in 1924 with school buildings on the western parcel, following the 1933 long Beach earthquake the school was redeveloped. Most of the current buildings were added to the campus between 1951 and 2001.

The general location is as follows:

USGS Quad: Los Angeles, CA
Township: 1S, Range: 12W, Section: 31
Lat: 34° 2'21.86"N, Long: 118°10'52.43"W

The Phase I Cultural Resource Assessment included a cultural resource record search conducted by the South Central Coastal Information Center (SCCIC) and a Native American cultural resource record search conducted by the California Native American Heritage Commission (NAHC). Both searches examined the project area, plus a 0.5-mile study area around the project. Additional databases examined during the Phase I Assessment included historic regional maps, historic United States Geological Survey (USGS) maps, and historic Google Earth images. Historic aerial photographs were also examined where available through the University of California Santa Barbara aerial photo archive.

The purpose of the record searches is to identify any known cultural resources previously recorded within or immediately adjacent to the proposed project area, to provide cultural resource context for the project through the examination of the surrounding "study area," and to assess the overall cultural resource sensitivity of the project region. A cultural resource is often defined as any building, structure, object, or archaeological site older than 50-years in age, and can include historic or prehistoric locations of human habitation.

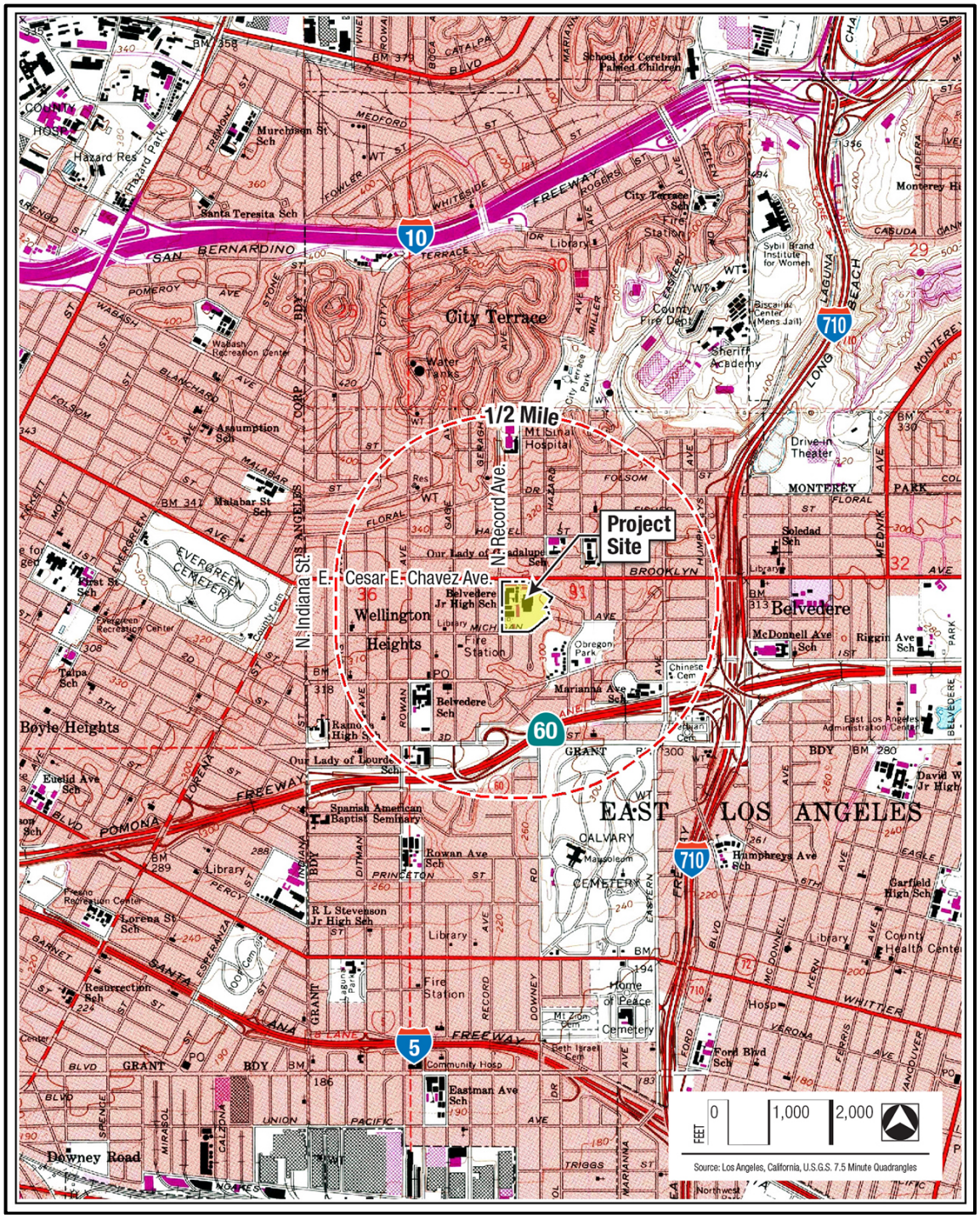


Figure 1: Project Location in Los Angeles, California, with the Study Area Shown (1981 Van Nuys Topographic Map).



Figure 2: The project location, showing urban environment (2018 Google Earth Image).

The Phase I Assessment also included a physical assessment of the project property to determine if previously unrecorded cultural resources could be identified from surface observation. During the pedestrian field survey, any previously identified cultural resources from the SCCIC, or from the other database searches, are re-surveyed and assessed if possible.

If new cultural resources are identified, it becomes the responsibility of the project proponent to authorize a qualified cultural resources expert to complete a State of California Department of Parks and Recreation (DPR) cultural resource site form that provides enough information on the site to present an adequate understanding of the site conditions and the site boundary. Also provided is a general time period of the newly identified cultural resource, any visible major site features, and the types of artifacts present on the surface.

Current Property Conditions

Currently, the project area is fully urban, with pavement or existing buildings covering the majority of the project property (**Figure 3**, **Figure 4**, and **Figure 5**). The property consists of a main older school building fronting north Record Avenue, which has a mixed 1920s Stripped Classicism institutional façade with a stucco covering, which appears to have been an attempt to additionally create a Spanish-Modern impression (**Figure 6**). The decorative architecture is continued to several of the larger buildings away from the main building, which also appear to be part of the older campus. The façade appears to be a characteristic of the oldest structures, however, it is not readily apparent as to which buildings (except the main building) date to 1924, and which date to the 1930s.

The newer school buildings, which were added to the back and sides of the older buildings, and that were used to connect previously separate structures, are a mix of Mid-Century Modern styles and later 20th Century functional styles (**Figure 7** and **Figure 8)**. The impression is that of a mixture of 20th Century styles, which have become function-dominant over time.

Behind the building is a large activity field, which has been created with extensive fill to produce the current horizontal grade (**Figure 9**). To the south of the building is the remnant of a mid-20th Century agricultural educational center, which currently is not in use (**Figure 10**).

The built environment status of the various school buildings have been evaluated in a separate built environment document, which will contain an analysis of the SurveyLA findings. This document exclusively evaluates the property from an archaeological perspective.



Figure 3: The main building of the Belvedere Middle School complex, dating to 1924 (facing northeast).



Figure 4: Late 20th Century buildings have been attached to the north side of the main building (facing northeast).



Figure 5: An older structure is located to the south of the main building (facing southeast).



Figure 6: The institutional Stripped Classicism/Spanish-Modern façade of the original building (facing east).



Figure 7: Another of the older buildings located partially behind the main building, showing the continuation of the mixed Stripped Classicism/Spanish-Modern theme (facing east).



Figure 8: The back of the Belvedere Middle School complex, showing the transition from the Stripped Classicism/Spanish-modern theme to a purely functional style (facing west).



Figure 9: The large athletic field has been created with extensive fill material to produce the current grade (facing northwest).



Figure 10: Older buildings from a mid-20th Century agricultural education area still exist on the south side of the school property (facing northeast).

SCCIC and NAHC Findings

On November 14, 2018, Envicom contacted the SCCIC with a request to search their database for cultural resources located within the project property, plus a 0.5-mile study area for regional cultural resource context (see **Figure 1**). The record search included a request for all complete site records for cultural resources within the project property, as well as copies of any cultural resource technical reports that intersected with the project property location.

Envicom received the cultural resource records search results from the SCCIC on January 9, 2019. The SCCIC record search identified that no previously identified cultural resources were located within the project property. However, seventeen (17) cultural resources were located within the 0.5-mile study area, none being adjacent or close to the Belvedere Middle School. All of the cultural resources were older built environment structures or historic archaeological sites. The project location is, therefore, ***sensitive for older historic or prehistoric cultural resources*** as per the SCCIC.

The SCCIC record search identified no cultural resource reports involving the project property. Eighteen (18) cultural resource reports involve the surrounding 0.5-mile study area. None of these reports, however, involve project areas that are adjacent to or near the Belvedere Middle School. A complete list of reports located within the study area is provided in **Appendix A** of this report.

The NAHC was also contacted on November 14, 2018, with a similar record search request. The results from the 2018 NAHC record search were received on January 29, 2019, with negative findings.

Copies of the request letter to the SCCIC and to the NAHC are included in **Appendix B** of this report. The response letter from the NAHC is also included in Appendix B. The Author's resume is provided in **Appendix C**. Envicom did not contact Native American groups on the NAHC list, as communications with Tribal Group representatives under Assembly Bill-52 is the responsibility of the Lead Agency if required as part of this project. The findings from the SCCIC as to a cultural resource's physical location and details are confidential by state law and are, therefore, not included in this report.

Historical Map Database Search

Examination of historic maps included eighteen historic USGS maps, dating between 1894 and 1981, and two (2) historic maps provided by the SCCIC from 1896 and 1900. These later two maps proved to be duplicates of the USGS maps of the same years.

The 1894 Los Angeles USGS Map shows a regional road network and two (2) residential structures to the west of the future location of the Belvedere Middle School (red cross) (**Figure 11**). The "red cross" mark is a product of the USGS historic map program, and cannot be modified for better clarity. To the east of the project location is a dry wash. The drop in elevation to the east can also be seen on the map, which was later compensated for in the athletic field area by importing extensive fill material. No change can be seen on the 1896 Pasadena USGS Map, nor on the 1900 Pasadena USGS Map, nor on the 1906 Los Angeles USGS map.

The 1924 Alhambra USGS Map shows the development of the Wellington Heights area around the project property, with the outline of the later school property clearly shown (**Figure 12**). This map is important, as it shows an older north-south road through the middle of the current school complex, as well as over two (2) dozen buildings and structures that were once located within the school property boundary. The 1926 Alhambra USGS Map shows similar development in the project property and surrounding area (**Figure 13**). The pronounced bluffs at the east end of the property are clearly shown, suggesting that the center of the athletic fields may have been an actual prominence on the landscape, rather than an even fill area as previously thought. The individual structures are also much clearer on this later map. Since the stated construction date of the Belvedere main building was 1924, either the map date is lagging or the original construction date is wrong by a few years. Hopefully, the built environment report will clarify this discrepancy.

The 1953 Los Angeles USGS Map shows the original Belvedere High School complex, which by this time was surrounded by urban development (**Figure 14**). Visible are seven (7) larger buildings, with the main office flagged. To the south are seven (7) smaller, individual structures, which appear to have been part of the agricultural education area. The athletic field is not developed at this time, indicating that it was a later addition to the complex. Finally, the structures are not connected at this time, being shown as separate buildings.

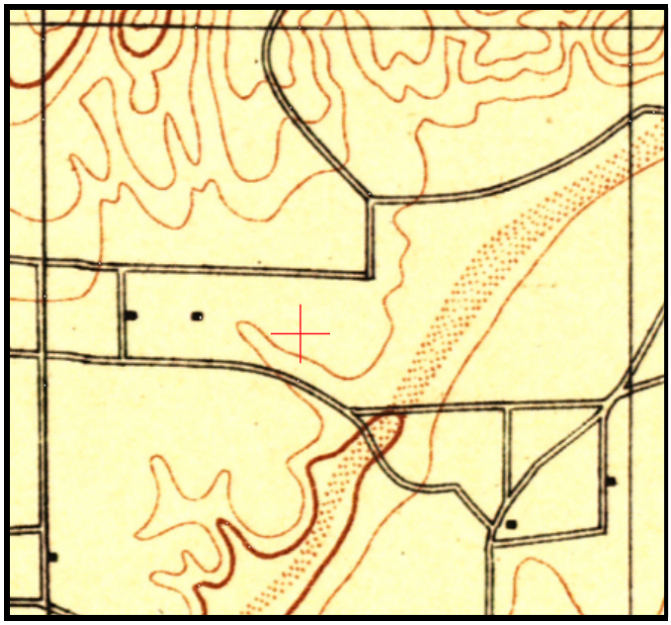


Figure 11: The 1894 Los Angeles USGS Map.

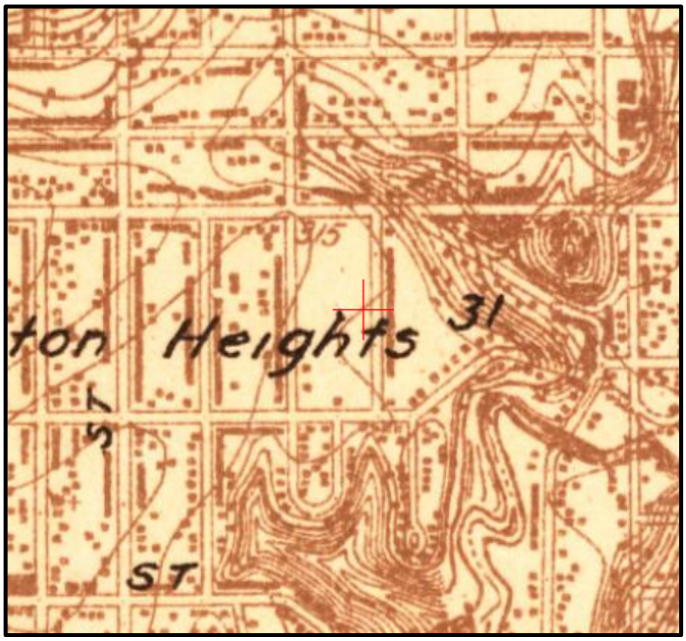


Figure 12: The 1924 Alhambra USGS Map.

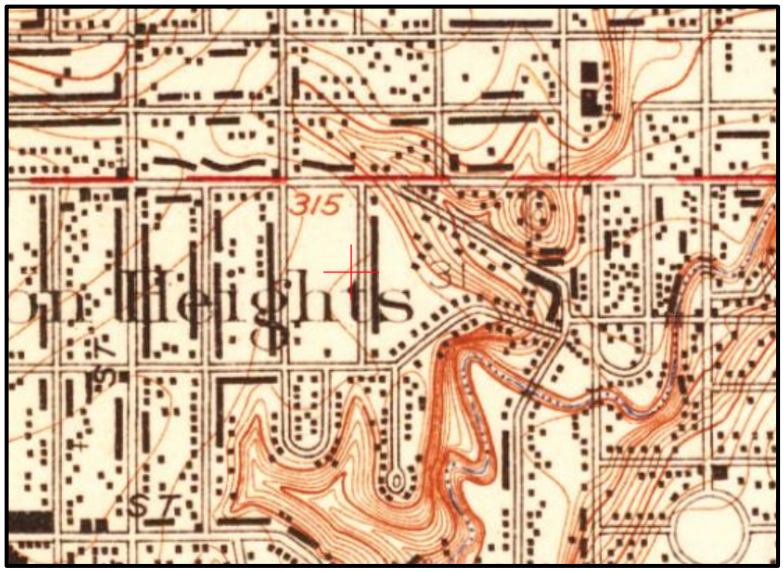


Figure 13: The 1926 Alhambra USGS Map.

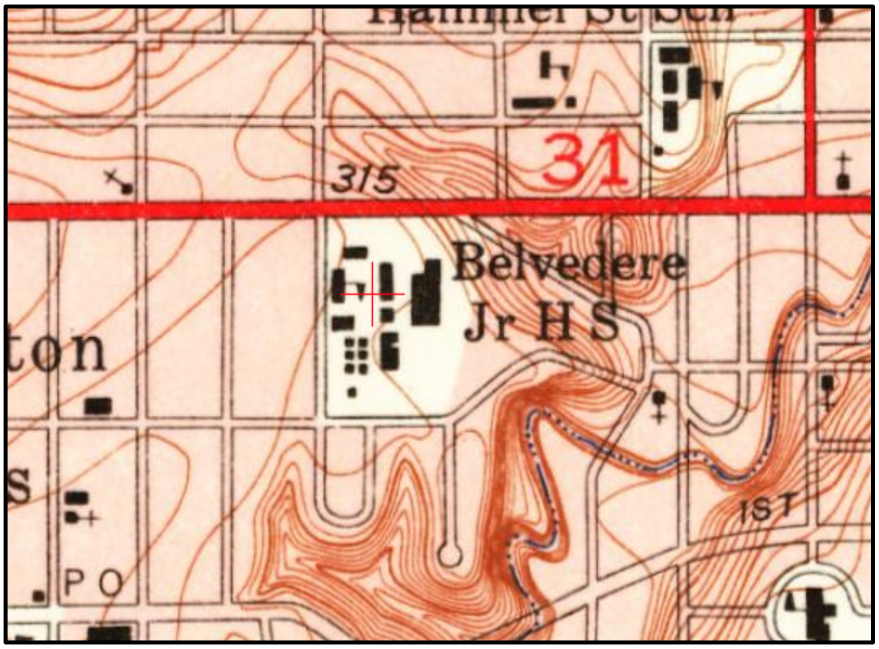


Figure 14: The 1953 Los Angles USGS Map.

The 1966 Los Angeles USGS Map shows the Belvedere High School complex being expanded, with multiple additional large and small buildings being added (**Figure 15**). The buildings are also connected for the first time, and it appears that some of the original structures were removed, with replacement buildings of different sizes being added. The 1972 and 1981 Los Angeles USGS Maps show even more in-filling of buildings until the current pattern of structures is shown.

Examination of historic satellite photos through Google Earth did not see any changes to the project property or buildings from 1979 to present. Examination of the University of California Santa Barbara historic aerial photograph database found a single older aerial photo showing the project property from June, 1928 (**Figure 16**). The aerial photo shows the Belvedere Middle School property and buildings still being constructed. The north-south road that bisected the property at that time is still visible, as is a number of houses located on the east side of the roadway that would later become part of the athletic field.

The review of the land use history, historic maps, and historic satellite images indicated that the project property is within an older historic development region that dated back to the late 1800s. The project property also had extensive residential development during the 1920s, which were later removed for the construction of the Belvedere Junior High/Middle School complex. The project property, therefore, should be considered as being ***sensitive for older historic cultural resources***.

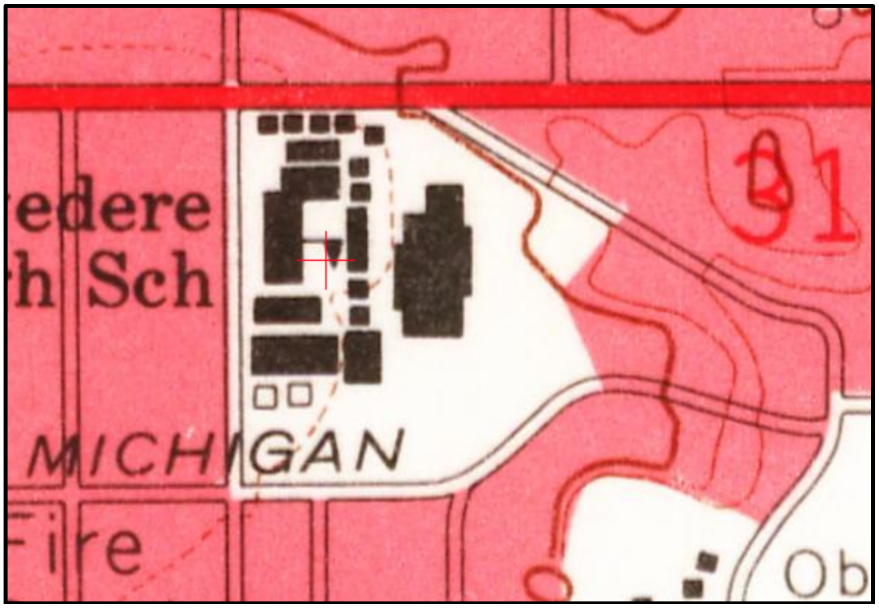


Figure 15: The 1966 Los Angles USGS Map.



Figure 16: The June, 1928 aerial photo of the school complex.

Field Survey Results

Dr. Wayne Bischoff of Envicom visited the project property on March 22, 2019. The ground was not open to visibility due to the built nature of the property, except for within the athletic field and within the older agricultural education area south of the school complex. Examination of the nearby streets and properties confirmed that the athletic field was mostly modern fill and did not follow the original landscape slope (**Figure 17**).

The agricultural education area, however, appeared to follow the original landscape slope, and may contain subsurface artifacts and/or features that are associated with the earliest use of the school (**Figure 18**). Archaeological monitoring of this portion of the Belvedere school complex during grading is, therefore, recommended, as is the areas around the older campus buildings. Monitoring is not recommended for the athletic field fill material portion of the property, nor for the later built environment portion of the property.



Figure 17: The retaining wall supporting the athletic field fill material shows the difference between the modern and past landscape topography (facing north).



Figure 18: The agricultural education area may contain intact deposits and features (facing east).

Paleontological Assessment Results

Examination of the 1989 Thomas Dibblee Jr. geological map for the project area, which is based on the 1980 Los Angeles USGS Quadrangle Map, indicated that the project property is completely contained within older alluvial material (Qoa) (**Figure 19**). Since older alluvial sediments can contain significant fossil resources, spot check monitoring by a qualified paleontologist when grading is within such material is recommended.

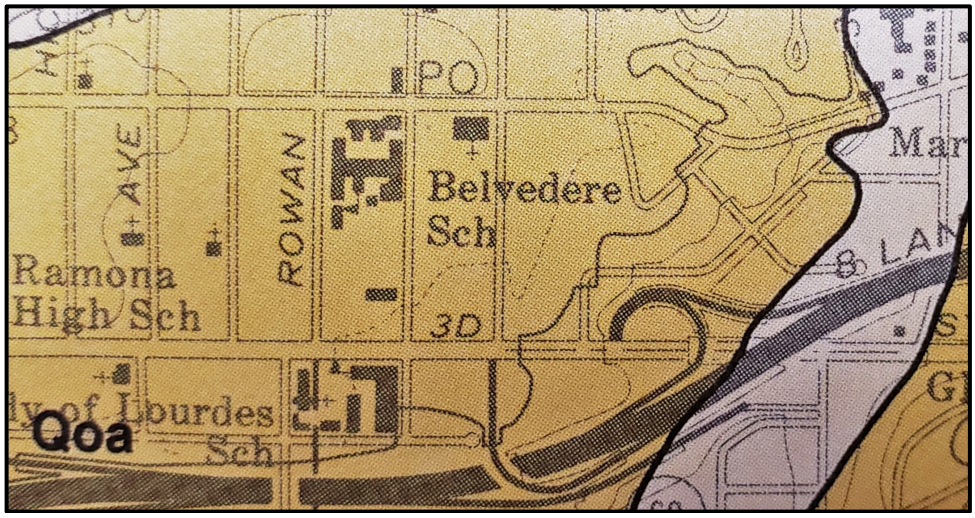


Figure 19: The entire project lies over older alluvial material (Qoa).

RECOMMENDATIONS

The results of the SCCIC and NAHC database record searches were negative for cultural resources within the project property and within the study area. Surface assessment of the property was also negative for cultural resources. However, examination of the surrounding SCCIC study area, the land use history, the historic USGS maps, and historic aerial photo databases indicates that the project property has had early historic residential development dating back to the late 1800s, and extensive local development in the 1920s. Envicom does not recommend further cultural resource assessment prior to construction. However, due to the project being within an area that is sensitive for older historic cultural resources, Envicom makes the following recommendations:

Recommendation 1: Archaeological and Paleontological Monitoring

An archaeological monitor that meets the Secretary of Interior qualifications will be on site during all grading tasks until fill material, older alluvial material, or sterile clay layers are encountered. The archaeological monitor will collect any prehistoric or older historic material that is uncovered through grading that is within a disturbed or sparse context, and can halt construction within 50-feet of a potentially significant cultural resource if necessary.

Artifacts collected from a disturbed or sparse context or that do not warrant additional assessment can be collected without the need to halt grading. However, if prehistoric artifact concentrations, layers, or features, or older historic foundations, artifact concentrations, or significant features are encountered, the project "discovery" protocol should be followed.

A paleontological monitor will spot-check project grading located within older alluvial material. The paleontological monitor will collect any discovered fossil resources, and can halt construction within 50-feet of a potentially significant find if necessary. If a fossil is encountered that cannot be removed during monitoring, then the project "discovery" protocol should be followed.

A final project Monitoring Report will be produced that discusses all monitoring activities and all artifacts and fossils recovered and features identified through monitoring of the project site. Discovery situations that do not lead to further assessment, survey, evaluation, or data recovery can be described in the Monitoring Report. All artifacts and fossils recovered that are important, with diagnostic or location information that may be of importance, will be cleaned, analyzed, and described within the Monitoring Report. All materials will be curated at an appropriate depository. If important materials are found during monitoring, a Curation Plan will be needed that is reviewed by the Lead Agency prior to the publication of the Monitoring Report.

Recommendation 2: Discovery Protocol

If potentially significant intact cultural or paleontological deposits are encountered that are within an undisturbed context, then a "discovery" protocol will be followed. If prehistoric or older historic features, artifact concentrations, or larger significant artifacts are encountered during grading within native soils or original context, then all work in that area shall be halted or diverted away from the discovery to a distance of 50-feet until a qualified senior archaeologist can evaluate the nature and/or significance of the find(s). If the senior archaeologist confirms that the discovery is potentially significant, then the Lead Agency will be contacted and informed of the discovery. Similarly, if fossil resources are encountered during grading that cannot be immediately removed, then all work in that area shall be halted or diverted away from the discovery to a distance of 50-feet until a qualified senior paleontologist can evaluate the nature and/or significance of the find(s). If the senior paleontologist confirms that the discovery is potentially significant, then the Lead Agency will be contacted and informed of the discovery.

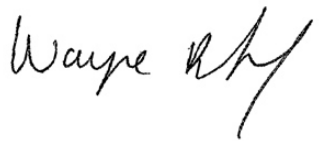
Construction will not resume in the locality of the potentially significant discovery until consultation between the senior archaeologist/senior paleontologist, the project manager, the Lead Agency, and all other concerned parties, takes place and reach a conclusion approved by the Lead Agency. If a significant resource is discovered during earth-moving, complete avoidance of the find is preferred. However, if the discovery cannot be avoided, further survey work, evaluation tasks, or data recovery of the significant resource may be required by the Lead Agency. The Lead Agency may also require changes to the Monitoring Plan, based on the discovery.

Recommendation 3: Inadvertent Discovery of Human Remains.

The inadvertent discovery of human remains is always a possibility during ground disturbances; State of California Health and Safety Code Section 7050.5 addresses these findings. This code section states that in the event human remains are uncovered, no further disturbance shall occur until the County Coroner has made a determination as to the origin and disposition of the remains pursuant to California Public Resources Code Section 5097.98. The Coroner must be notified of the find immediately, together with the City and the property owner.

If the human remains are determined to be prehistoric, the Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). The MLD shall complete the inspection of the site within 48 hours of notification and may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials and an appropriate re-internment site. The Lead Agency and a qualified archaeologist shall also establish additional appropriate mitigation measures for further site development, which may include additional archaeological and Native American monitoring or subsurface testing.

Sincerely,



Dr. Wayne Bischoff
Director of Cultural Resources

ATTACHMENTS:

Appendix A: List of Previous Completed Cultural Resource Reports in the Study Area
Appendix B: SCCIC and NAHC Request Letters and NAHC Response Letter
Appendix C: Resume of Dr. Wayne Bischoff (author)

Appendix A

List of Previous Completed Cultural Resource Reports in the Study Area

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
LA-00151		1988	Bissell, Ronald M. and Rodney E. Raschke	Cultural Resources Reconnaissance of the Los Angeles County Reception Center Site and Six Small Off Site Areas, Los Angeles County, California	RMW Paleo Associates, Inc.	
LA-02788	Paleo -	1992	Brown, Joan C.	Archaeological Literature and Records Review, and Impact Analysis for the Eastside Corridor Alternatives Los Angeles, California	RMW Paleo Associates, Inc.	19-000007
LA-03304		1996	Maki, Mary K.	Negative Phase I Archaeological Survey of 0.36 Acre at 3942 East Second Street Los Angeles County, California	Fugro West, Inc.	
LA-03407		1994	Stickel, Gary E.	A Phase 2 Cultural Site Survey for the Rio Hondo Water Reclamation Program	Environmental Research Archaeologists	
LA-03408		1994	Stickel, Gary E.	Draft Report: a Cultural Resources Literature Search for the Rio Hondo Water Reclamation Program	Environmental Research Archaeologists	
LA-03414		1996	Maki, Mary K.	Negative Phase 1 Archaeological Survey of 0.36 Acre at 3942 East Second Street Los Angeles County, California	Fugro West, Inc.	
LA-04883		2000	Storey, Noelle	Negative Archaeological Survey Report - Highway Project Description	Caltrans	
LA-05415		2000	Smith, Philomene C.	Negative Archaeological Survey Report: 07-la-710-kp-36.5/43.8-170-1y2501, 710 in Commerce	Caltrans District 7	
LA-05439		2000	Duke, Curt	Cultural Resource Assessment for At&t Fixed Wireless Services Facility Number La_449_a, County of Los Angeles, Ca	LSA Associates, Inc.	
LA-07530		2004	Bonner, Wayne H.	Indirect Ape Historic Architectural Assessments for Cingular Telecommunications Facility Candidate Sm-274-02 (sce Wabash Substation) Folsom Street and Rowan Avenue, Los Angeles, Los Angeles County, California	Michael Brandman Associates	
LA-07538		2005	Maki, Mary K.	Phase 1 Archaeological Investigation of 1.71 Acres for the First Street Apartments Project 115-121 Bonnie Beach Place, East Los Angeles Unincorporated Los Angeles County, California	Conejo Archaeological Consultants	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
LA-08300		2006	Bonner, Wayne H.	Cultural Resources Record Search and Site Visit Results for T-mobile Candidate le05265b (our Lady of Guadalupe Flagpole), 436 North Hazard Avenue, Los Angeles, Los Angeles County, California	Michael Brandman Associates	
LA-08529		2006	Covert, John and Kevin Hunt	Archaeological Survey of the Proposed Nextel Cellular Communications Site, 3830 and 3820 East 1st St., Los Angeles, Los Angeles County, California 90063	SWCA Environmental Consultants, Inc.	
LA-09605		2008	Bonner, Wayne H. and Kathleen A. Crawford	Cultural Resources Records Search and Site Visit Results for T-Mobile USA Candidate SV11710A (Maldonado Palm), 3711 East 1st Street, Los Angeles, Los Angeles County, California.	Michael Brandman Associates	19-003552, 19-003553
LA-09844		2001	Anonymous	Draft: Los Angeles Eastside Corridor, Revised Cultural Resources Technical Report, Final Supplemental Environmental Impact Statement/Final Subsequent Environmental Impact Report	Greenwood & Associates, and Eastside Corridor Transit Consultants	19-000007, 19-000887, 19-001575, 19-002563, 19-150194, 19-150195, 19-150196, 19-150197, 19-150198, 19-150199, 19-150200, 19-150201, 19-150202, 19-150203, 19-150204, 19-150205, 19-150206, 19-150207, 19-150208, 19-150210, 19-150211, 19-150213, 19-150214, 19-150215, 19-150216, 19-150217, 19-150218, 19-150219, 19-150220, 19-150221, 19-150222, 19-150223, 19-150224, 19-150225, 19-150226, 19-150227, 19-150228, 19-150229, 19-150230, 19-150231, 19-150232, 19-150233, 19-150235, 19-150236, 19-150237, 19-150238, 19-150239, 19-167030, 19-167081, 19-171159, 19-172755, 19-174939, 19-174940, 19-174943, 19-174945, 19-174950, 19-174957, 19-174968, 19-174971, 19-174974, 19-174975, 19-174976, 19-175328, 19-176600, 19-187722
LA-10805		2009	Gust, Sherry and Amy Glover	Cultural Resources Mitigation Compliance Report for the Metro Gold Line Eastside Extension, City of Los Angeles, California. For the Period 2004 to 2006	Cogstone Resource Management, Inc.	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
LA-10806	Paleo -	2010	Loftus, Shannon L.	Addendum-Paleontological and Cultural Resource Compliance Monitoring Report, Los Angeles County, Metropolitan Transit Authority, Eastside Gold Line Transit Corridor Project	ArchaeoPaleo Resource Management, Inc.	19-004171, 19-004172, 19-004173, 19-004174, 19-004175, 19-004176, 19-004177, 19-004178, 19-100881, 19-100882, 19-100883, 19-100884, 19-100885, 19-100886, 19-100887
LA-10856		2004	Glenn, Brian K. and Sherri Gust	Cultural Resource Monitoring and Mitigation Plan for the Los Angeles County Metropolitan Transportation Authority Eastside Gold Line Transit Corridor, Los Angeles, Los Angeles County, California	Cogstone Resource Management Inc.	

Appendix B

SCCIC and NAHC Request Letters and NAHC Response Letter

November 14, 2018

Stacy St. James, Coordinator
South Central Coastal Information Center
C.S.U.F, Dept. of Anthropology, MH 426
800 N. State College Blvd.
Fullerton, CA 92834-6846

Attn: Ms. St. James

Subj: Phase I Cultural Assessment for the Belvedere Middle School Project, Los Angeles County, California. ***(Envicom Project* #58-913-101*)***

Dear Ms. St. James:

Envicom is requesting an **EXPEDITED** record search of the SCCIC database for cultural resources within the attached Project area, plus a **0.5-mile study area**. The Project is located at:

USGS Quad: Los Angeles, CA
Township: 1S, Range: 12W, Section: 31
Lat: 34° 2'21.86"N, Long: 118°10'52.43"W

We are requesting to receive the following: Resource Database Printout (list), Resource Database Printout (details), Resource Digital Database (spreadsheet), Report Database Printout (list), Report Database Printout (details), and Historical Maps.

We also request the complete reports and/or site records for any cultural resources found within the project area only, not the 0.5 mile study area.

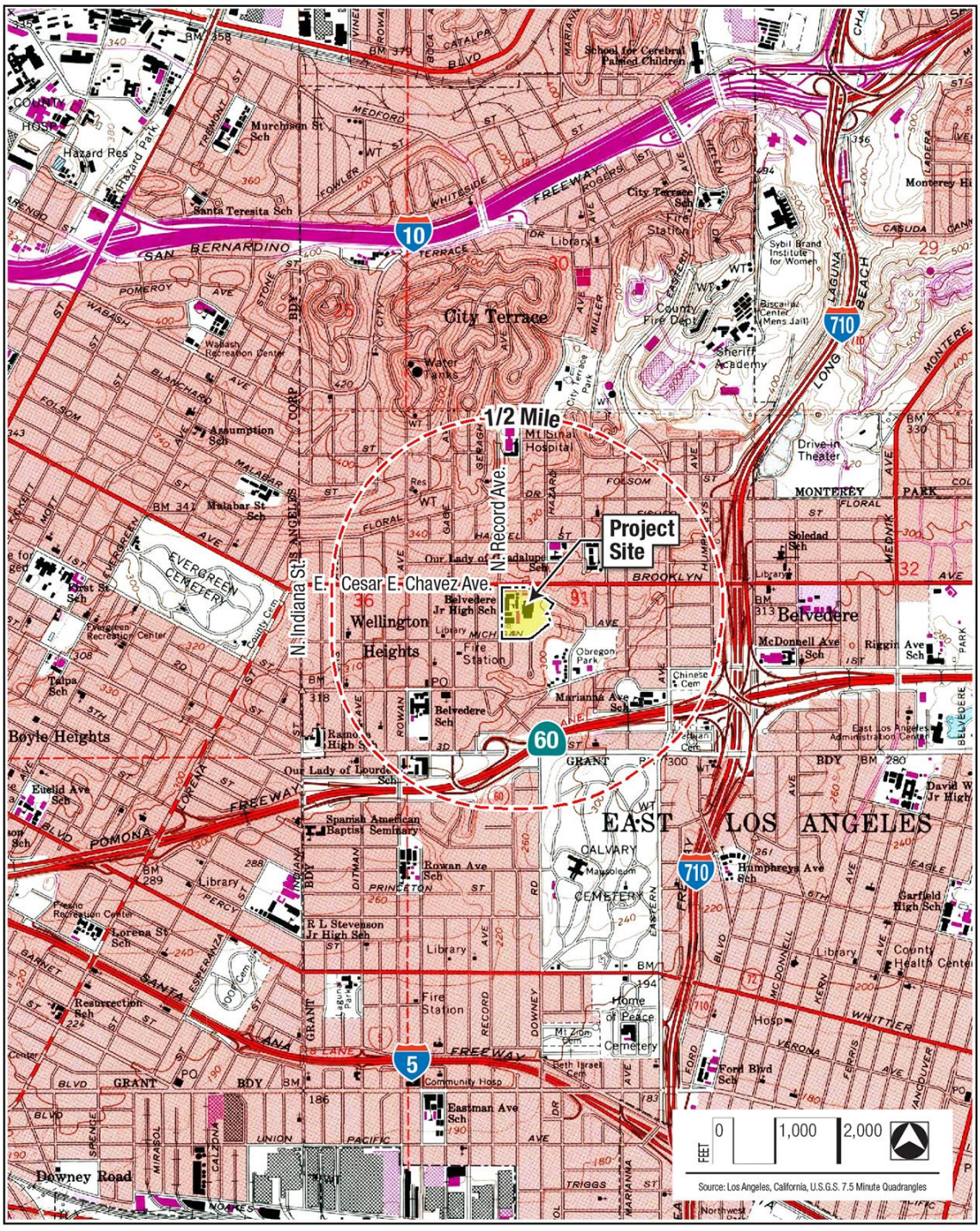
Envicom appreciates the SCCIC's help with this request. For correspondence or questions regarding this Project, please contact Wayne Bischoff at 818-879-4700 (wbischoff@envicomcorporation.com).

Sincerely,

Wayne Bischoff

Dr. Wayne Bischoff
Director of Cultural Resources

Attachment: Project vicinity map on 1:24,000 topographic map


1/2 Mile
Project Site
N. Record Ave.
N. Indiana St.
E. Cesar E. Chavez Ave.
City Terrace
Wellington Heights
Belvedere
EAST LOS ANGELES
Boyle Heights
Downey Road
MONTEREY PARK
Mt Sinai Hospital
Belvedere Jr High Sch
Our Lady of Guadalupe Sch
Evergreen Cemetery
Calvary Cemetery
Home of Peace Cemetery
Mt Zion Cem
Hazard Park
Obregon Park
Laguna Park
Fire Station
Library
Water Tanks
Sheriff Academy
County Fire Dept
Drive-in Theater
Community Hosp
Hosp
Rowan Ave Sch
Belvedere Sch
Eastman Ave Sch
Humphreys Ave Sch
Garfield High Sch
Lorena St Sch
Resurrection Sch
Assumption Sch
Malabar St Sch
Soledad Sch
McDonnell Ave Sch
Riggin Ave Sch
Marianna Ave Sch
Ford Blvd Sch
Euclid Ave Sch
Talpa Sch
Our Lady of Lourdes Sch
Spanish American Baptist Seminary
R L Stevenson Jr High Sch
Santa Teresita Sch
Murchison St Sch
City Terrace Sch
Sybil Brand Institute for Women
Biscailuz Center (Mens Jail)
Wabash Recreation Center
Fresno Recreation Center
Evergreen Recreation Center
10
60
5
710
FEET
0
1,000
2,000
Source: Los Angeles, California, U.S.G.S. 7.5 Minute Quadrangles

November 14, 2018

Native American Heritage Commission
1550 Harbor Boulevard, Room 100
West Sacramento, CA 95691

Subj: Phase I Cultural Assessment for the Belvedere Middle School Project, Los Angeles County, California. ***(Envicom Project* #58-913-101*)***

Greetings,

Envicom is requesting a record review of your records for cultural resources for the Project area, plus a **0.5-mile buffer**. We also request a list of Tribal Group representatives for the area in case we need to contact their offices.

The Project is located at:

USGS Quad: Los Angeles, CA
Township: 1S, Range: 12W, Section: 31
Lat: 34° 2'21.86"N, Long: 118°10'52.43"W

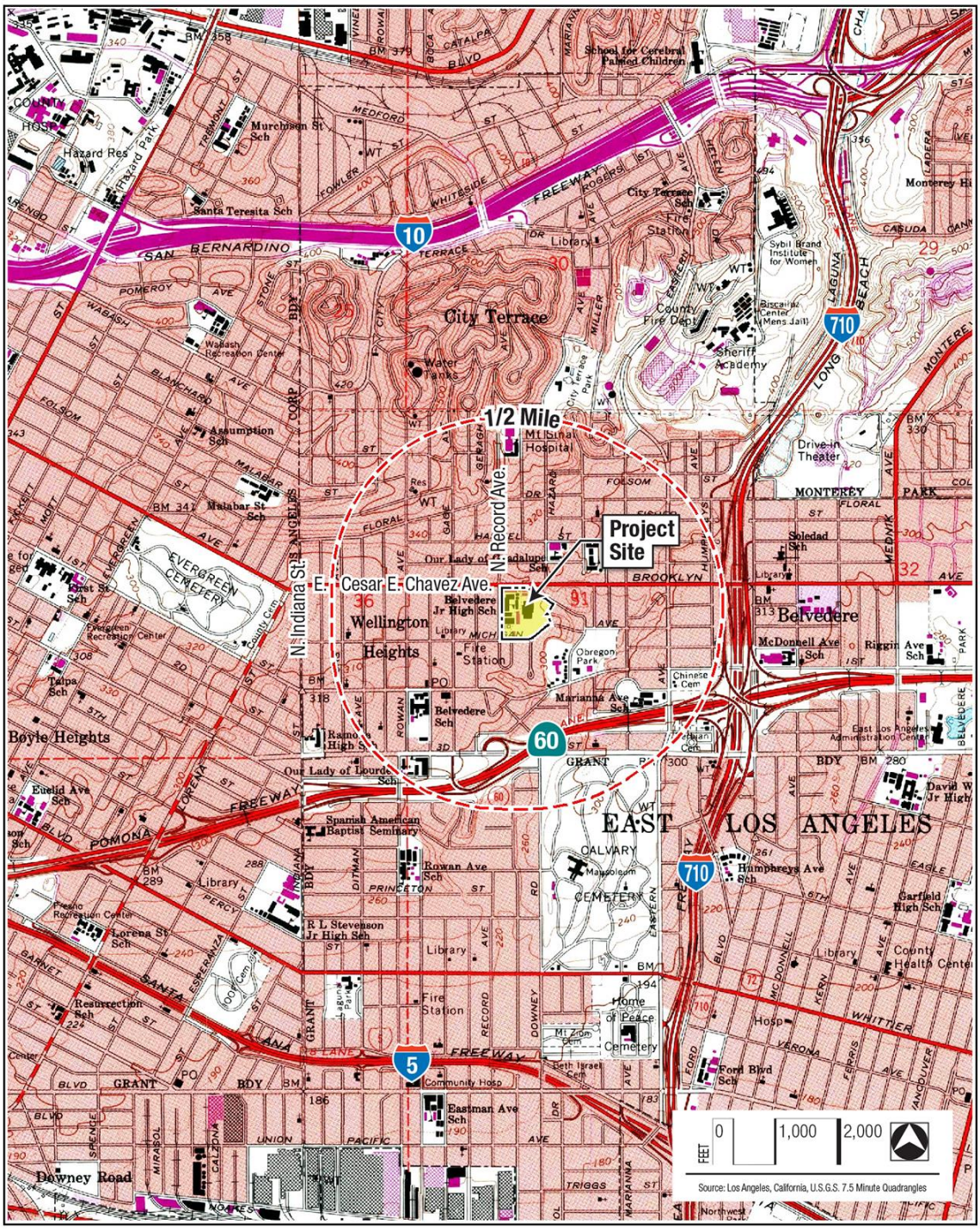
Envicom appreciates the NAHC's help with this request. For correspondence or questions regarding this Project, please contact Wayne Bischoff at 818-879-4700 (wbischoff@envicomcorporation.com).

Sincerely,



Dr. Wayne Bischoff
Director of Cultural Resources

Attachment:
Project vicinity map on 1:24,000 topographic map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Wellington Heights
Belvedere
EAST LOS ANGELES
Boyle Heights
Downey Road
MONTEREY PARK
Mt Sinai Hospital
Belvedere Jr High Sch
Our Lady of Guadalupe Sch
Soledad Sch
Evergreen Cemetery
Calvary Cemetery
Home of Peace Cemetery
Mt Zion Cem
Hazard Park
Hazard Res
Murchison St Sch
Santa Teresita Sch
City Terrace Sch
Fire Station
Library
Water Tanks
Sybil Brand Institute for Women
Biscailuz Center (Mens Jail)
County Fire Dept
Sheriff Academy
Drive-in Theater
Wabash Recreation Center
Assumption Sch
Malabar St Sch
First St Sch
Evergreen Recreation Center
Talpa Sch
Obregon Park
Chinese Cem
Marianna Ave Sch
McDonnell Ave Sch
Riggin Ave Sch
Belvedere
Ramona High Sch
Our Lady of Lourdes Sch
Euclid Ave Sch
Spanish American Baptist Seminary
Rowan Ave Sch
Humphreys Ave Sch
Garfield High Sch
Fresno Recreation Center
Lorena St Sch
R L Stevenson Jr High Sch
Library
County Health Center
Resurrection Sch
Fire Station
Community Hosp
Eastman Ave Sch
Ford Blvd Sch
Hosp
Laguna Park
Lincoln Park
Pecan Park
Obregon Park
Fire Station
Library
Water Tanks
Res
Cemetery
Chinese Cem
Cemetery
Hosp
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Park
Rec Center
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NATIVE AMERICAN HERITAGE COMMISSION
Cultural and Environmental Department
1550 Harbor Blvd., Suite 100 West Sacramento, CA 95691 Phone: (916) 373-3710
Email: nahc@nahc.ca.gov
Website: http://www.nahc.ca.gov
Twitter: @CA_NAHC

December 5, 2018

Dr. Wayne Bischoff
Envicom Corporation

VIA Email to: wbischoff@envicomcorporation.com

RE: Belvedere Middle School Project, Los Angeles County.

Dear Dr. Bischoff:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: katy.sanchez@nahc.ca.gov.

Sincerely,

Katy Sanchez

KATY SANCHEZ
Associate Environmental Planner

Attachment

Native American Heritage Commission
Native American Contacts List
12/5//2018

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393 Gabrielino
Covina ,CA 91723
admin@gabrielenoindians.org
(626) 926-4131

Gabrielino-Tongva Tribe
Charles Alvarez, Councilmember
23454 Vanowen St. Gabrielino
West Hills ,CA 91307
roadkingcharles@aol.com
(310) 403-6048

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693 Gabrielino Tongva
San Gabriel ,CA 91778
GTTribalcouncil@aol.com
(626) 483-3564 Cell
(626) 286-1262 Fax

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231 Gabrielino Tongva
Los Angeles ,CA 90012
sgoad@gabrielino-tongva.com
(951) 807-0479

Gabrielino Tongva Indians of California Tribal Council
Robert F. Dorame, Chairman
P.O. Box 490 Gabrielino Tongva
Bellflower ,CA 90707
gtongva@gmail.com
(562) 761-6417 Voice/Fax

Gabrielino-Tongva Tribe
Linda Candelaria, Chairperson
80839 Camino Santa Juliana Gabrielino
Indio ,CA 92203
lcandelaria1@gabrielinotribe.org

This list is current as of the date of this document and is based on the information available to the Commission on the date it was produced.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code,Section 5097.94 of the Public Resources Code, or Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native American Tribes for the proposed:
Belvedere Middle School Project, Envicom Project # 58-913-101, Los Angeles County.

Appendix C

Resume of Dr. Wayne Bischoff (author)

Wayne Bischoff, Ph.D.

Professional Resume
***Registered Professional Archaeologist (RPA** #32450562)*

Education

2000 Ph.D. in Anthropology (Historical Archaeology emphasis), Michigan State University, East Lansing, MI.
1991 Bachelor of Arts (Anthropology, Education, and U.S. History), Purdue University, West Lafayette, IN.

Professional Summary

- **Over 25 years' experience managing projects** and ensuring compliance with the **California Environmental Quality Act** (CEQA), **Section 106 and 110** of the **National Historic Preservation Act** (NHPA), the **National Environmental Protection Act** (NEPA), as well as numerous other federal and state laws regarding cultural resources.
- **Successful performance history** of completing challenged projects and developing successful cultural resource teams. Dr. Bischoff has managed up to 60 professional staff in multiple offices covering several states. Experienced with budgeting, scoping projects, successful proposal writing, client and agency relationships, and large project management. ***Personal business development amounting to millions of dollars over the last 10-years.***
- **Market sectors include:** solar, wind, geothermal, and transmission line projects; defense, public works, education, residential and commercial development; telecommunication, mining, transportation, and water resources; and storm and sewer lines, industrial sites, and railroads. ***My business development has been in all these sectors.***
- I have been an author on **Environmental Impact Reports** (EIR), **Mitigated Negative Declarations** (MND), **Environmental Impact Statements** (EIS), **Environmental Assessments** (EA), **Programmatic Agreements** (PA), and **Memorandum of Agreements** (MOA), and **Memorandum of Understanding** (MOU).
- **Extensive Experience with Federal, State, County, and Local Agencies:** SHPOs, FHA, NPS, and CALTRANS. Multiple Bureau of Land Management districts (Barstow, Bishop, Moreno Valley, Needles, El Centro, Nevada). The Army and National Guard, Marine Corps, Navy, and Air Force. The GSA, the USDA, Forest Service, California Coastal Commission, and several USCOE districts, LACDPW, LADWP, many regional water districts. Fish and Wildlife, the CPUC, and the Counties of Los Angeles, San Bernardino, Riverside, Ventura, Imperial, Kern, Santa Clara, Inyo, Mono, Santa Barbara, San Diego, and Orange. Many port authorities, state agencies, and local governments.
- **Consultation and Communication with Many Tribal Groups** (Chumash, Gabrielino, Tongva, Washo, Piute, Quechan, Cahuilla, Tataviam, San Manuel, Morongo, Luiseno). ***I am a professional expert in AB-52, and Tribal consultation.***

4165 E. Thousand Oaks Blvd., Suite 290, Westlake Village, CA 91362 • (818) 879-4700 • www.envicomcorporation.com

- **Over 400 cultural resource projects completed** in eleven states, including hundreds of **Phase I Surveys, Phase II Evaluations, Phase III Data Recoveries, and Monitoring Projects** completed. I have authored cultural resource **Monitoring Plans, Evaluation Plans**, **Data Recovery Plans, PRIMPs, Construction Phase Management Plans**, **WEAPs**, **Feasibility Studies**, and **National Register** and **National Landmark** nominations.
- **Historic Architecture Project Management.** Including built environment surveys and inventories, building assessments and evaluations, HABS/HAER mitigation reports, landscape studies, and indirect effects reports.
- **Broad Experience Working with Biological, SWPPP, UXO, Air, Planning Documents, and Permit teams.** I have worked with integrated projects with biological, 401 and 404 permits, air, noise, dust, and SWPPP regulations.

Professional Experience

Cultural Resources Director, Envicom Inc., Westlake Village, CA
February, 2014 – Current
As Cultural Resources Director at Envicom, I complete all cultural resource, archaeological paleontologist, Native American consultation, and built environment projects for Envicom, and author cultural resource sections of permitting and planning documents. Project area includes Ventura, Santa Barbara, San Luis Obispo, Kern, Los Angles, Riverside, and San Bernardino Counties. I oversee cultural staff and work with planning teams on larger projects. I am also responsible for business development and project management tasks. I write proposals, oversee quality control, develop agency relationships, write technical reports, and manage and develop budgets.
Projects:

- **Yerba Buena Road Project monitoring, County of Ventura, CA.** Principal and Project Manager for this cultural resource monitoring project. Project includes the recordation of a historic homestead. (Upcoming)
- **Cultural Resource Monitoring of the 21121 VanOwen development project, Canoga Park, Los Angeles County, CA.** Principal and Project Manager for the this smonitoring project. (Upcoming)
- **Malibu Bluffs Park Cultural Monitoring, City of Malibu, CA.** Principal and Project Manager for this cultural monitoring project. (Upcoming)
- **Agoura Hills Trails Expansion Project, City of Agoura Hills, Los Angeles County, CA.** Principal and Project Manager for assessing the Pepperdine University Archaeological Collection for final storage (Upcoming)
- **Phase I Survey of roughly 28-acres for Improvements on the Cielo Wines Property in the Santa Monica Mountains, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (Upcoming)

- **Arrowhead Estates Project, Banning, Riverside County, CA.** Principal and Project Manager for multiple historic and prehistoric tasks, including completion of the project Evaluation and Data Recovery, consultation with the Morongo Tribal Group, construction monitoring, and Data Recovery of a historic canal through the property. (Upcoming)
- **Phase I Survey of the Riverwalk Mixed-Use Project, Santa Clarita, CA.** Principal and Project Manager for this commercial and Residential Project. Project included a record search and a site visit. (March 2019 – Current).
- **Phase I Survey of the West Village Project, Calabasas, CA.** Principal and Project Manager for this Army Corps of Engineers (ACOE) permitting project. Project included a record search and a site visit, as well as SHPO review. (March 2019 – Current)
- **Los Angeles Unified School District (LAUSD) Environmental On-Call for archaeological and paleontological tasks, Los Angeles County, CA.** Principal, Project Manager, and cultural resource task completion as needed. Envicom is one of three selected vendors for one year, with four potential renewable years in the contract. (January 2019 – Current)
- **Los Angeles Community College District Environmental On-Call (including cultural resources), Los Angeles County, CA.** Principal, Project Manager, and cultural resource consultant as needed. (February 2018 – Current)
- **Los Angeles Unified Schools Department (LAUSD) Environmental On-Call (including cultural resources), City of Los Angeles, Los Angeles County, CA.** Principal, Project Manager, and cultural resource consultant as needed. Envicom was one of 15 companies to be awarded this large on-call contract. (February 2017 – Current)
- **Review of Technical Documents and EIR Cultural Section Writing for "The Agroua Village Expansion" project, Agoura Hills, Los Angeles County, CA.** Professional review of project cultural resource documents and authoring of cultural resource section of MND for this large mixed use project. The primary challenge is that the development is located on a significant prehistoric Native American cultural resource. (January 2018 – Current)
- **Cultural and Paleo Monitoring for the Agoura Landmark Development Project, Agoura Hills, CA.** Principal and Project Manager for this monitoring project. (January 2019 – Current)
- **CA-LAN-321 Phased Evaluation Project, Agoura Hills, Los Angeles County, CA.** Principal and Project Manager for the phased evaluation (Phase II) of CA-LAN-321 in response to potential impacts from the construction of the Conrad N. Hilton Foundation Phase 2 Campus Building. The site is a prehistoric Chumash residential and ceremonial center of over 80-acres in size and that was used by prehistoric Native Americans from 300 B.C. to the late 1700s. Dozens of test units, hundreds of shovel test pits, surface collection, and surface feature mapping have been completed to date planned. (August 2015 – Current)
- **Phase I Survey "The Angel" Project, Los Angeles County, CA.** Principal and Project Manager for this low income housing project in the San Fernando Valley. Project included a record search and a site visit. (January 2019 – March 2019)

- **Phase I Survey of the Belvedere Middle School Improvements Project, City of Los Angeles, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search and NAHC record search request for LAUSD. (November 2018 – March 2019)
- **Phase II Evaluation of CA-LAN-41 within the Boundary of the Agoura Village project, City of Agoura Hills, Los Angeles County, CA.** Principal and Project Manager for the completion of an Evaluation (Phase II) of a complex prehistoric cultural resource within the boudary of the Agoura Village project. The Phase II involved the excavation of a number of test units, as well as more detailed mapping of the site. (January 2019 – March 2019)
- **Phase I Survey of the Deer Lake Water Tank Project, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey for the Los Virgenes Municipal Water District. (November 2018 – March 2019)
- **Phase I Survey of the Sherwood Development Corporation, Tract 4409, Ventura County, CA.** Principal and Project Manager for this Army Corps of Engineers (ACOE) permitting project. Project included a record search and a site visit, as well as SHPO review. (January 2019 – February 2019)
- **City of Thousand Oaks Environmental On-Call (Including Cultural Resources), Los Angeles County, CA.** Envicom was selected as one of a limited number of on-call environmental firms for the City. (June 2015 – December 2018)
- **Phase II Evaluation of Cultural Resource CA-LAN-513 within the Boundary of the Sea Star Estates Residential Development within the City of Malibu, Los Angeles County, CA.** Principal and Project Manager for this Phase II evaluation, which involved limited shovel test pits and surface examination. No evidence of a cultural resource was found. (November 2018 – December 2018)
- **Phase I Survey for the Massilia Spa Project, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. Project also includes an inventory and initial assessment of over a dozen 1930 through 1990 structures on the property (June 2018 – December 2018)
- **Phase I Survey of the Conejo Creek Park, City of Thousand Oaks, Ventura County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (August 2018 – November 2018)
- **Phase I Survey of the Butler Ranch, in Ventura County near west Simi Valley, California.** Principal and Project Manager for the completion of a Phase I record search, NAHC record search request, and a site survey of this 332-acre low density residential development project. (May 2018 – October 2018)
- **Valencia Travel Village, Valencia, Los Angeles County, CA.** Principal and Project Manager for the completion of a Phase I for trailer park and recreation center. (August 2018 – October 2018)
- **Phase I Survey of the JPA Solar Farm, Calabasas, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey for the Los Virgenes Municipal Water District. This 20-acre solar project also addressed a large prehistoric Native American site located next to and partially on the property. Project included Native American

consultation with the Lead Agency and the Tatatviam and the recordation of two prehistoric petroglyphs (August 2018 – October 2018)

- **Simi BMX Course Phase I Survey, Simi Valley, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (July 2018 – August 2018)
- **Phase I Paleontological Survey of the 3467 Camino de la Cumbre Property in Sherman Oaks, Los Angeles County, CA.** Principal and Project Manager for the completion of a Natural History Museum record search and paleo report. (August 2018)
- **Phase I Survey for the 17-acre Olivas Park Extension commercail development project in Ventura, Ventura County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey, followed by limited monitoring. (January 2018 – June 2018)
- **Phase I(b) Survey of the proposed Forrest Club 50-acre private club development, Los Angeles County, CA (with Samantha Whittington and Charlie Fazzone).** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. In addition, 24 shovel test pits were excavated across the locations of two 1920s historic cabins. No further work was required. (April 2018 – June 2018)
- **Phase I Survey for the Ascension Lutheran Church Master Plan and MND, Thousand Oaks, California, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (May 2018 – June 2018)
- **Phase I Survey for the Mulholland Senior Living Project, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (May 2018 – May 2018)
- **Phase I Survey of the proposed Tapo at Alamo EIR for a mixed-use development project, Simi Valley, Ventura County, CA (with Samantha Whittington and Debbie Balam).** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (March 2018 – May 2018)
- **Cultural, Paleo, and Native American Monitoring for the Agoura Hills Marriott Development Project, Agoura Hills, CA.** Principal and Project Manager for this monitoring project. During monitoring, a prehistoric Chumash cultural resource was discovered, which led to artifact collection, analysis, and a final report of findings (January 2018 – May 2018)
- **Phase I Survey of the proposed 113-133 West Plymouth Street multiple unit residential development, Inglewood, Los Angeles County, CA (with Samantha Whittington, Debbie Balam, and Charlie Fazzone).** Principal and Project Manager for the completion of a record search, paleontological record search, NAHC record search request, and a site survey. Additional tasks included writing for the cultural section of the MND document (April 2018 – August 2018)
- **Phase I Survey of the Upper Bailey Road tract, Sylmar, Los Angeles County, CA (with Samantha Whittington and Debbie Balam).** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (December 2017 – April 2018)

- **Phase I Survey of the Lower Bailey Road tract, Sylmar, Los Angeles County, CA (with Samantha Whittington and Debbie Balam).** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (December 2017 – April 2018)
- **Historic Structure Evaluation of Blythe Elementary School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. (February 2018 – April 2018)
- **Historic Structure Evaluation of Robert Hill Lane Elementary School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. (February 2018 – April 2018)
- **Historic Structure Evaluation of James Madison Middle School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. School was found eligible for the CRHR. (February 2018 – April 2018)
- **Historic Structure Evaluation of 54th Street Elementary School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. School was found eligible for the CRHR. (February 2018 – April 2018)
- **Historic Structure Evaluation of Chapman Elementary School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. (February 2018 – April 2018)
- **Historic Structure Evaluation of Dena Street Elementary School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. (February 2018 – April 2018)
- **Historic Structure Evaluation of Patrick Henry Middle School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. School was found eligible for the CRHR. (February 2018 – April 2018)
- **Historic Structure Evaluation of Richland Avenue Elementary School for LAUSD.** Project Manager for this project, with Chattel, Inc., being the historic preservation consultant. (February 2018 – April 2018)
- **Marinette Road Residential Development, Pacific Palisades, Los Angeles County, CA.** Principal and project manager for this development project, which included a record search, site survey, Tribal Group scoping letters, and agency consultation. The major challenge was that the project property was within the Will Rogers State Monument and National Register site boundary. An update for this project was conducted in 2018 to include AB-52 compliance. (February 2015 – May 2015; January 2018 – April 2018)
- **Phase I Survey for 6956 Dume Drive, Malibu, California, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. (February 2018 – March 2018)
- **Phase I Survey of roughly 50-acres for Improvements on the Saddlerock Ranch/Malibu Wines Property in the Santa Monica Mountains, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC scoping, and a site survey. This project involves upgrades to the winery

existing structures and public buildings, as well as road and parking improvements. Part of this project is located near a National Register Chumash rock art site as well as other prehistoric resources (November 2016 – March 2018)

- **Phase I Survey for 28730 Grayfox, Malibu, California, Los Angeles County, CA (with Samantha Whittington).** Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. (January 2018 – February 2018)
- **Phase I Survey for 11681 Foothill Boulevard, a multiple-unit residential project in Sylmar, California, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. This project also included a Native American Tribal Cultural Resource Assessment. (November 2017 – February 2018)
- **Phase I Survey for a single family property development along Yerba Buena Road, Ventura County, CA.** Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. (December 2017 – January 2018)
- **Phase I Survey for 34134 Mulholland Highway, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (December 2017 – January 2018)
- **Faunal, Osteological, Archaeological, and Fossil Consultation for Citadel Environmental and Turner-Hunt for the Hollywood Park Development Project (new Rams NFL Stadium).** Osteological and paleontological consultant for Kiewit, Turner, and Citadel for the construction of the new Rams NFL stadium in Ingelwood. Project included discovery and recordation of modern and fossil mammal bones. We were the official on-call cultural/paleo resources team for the Rams Stadium project, being called in to deal with modern faunal and ancient fossil remains found during excavation. We worked closely with the construction team to get an expert on site within 24-hours of the discovery or quicker, with the goal of getting the discovery assessed and the construction team back to work as soon as possible. (December 2016 – January 2018)
- **Phase I Survey for 24600 Thousand Peaks Road, Calabassas, California, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (November 2017 – January 2018)
- **Phase I Survey for 28929 Grayfox, Malibu, California, Los Angeles County, CA.** Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. (November 2017 – January 2018)
- **Manzanita School Phase Ia Survey for a 20.27-acre private school development in Topanga Canyon, California, Los Angeles County, CA.** Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. This project also assessed built environment resources, which included early 1900s buildings, early 1900s water control features, culverts, and bridges, and 1950s landscaping elements (May 2017 – January 2018)

- **Phase I Survey for the 181 to 187 Monterrey Road Condominium Project, a small residential development near South Pasedena, California, Los Angeles County, CA.** P Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. (July 2017 – January 2018)
- **Phase I Survey for for the Agoura Village project, a 7.37-acre Commercial Subdivision in the City of Agoura Hills, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC scoping, and a Phase Ia site survey. The Phase Ia survey was followed by a Phase Ib subsurface survey and an updated site form for a previously known prehistoric cultural resource that includes the entire project area. (October 2016 – December 2017)
- **Phase I survey for 22866 Beckledge Terrace, Malibu, California.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (September 2017 – November 2017)
- **Lynn Road Residentitial Development Project, Construction Monitoring, Newbury Park, CA.** Principal and Project Manager for the surface collection and construction monitoring for this 10-acre residential construction project. (October 2017 – November 2017)
- **Phase II Evaluation of two cultural resources located on the Oakmont project property, City of Agoura Hills, Los Angeles County, CA.** Principal and Project Manager for the evaluation of a prehistoric cultural resource and a 1920s-1980s historic homestead cultural resource. Evaluation tasks included shovel test pits, and a test unit for the prehistoric cultural resource, and detailed mapping and documents research for the historic cultural resource. A combined report for both Oakmont projects was produced for the City. (August 2017 – October 2017)
- **City of Pomona Environmental On-Call (Including Cultural Resources), Los Angeles County, CA.** Envicom successful won inclusion as one of six on-call environmental firms for the City. (October 2014 – October 2017)
- **Phase I Survey for for the Oakmont commercial project, a 5.75-acre development in the City of Agoura Hills, Los Angeles County, CA.** Principal and Project Manager for the completion of NAHC record search, and a Phase Ia site survey. The Phase Ia survey identified two cultural resources; a 1920s historic homestead foundation, and a large prehistoric archaeological site. (August 2017 – October 2017)
- **Phase I Assessment of the West Hills Crest 37-acre Residential Subdivision in West Hills, City of Los Angeles.** Principal and Project Manager for the completion of a record search and project area site survey. A key issue for this project was the record search being positive for a prehistoric cultural resource within the development area. This resource, CA-LAN-1223, was further investigated with 22 shovel test pits, and evaluated as not being a significant cultural resource. (February 2017 – October 2017)
- **Phase I Survey for 15498 LaPeyre Court, a residential development in Moorpark, Ventura County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. Project also included coordination with numerous biology tasks. (August 2017 – September 2017)

- **San Bernardino County Cultural, Historic Architecture, and Paleontology On-Call, San Bernardino, CA.** Envicom successful won inclusion in the limited on-call pool. (October 2014 – Current)
- **Pepperdine University Campus Life Project: Updated Cultural Resources Record Search.** Principal and Project Manager for an updated record search and letter report for the Pepperdine Campus Life housing, facilities, and trail development project. This update was part of an ammended campus-wide EIR (December 2017 – June 2017)
- **Fourth and Hewitt, City of Los Angeles, Los Angeles County, CA.** Principal and Project Manager for a cultural resource record search for the development of a new office building within a commercial urban environment. Project also included a paleontological assessment of the property due to an extensively deep planned parking garage and Native American concerns. Also completed with an Ethnographic Report to meet AB-52 criteria. Another key issue was determining whether a historic built environement assessment was needed. (February 2017 – January 2017)
- **Pepperdine University Campus Life Project: Phase I survey of new Baseball Field development.** Principal and Project Manager for the addition of the campus baseball field as part of the larger Pepperdine Campus Life housing, facilities, and trail development project. (February 2017 – June 2017)
- **Phase I Survey for the Copper Canyon Project, a 5-acre residential development near Santa Clarita, California, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. Also part of the project was the resurvey of two previously recorded cultural resources within the project boundary. (May 2017 – July 2017)
- **Phase Ia Survey for the Oneonta Hillside Drive, a residential development in South Pasadena, Los Angeles County, CA.** Principal and Project Manager for the completion of an SCCIC and NAHC record search, and a site survey. (May 2017 – July 2017)
- **North Canyon Ranch 170-acre Residential Subdivision in Simi Valley, Ventura County, CA.** Principal and Project Manager for the completion of a record search and project area site survey. A key issue for this project was a previously disturbed cultural resource within the project area, the destruction of which needed to be addressed in the final report. (May 2017 – August 2017)
- **Construction Monitoring for Parcel 2058-003-010, Lobo Canyon, Los Angeles County.** Principal and Project Manager for the surface collection and construction monitoring for this single family residential construction project. (July 2015 – August 2016).
- **Phase I Survey for the 12300 Valley Boulevard Hotel, a commercial development in El Monte, Los Angeles, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey for this small residential development. (June 2017 – August 2017)

- **Phase Ia Survey for the Holiday Inn Express Hotel, a commercial development in El Monte, Los Angeles, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey for this small residential development. (July 2017 – August 2017)
- **Arcadia Town Homes MND Phase I Cultural Assessment for a multi-unit residential development in Arcadia, Los Angeles, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey for this multi-unit residential development. (May 2017 – August 2017)
- **Phase I Survey for the 6625 Bradley Road, a residential development in Somis, Ventura County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey for this small residential development. (June 2017 – July 2017)
- **Phase I Survey for 3800 Figueroa, an apartment complex development in Los Angeles, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey for apartment complex development. (June 2017 – August 2017)
- **11172 Santa Paula Road Phase Ia Survey for a 5.5-acre Agricultural property in Ojai, California, Ventura County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (May 2017 – June 2017)
- **6658 Reseda Boulevard, City of Reseda, Los Angeles County, CA.** Principal and Project Manager for a Phase 1 record search for this urban mixed use project. (March 2017 – May 2017)
- **Paradise Valley Development Project Environmental Impact Report and Impact Statement, Riverside County, CA.** Author of the cultural section for this EIR for a housing and mixed use development of over 2200-acres east of Indio, California. Also reviewed original techical documents, and incorporated legal and agency comments. Mitigation measures included the management and monitoring of dozens of cultural resources, sensitive soils, and paleontological resources. (October 2014 – March 2017)
- **Phase I Cultural Resources Survey for Parcel 2058-003-010, Lobo Canyon, Los Angeles County, CA.** Principal and Project Manager for completion of a Phase I and Army Corps of Engineers permit for the project (ACOE, Los Angeles District). Extensive communications and consultation with the ACOE and SHPO. (July 2016 – March 2017)
- **Phase I Survey for a 1.33-acre Mixed-Use development in the City of Northridge at the corner of Nordoff and Darby Streets, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC scoping, and a site survey. This project included a built-environment assessment of existing historic structures (October 2016 – February 2017)
- **Phase I Survey for a 0.5-acre Residential Subdivision in the City of Los Angeles at the end of Crisler Way, Los Angeles County, CA.** Principal and Project Manager for the completion of a record search, NAHC record search request, and a site survey. (October 2016 – February 2017)

- **Deer Lake Residential Development Cultural Monitoring, Porter Ranch, Los Angeles, CA.** Principal and Project Manager for the cultural monitoring of eight cultural resources within the project development boundary. This project includes the writing of a final Monitoring Report. (May 2016 – February 2017)
- **Phase I Survey for a 0.5-acre Mixed Use Development Project on Camarillo Avenue in North Hollywood, Los Angeles County, CA.** Principal and Cultural Project Manager for the completion of a record search, NAHC scoping, and a site survey. This project also included a historic built environment assessment (November 2016 – January 2017)
- **Phase I Survey for a 14-acre Residential Subdivision in Woodland Hills, CA.** Principal and Project Manager for the completion of a record search, NAHC scoping, and a site survey. This project involved consultation with the City of Los Angeles on AB-52 (July 2016 – January 2017)
- **Lynn Road Residentitial Development Project, Newbury Park, CA.** Principal and Project Manager for the Phase Ia and Phase Ib survey of this 10-acre parcel. A large prehistoric Middle-Period seasonal settlement was discovered, which required subsurface testing and extensive mapping of surface hearths, yucca roasters, and dwelling features. Project included public testimony before the Thousand Oaks Planning Commission. (September 2015 – December 2016)
- **Pepperdine University Campus Life Project: Debris Basin Excavation Cultural and Paleontolgoical Resource Monitoring, Los Angeles, CA.** Principal and Project Manager for cultural resource monitoring of Phase I of the Pepperdine Campus Life housing, facilities, and trail development project. (August – October 2016)
- **Trail Construction Monitoring, Conrad N. Hilton Foundation.** Principal and Project Manager for the development of a pedestrian foot trail loop between the Foundation and the nearby "Ridge" professional building, including the excavation of dozens of shovel test pits and a major surface collection of prehistoric artifacts, including trail construction monitoring. (August – September 2016)
- **32640 PCH Phase I Cultural Resource Survey, Santa Monica, CA.** Principal and Project Manager for the Phase I cultural resource assessment of a ravine rehabilitation project between the Pacific Coast Highway and the Pacific Ocean. Included a record search, site survey, and technical report. (May 2015 – June 2016)
- **Conrad N. Hilton Foundation Trail Project Cultural Assessment, Agoura Hills, Los Angeles County, CA.** Project Manager for the Phase 1b survey of a new pedestrian access trail linking off-site office space with the Foundation campus buildings. Project included the excavation of over 30 shovel test pits and the recording of numerous prehistoric features. (May – August 2016)
- **CA-LAN-321 Project Compliance Plans, and Native American and Lead Agency Consultation, Agoura Hills, Los Angeles County, CA.** Tasks included the authoring of a cultural resource Treatment and Data Recovery Plan, a cultural resource Management Plan, and a Curation Plan for all artifacts, as well as the organization of meetings with the Chumash Tribal Groups and the Lead Agency. (April 2015 – June 2016)

- **Canyon Park Homes, Sylmar, Los Angeles County, CA.** Native American Tribal Group consultation and pre-construction monitoring for this 80-acre residential property development, as well as EIR section writing. (February 2015 – March 2016)
- **Oakwood Schools Built Enviroment and Archaeological Assessment, North Hollywood, Los Angeles County, CA.** Principal and Project Manager for the Phase I cultural resource assessment of the project property prior to the construction of a new middle and high school campus within the North Hollywood area. Challenging tasks included Native American ghost writing for the lead agency (City of Los Angeles) and addressing a modern human cremation garden in the report (November 2015 – February 2016)
- **Floral Canyon Residential Development Cultural Resource Survey, North Hollywood, CA.** Principal and Project Manager for this Phase Ia cultural resource survey of an 8-acrea property. The cultural resource parts of the CEQA checklist were also completed. (September – December 2015).
- **Hilton Property Phase 3 Construction Site Phase Ib Cultural Resources Survey, Agoura Hills, Los Angeles County, CA.** Principal and Project manager for this extensive preliminary survey project, including excavation of over 200 shovel test pits and 4 test units to define the boundaries of a prehistoric ceremonial site of over 80-acres in size, used by Chumash Native Americans from 400 A.D. to the late 1700s. Recordation of over 190-features and 11,500 artifacts. Second phase will include data recovery tasks and an ammended Environmental Impact Report. (February 2014 – March 2015)
- **Blessed Theresa Church Construction, City of Winchester, Riverside County, CA.** Cultural consultation including cultural/paleo monitoring issues. (April 2014 – July 2014)
- **Village at Los Carneros, City of Goleta, Santa Barbara County, CA.** Reviewed all previous technical studies and wrote part of the cultural sections of the Environmental Impact Report for this residential house development project. (March 2014 – April 2014)
- **3121 Old Topanga Canyon Road Phase I Survey and Literature Search, City of Calabasas, Los Angles County, CA.** Principal and Project manager for this residential development project, including NAHC letters, literature review, site survey, paleontolgoical survey and literature search, final technical report, and the writing of the cultural resources section of the Environmental Impact Report. (March 2014 – April 2014)

Cultural Division Director, Chambers Group, Inc., Santa Ana, CA
October, 2011 – October 2013
As Cultural Director, I oversaw all existing cultural, paleontological, ethnographic, and built environment projects for Chambers Group. Projects were staged out of seven regional offices located within California and Nevada. I oversaw a permanent staff of 20 individuals and a temporary staff of up to 40 people. I also was responsible for business development and coordination of projects with multi-disciplinary teams, including Biology, Air Quality, SWPPP, and Planning professionals. I reviewed and authored cultural sections of EA, EIR, and EIS documents. I also wrote proposals, oversaw quality control, provided cultural

compliance sections of technical reports, developed agency relationships, wrote technical reports, managed and developed budgets, and oversaw all cultural staff. I performed QA/QC on all documents and ensured that management and mitigation measures were clearly defined and legally-defendable. Yearly Division budget was up to 3-million dollars annually.

Energy Projects:

- **Beacon Solar, Hecate Energy and LADWP, Kern County, CA.** Business Developer for the archaeology and biological monitoring, pre-construction surveys, and desert totoise fence monitoring for this large, 2000-acre solar project for the Los Angeles Department of Water and Power. (July – October 2013).
- **Q-Cells Solar Survey, Palm Springs, Riverside County, CA.** Principal and Project Manager for a cultural survey and record search of 36-acres north of Palm Springs for solar development. (October 2013 – October 2013)
- **Pacific Gas and Electric NERC Support Monitoring, sub to URS, Northern and Central California.** Principal and Project Manager for this 4-year project in support of the national NERC power pole reliablity project for PG&E. Involves cultural, biological, and paleontological monitoring and field surveys. (October 2013 – October 2013)
- **Gold Bar Transmission Line Survey, McEwen Mining, Eureka County, NV.** Principal and Project Manager for this 2,577-acre cultural survey for the develelopment of a 33-mile transmisstion line to service the Gold Bar Mine in Nevada. Bureau of Land Management was the principal Federal agency. (April 2013 – October 2013).
- **East Kern Wind Resource Area (EKWRA) Power Pole Replacement Project, Environmental Intelligence / Southern California Edison, Kern County, CA.** Principal and Project Manager. This two-year project included cultural resource surveys, the evaluation of numerous cultural sites, and cultural and paleontological monitoring for the construction of over 130-miles of new power poles and fiber optics lines to service Tehachapi Moutain wind farms. (January 2013 – October 2013)
- **Pure Source Power, Victorville, San Bernardino, CA.** Principal and Project Manager for a cultural survey and record search of 140-acres north of Palm Springs for solar development. (September 2013 – October 2013)
- **Dry Ranch Solar Project, Silverado Power, Los Angeles County, CA.** Principal. Dr. Bischoff managed this 64-acre solar project near Lancaster, which included a record search, field survey, and cultural report to meet CEQA compliance. This project included coordination with Southern California Edison for a gen-tie line and telecom attachments. (March - April 2013)
- **Plainview Solar Project, Silverado Power, Los Angeles County, CA.** Principal. Dr. Bischoff managed this 114-acre solar project near Lancaster, which included a record search, field survey, and cultural report to meet CEQA compliance. (April - May 2013)

- **Silverleaf Solar Project, Cultural and Paleontolgoical Survey, Agile Engergy, Imperial County, CA.** Principal and Project Manager. Dr. Bischoff provided general review and quality control for a large solar project south of San Diego. This project involved an over 2,000-acre survey of proposed solar fields and 5-miles of electrical transmission gen-tie lines. The bureau of Land Management was the principal Federal agency. (November 2011 - July 2012)
- **Desert Harvest Solar Project, Cultural Resources Survey, eneXco Energy, Riverside County, CA.** Project Manager. Dr. Bischoff was the project manager for the built environment survey of 1,600-acre solar field and 12-miles of electrical transmission gen-tie lines. (November 2011 - June 2012)
- **Silverleaf Solar Project, Built Environment Survey, Agile Engergy, Imperial County, CA.** Project Manager. Project Manager. Dr. Bischoff was the project manager for the built environment survey of 2,000-acre solar field and 5-miles of electrical transmission gen-tie lines. This included the production of a separate technical report for the Bureau of Land Management that included a historic structure inventory, assessment of signficance, and an indirect effects analysis. (November 2011 - July 2012)
- **IVSC2 Solar Project, County of Imperial, Imperial County, CA.** Principal and Project Manager. Dr. Bischoff provided oversight of the 140-acre solar project east of the Salton Sea. This project was notable for the quick response time required to field a survey crew and complete a draft report for the County (Sept-Oct 2012)
- **Desert Harvest Solar Project, Cultural and Paleontological Resource Survey, eneXco Energy, Riverside County, CA.** Principal and Project Manager. Dr. Bischoff provided general review and quality control for a large solar project northeast of Blythe, CA. This project involved an over 1,600-acre survey of proposed solar fields and 12-miles of electrical transmission gen-tie lines. Bureau of Land Management was the principal Federal agency. (November 2011 - July 2012)
- **Desert Harvest Solar Project, Build Environment Survey, eneXco Energy, Riverside County, CA.** Project Manager. Dr. Bischoff was the project manager for the built environment survey of 1,600-acre solar field and 12-miles of electrical transmission gen-tie lines. This included the production of a separate technical report for the Bureau of Land Management that included a historic structure inventory, assessment of signficance, and an indirect effects analysis. (November 2011 - June 2012)

Telecommunication Projects:

- **AT&T Fiber-optics Renewal Project, Evaluations, Mitigations, and Monitoring, AT&T, San Bernardino County, CA.** Cultural Principal and Project Manager. Dr. Bischoff will provide project management, technical writing, and quality control for the cultural and paleontological evaluations, data recoveries, and monitoring efforts for the AT&T fiber renewal project. This project involved the survey of over 90 miles of proposed new fiber-optic line between Barstow and Las Vegas, NV, and the management of over 100-cultural sites. Bureau of Land Management and Mojave National Preserve were the principal Federal agencies. (July 2013 – October)

- **Fiber Node Evaluations, Freedom Communications, Orange County, CA.** Cultural Principal. Dr. Bischoff provided general project management and quality control for the cultural background record searches and surveys for dozens of telecommunication sites throughout the City of Irvine as part of the Freedom Communications site development project. Dozens more sites are expected to be tested in the coming year. (April 2012 – October 2013)
- **San Diego Churches and Public Building Historic Structure Evaluations, DePratti Inc., City of San Diego, CA.** Principal Investigator. Dr. Bischoff acted as Principal and QA/QC manager for this project, which involved the evaluation of dozens of historic structures as part of the DePratti Communication telecommunication attachment project in the City of San Diego. (November 2011 – October 2013)
- **The Plunge Evaluation, DePratti Inc., City of San Diego, San Diego County, CA.** Principal for this historic architecture project involving the structural evaluation and National Register documentation for The Plunge historic salt-water bath house in San Diego. (September 2013 – September 2013)
- **AT&T Fiber-optics Renewal Project, Surveys, Literature Searches, and Technical Studies, AT&T, San Bernardino County, CA.** Cultural Principal and Project Manager. Dr. Bischoff provided general project management and quality control for the cultural, paleontological, and ethnographic surveys, literature searches, and technical studies. This project involved the survey of over 90 miles of proposed new fiber-optic line between Barstow and Las Vegas, NV, and the management of over 100-cultural sites. Bureau of Land Management and Mojave National Preserve were the principal Federal agencies. (April 2012 – July 2013)
- **Digital West Fiber Line Feasibility Study, San Luis Obispo to Los Angeles, Counties of San Luis Obispo, Sanata Barbara, Ventura, and Los Angeles, CA.** Project Manager for this large feasibility study for placing a new fiber line down the US 101 freeway cooridor. Biological, cultural, paleontological, and permitting constraints were all examined. (April 2012 – July 2013)
- **Digital 395 Broadband Stimulus Project, Praxis and California Broadband Corporation, California and Nevada.** Cultural Director. Dr. Bischoff acted as the California report manager of the cultural division, directed fieldwork, and authored management documents and reports. This project involved the new installation of over 650 miles of fiber-optic line across California and Nevada. The programmatic agreement of this complex project included 10 federal, state, and tribal agencies, with another seven acting as interested parties, and the management, evaluation, and monitoring of over 170 cultural sites. NTIAA was the Principal Federal Agency, but also involved twelve other California and Nevada State and Federal agencies and Tribal Groups (November 2011 – April 2012)

Defense Projects:

- **Fort Irwin Cell Tower Geotech Boring Monitoring, Northrop-Grumman and Fort Irwin Army Post, San Bernardino County, CA.** Principal. This project involves the cultural and paleo monitoring of sensitive areas as part of the construction of over 24 new cell tower locations. (October 2013 – October 2013)

- **Edwards Airforce Base Telecommunication Cultural Monitoring, Team Fischel Company, Edwards AFB, Kern County, CA.** Project Manager and Principal for the cultural monitoring of 40-miles of telecommunication trenching on Edwards AFB, including pre-construction meetings and a final monitoring report. (May 2013 – Sept. 2013)
- **Fort Irwin Cell Tower Surveys and Monitoring, Northrop-Grumman and Fort Irwin Army Post, San Bernardino County, CA.** Principal. This project involves the cultural and paleo survey of over 24 new cell tower locations and associated access roads on Fort Irwin, as well as construction phase monitoring. (April 2013 – October 2013)
- **Marine Corps Base, Camp Pendleton, Cultural Resources Consultation, Marine Corps Base, Pendleton, San Diego County, CA.** On-Call Senior Cultural Resources Consultant. Dr. Bischoff provided senior-level cultural resource consultation related to Camp Pendleton's Basewide Utilities Infrastructure Improvements project. He provided consulting on cultural resource management for several waste treatment and utility line systems as part of the Camp's "Grow the Force" initiative. (2011 – October 2013)

Water Projects:

- **Pacoima Spreading Grounds Improvement Project, LACDPW, Los Angeles County, CA.** Cultural Principal. Dr. Bischoff managed the cultural resources record search and CEQA cultural section mitigation measures of an EIR for the improvement of the Pacoima spreading grounds and related canal resources. (April 2013 – October 2013)
- **Devil's Gate Reservoir Sediment Removal and Management Project, LACDPW, Los Angeles County, CA.** Principal of Cultural Resources. This project involved removal of sediment within the Devil's Gate Reservoir area, which required a preliminary cultural survey and record search under CEQA, as well as an EIR. Dr. Bischoff served as the cultural principal for the project and provided a recommended plan for dealing with sedimentary soils vs. native soils, monitoring criteria, and potential discovery situations. Dr. Bischoff helped write Environmental Impact Report sections, and worked with the Gabrieleno Tribal Group in the protection of archaeological and tribal cultural resources. (2011 – October 2013)
- **Peck Road Spreading Basin Improvement Project, LACDPW, Los Angeles County, CA.** Cultural Principal. Dr. Bischoff managed the cultural resources record searches, field survey, paleontological survey, and CEQA cultural section mitigation measures of an MND for the improvement of the Peck Road Spreading Basin, including a related new water discharge pipe. (June 2013 – September 2013)
- **Marina Del Rey Waterline Replacement Project Cultural Monitoring, LACDPW, Los Angeles County, CA.** Cultural Principal. This project with the Los Angeles Department of Public Works involved the cultural monitoring for the Marina Del Rey 18-inch Waterline Replacement. Chambers Group also provided a qualified archaeological monitor at the project site during excavation activities during construction. (March - May 2013)

- **Dieguto Wetlands Restoration Monitoring, Southern California Edison, Del Mar, San Diego County, CA.** Principal Investigator and Project Manager. This project involved the extensive rehabilitation of Southern California Edison property as part of the Dieguto Wetlands Restoration project. (April 2012 - January 2013)
- **Live Oaks Spreading Grounds Project, LACDPW, Los Angeles County, CA.** Cultural Principal. Dr. Bischoff managed the cultural resources record search and site visit for this public works project. (April 2013 – October 2013)
- **Los Penasquitos Wetlands Monitoring, AMEC, Del Mar, San Diego County, CA.** Principal Investigator. Dr. Bischoff managed the monitoring tasks, budgets, and professional standards for this project near the City of Del Mar as part of the Torrey Pines State Nature Reserve restoration. (October - December 2012)
- **San Gorgonio Creek Water Recharge Basin Construction Monitoring, Beaumont Cherry Valley Water District, Cherry Valley, Riverside County, CA.** Principal and Project Manager. This project involved paleontological and archaeological construction monitoring during construction, including emergency evaluation and monitoring when early 19Th Century structures and materials were unexpectedly encountered during earth moving. (February 2012 – April 2012)
- **Penmar Golf Course Water Quality Improvement Project, Pacific Hydrotech and City of Santa Monica, Santa Monica, CA.** Principal Investigator. Dr. Bischoff managed QA/QC review, budgets, and professional standards for the project in the City of Venice. Penmar was a multi-year waterline and tank improvement project in which evidence of ethnic Japanese barrios and fossil Pleistocene animal bones were discovered. (November 2011 - November 2012)
- **Oxford Retention Basin Flood Protection Project, LACDPW, Los Angeles County, CA.** Principal and Project Manager. The Oxford Basin in Marina Del Rey was receiving enhancement, and Dr. Bischoff managed the completion of the cultural survey, literature review, and construction monitoring for the project. (2011 - 2012)

Public Works Projects:

- **Veterans Administration, VISN 21 On-Call, Western States, Teamed with KAL Architectes.** This project will provide cultural and biological technical services for Veterans Administration projects from October 2013 to October 2018. (October 2013 – October 2013)
- **Historic Structure Evaluations for Statewide Weatherization Efforts, sub to ICF for the State of California, All Counties, CA.** Project Manager and Principal. This project involves meeting NEPA compliance for low-income subsidized weatherization efforts throughout the State of California. Hundreds of structures will be evaluated as part of this project by a Chambers Architectural Historian using a abbreviated format. (November 2011 to October 2013)
- **CEQA Services for Improvements to Polytechnic and Wilson High Schools, LBUSD, City of Long Beach, CA.** Cultural Principal. Dr. Bischoff provided oversight and incorporation of the historic architecture technical reports into the project CEQA documents. (June 2013 – August 2013)

- **Mill Creek Crew Room Cultural Monitoring, Angeles National Forest (ANF), Los Angeles County, CA.** The County of Los Angeles Department of Public Works proposed to replace the crew room building within the Angeles Forest Mill Creek Summit Maintenance Yard facility. This CEQA/NHPA project involved the preparation of a treatment and discovery plan document, ARPA permitting, constant consultation with the ANF, construction monitoring, and a final monitoring report. (April – July 2013)
- **Review of Technical Report and CEQA Documents Relating to the Proposed Demolition of Santa Ana Public Building #16, City of Santa Ana, Santa Ana, CA.** Principal. This project involved the review of technical documents, mitigation measures, and CEQA documents relating to the demolition of a 1950s public building in the City of Santa Ana. (May 2013 – July 2013)
- **Roosevelt School, LBUSD, City of Long Beach, CA.** Cultural Principal. Dr. Bischoff provided oversight, authorship, and counsel on the EIR for the demolition of the Roosevelt Elementary School in Long Beach. This proved to be a complex project, involving an historic built environment resource evaluation and mitigation plan, legal investigation, and extensive responses to public comments. This process resulted in a HABS/HAER mitigation project. (November 2011 - June 2012)

Transportation Projects:

- **Foothill Toll Road Cultural and Paleontological Monitoring, Ghiradelli and Associates, Orange County, CA.** Principal and Project Manager for cultural monitoring related to the upgrade of all tollroad payment stations in Orange County. (October 2013 – October 2013)
- **9th Street Extension Historic Structure Inventory and Evaluation, City of Holtville, Imperial County, CA.** Principal and Project Manager. Dr. Bischoff managed and provided QA/QC for this project involving a Caltrans inventory of project APE historic built environment resources, and the historic evaluation of a canal feature. Final deliverables included a Historic Resources Evaluation Report and a Historic Property Survey Report to CALTRANS standards. (June 2013 – August 2013)
- **Francisquito Bridges Replacement (3-Total), LADWP/CALTRANS, Los Angeles County, CA.** Principal. Dr. Bischoff managed and oversaw the completion of this project in the Angeles Forest. This project involved the replacement of three existing bridges on San Francisquito Canyon Road over San Francisquito Canyon Creek. The proposed improvement project involved widening the two lane bridges, improvement of approachment roadway, and the placement and installation of retaining walls, concrete barriers with tubular-steel handrails, and metal beam guardrails. (2011 – September 2013)
- **Murrieta Whitewood Road Extension, City of Murrieta, Riverside County, CA.** Principal and Project Manager. This road extension project involved a cultural resource survey and records search, a paleontolgoical field study, and native american Consultation due to the historic use of the nearby Murrieta Hot Springs by local Native Americans. (April – June 2012)

- **Nuevo Road/ I-215 Interchange Improvement in the City of Perris, CALTRANS, Riverside County, CA.** Principal. Dr. Bischoff managed and provided QA/QC for this project involving street widening and additional improvements at the Nuevo Road/ I-215 interchange. Final deliverables included a record search and a survey report to CALTRANS standards. (2011 – 2012)
- **Soledad Canyon Road Bridge Replacement Project, LACDPW, Los Angeles County, CA.** Principal. LADPW intends to replace a bridge on Soledad Canyon Road. Chambers Group completed a record search and NAHC records review for potential archaeological resources. This project is on-going and may in the future involve further work, including cultural and historic structure surveys and evaluation. (2011 – 2012)

Development Projects:

- **Grove Lumber Facility Cultural and Paleontological Technical Studies, Thatcher Engineering, City of Perris, Riverside County, CA.** Principal for the cultural technical studies for this development project, including cultural and paleontological record searches, NAHC letters, and a cultural study (October 2013 – October 2013)
- **Newport Beach Yacht Club Evaluation, Community Development Department, City of Newport Beach, Orange County, CA.** Principal for this historic architecture project involving the built environment evaluation of the Newport Beach Yacht House. (October 2013 – October 2013)
- **Blossom Plaza Historic Structure Evaluation, China Town, City of Los Angeles, CA.** Principal for this historic architecture project involving the updating of technical reports and a standing structure evaluation. (July 2013 – September 2013)
- **Moreno Valley Residential Building Evaluation, City of Moreno Valley, Riverside, CA.** Principal for the architectural assessment of the J. Langdon Ranch located at 11761 Davis Street, in the city of Moreno Valley, Riverside County, California. (April 2013)
- **Indian Wells Tennis Court Development Project, Indian Wells, Riverside County, CA.** Principal Provided technical review of the planning documents cultural section, as well as oversaw Native American Heritage Commission communication for this project to enhance the Indian Wells Tennis Garden complex. (December 2012 – April 2013)
- **Scripps Hospital Paleontological and Archaeological Monitoring, Worley-Parsons, City of Encinitas, CA.** Principal Investigator. Dr. Bischoff managed QA/QC review, budgets, and professional standards for the cultural and paleontological monitoring of this large development project. (2011 - 2013)

Mining Projects:

- **Mining Projects, Quality Control and Management Support – Ormat, Enviroscientists, Newmont, McEwen, Midway, Reno, Nevada.** Dr. Bischoff was directly involved with the management of dozens of mining-related surveys, monitoring, and site evaluation projects conducted from the Chambers Group

Reno, Nevada, office. Bureau of Land Management was the principal Federal agency. (2011 – October 2013)

- **Ruth Mine Reclamation Cultural Survey and Evaluation, ERRG and USACE, Inyo County, CA.** Principal. Dr. Bischoff oversaw the Intensive Phase I mapping of the Ruth Mine site, evaluation of several site features, and negotiations with the Army Corps of Engineers and the BLM. Extensive mapping of Mine features and structures were completed as part of this project. Bureau of Land Management was the principal Federal agency. (2011 - 2012)

Staff Archaeologist, Marine Corps Base Camp Pendleton, San Diego County, CA. June 2011 – Oct. 2011

Dr. Bischoff was a staff cultural resources specialist at Camp Pendleton, and worked on NEPA, Section 106, and Section 110 compliance requirements for resource management and Base construction projects. Dr. Bischoff was responsible for writing, developing, and executing cultural sections of CATEXs, EAs, EISs, and organized/reviewed NHPA Section 106 and Section 110 reports. Types of projects included archaeological surveys and evaluations, historic research, and monitoring projects. He also performed historic structure surveys and evaluations, and wrote and prepared appropriate documentation to meet construction project cultural and environmental compliance requirements.

Principle Investigator and Project Manager, **Pacific Legacy, Inc**., **Lancaster, CA.Sept. 2009 – June 2011**

While at Pacific Legacy, I acted as the cultural resource principal and project manager for various Pacific Legacy clients, including the San Jose Water District, Aera Energy, Berry Petroleum, Quad Knopf, AT&T, and **Southern California Edison**. My primary responsibility was the oversight of subcontracted services to Southern California Edison's Tehachapi Renewable Transmission Project (TRTP). The TRTP is one of the largest green-energy projects in the U.S. and involves the wreck-out and new construction of hundreds of transmission lines and power facilities to carry electricity from wind and solar generation sites to the greater Los Angeles area. During this time, I built the Lancaster office from a staff of two, to a fully-functioning regional office with a permanent staff of eight people and temporary staff of several dozen.

Major Projects:

- **Tehachapi Renewable Transmission Project (TRTP), Southern California Edison, Kern, Los Angeles, and San Bernardino Counties, CA.** Principal and Project Manager. Dr. Bischoff was responsible for all office and field operations that ensured the successful inventory and management of cultural resources related to this 300-mile transmission line project, including the management of standing historical structures and paleontological resources. He managed an annual budget in excess of $4 million, a staff of up to 40 persons, wrote compliance documents (Programmatic Agreement Appendices, ARPA permits, Project Agency Yearly Reports, and Management Plans), and managed hazmat situations. Dr. Bischoff completed over 150 individual projects in southern California including survey, evaluation, mitigation, and resource monitoring. He wrote individual budgets for project-specific tasks, as well as construction-related administrative tasks, each with different scopes of work and budget amounts. He reconciled all budgets on a

monthly basis and coordinated them with the master construction schedule. Dr. Bischoff managed field compliance with NEPA, with TRTP-specific environmental agency agreements, and with the cultural section of the project EIR/EIS and Programmatic Agreement. He also met legal and agency guidelines for Section 106 of NHPA, CEQA, NAGPRA, and TRTP Cultural Resource Management Plan. The Angeles National Forest was the lead Federal Agency, but the CPUC and other Federal and California State Agencies were also involved. (November 2009 - June 2011)

- **East Kern Wind Resource Area (EKWRA) Power Pole Replacement Project, Southern California Edison, Kern County, CA.** Principal and Project Manager. Dr. Bischoff managed original technical studies for a project designed to replace hundreds of power poles in the Tehachapi Mountains area in support of new wind farm construction. He conducted large area surveys, some on BLM properties, and developed a management plan for dozens of archaeological sites. Bureau of Land Management was the principal Federal agency. (February 2010 - June 2011)
- **San Jose Salt Barge HAER Documentation Project, USACE and Santa Clara Valley Water District, City of San Jose, CA.** Principal. Dr. Bischoff consulted on the excavation and evaluation of a shallow-water shipwreck discovered during a wetlands rehabilitation project. This project involved USACE, San Francisco District as lead agency and the Water District as client. (January – February 2011)
- **Operations and Maintenance Contract, Southern California Edison. Southern California.** I acted as the Principal for all work orders issued to our office under the O/M contract. A major task under this contract was the response to the Crown Fire in 2010. I worked directly with SCE during and immediately after the fire to evaluate and protect cultural resources. (Jan 2010 - June 2011)
- **Crown Fire Survey and Cultural Site Update, Southern California Edison, Los Angeles County, CA.** Project Manager. Dr. Bischoff led the cultural response to the Crown Fire, which included surveying and updating known cultural sites as part of the SCE post-fire power pole and access road inspection. (August – Sept. 2010)

Principal and Office Manager, Marushia Consultants, Inc. Okemos, MI.
June 2003 – Sept. 2009

Marushia Consultants was a Cultural Resource Management Company. In this position I bid on projects, managed existing accounts, was responsible for office and project budgets, and oversaw marketing and business development. During this time, I was part of the legal contract team, and represented the company with the public and with agencies. I also managed project NEPA/NRHP compliance, wrote compliance documents, conducted historic structure analysis, dealt with hazmat situations, engaged in industrial sites mitigation, and was a team member on public parks and museum development projects. Major clients included the Detroit District Corps of Engineers, several engineering companies, the City of Kansas City (MO), the Maumee (OH) Wolcott Museum, the Port Authority of Kansas City (MO), the Indiana Department of Transportation, the Carroll County (IN) Wabash and Erie Canal Association, and the National Park Service. During

this time, I developed relationships with new clients in several Midwest states (OH, IN, MO) and retained clients that I had previously worked with under other companies.

Major Projects:

- **Carroll County Wabash River Bridge Replacement, Beam, Longest, and Neff Engineering, Carroll County, IN.** Principal, Project Manager. Dr. Bischoff evaluated and tested several historic archaeology sites and acted as a consultant to the County historical society on a Memorandum of Agreement. Due to the important and undisturbed nature of the sites encountered, the bridge was later relocated away from all resources. (2005)
- **Park Expansion and Surveying of Carroll County Park and Trail Lands, Wabash and Erie Canal Association and City of Delphi, Carroll County, IN.** Principal, Project Manager. Over the course of 10 years, Dr. Bischoff managed all Section 106 and cultural resource management plan writing, park and trail survey and site evaluation, and construction monitoring for the large park and trail (20+ miles) project in central Indiana. He developed a master Management and Interpretive Plan, represented the project with the State of Indiana, and consulted on the construction of a multi-million dollar interpretive center. (1993 - 2005)
- **Wolcott Museum and Grounds, Park and Public Area Development, Maumee, OH.** Principal and Project Manager. This project involved the use of archaeology survey and historic research to enhance knowledge of the park archaeological resources and to aid in overall interpretation of the landscape. (2004-2005)
- **Soo Locks National Landmark Writing and Building Inventory, Detroit District USACE and National Park Service, Sault Ste. Marie, MI**. Principal and Project Manager. Dr. Bischoff was responsible for completing all National Landmark forms, conducting historic research and writing, and compiling the inventory and photography of over 100 buildings and structures at the Soo Locks facility at Sault Ste. Marie. This project was a joint undertaking by USACE, Detroit District and the National Park Service. (2003-2005)
- **Development of the Town of Kansas Archaeological Park, Kansas City (MO).** Dr. Bischoff was part of the City of Kansas City Town of Kansas park development team, acting as the principal for cultural and historical resources. Preliminary work had begun on the plan for developing the park and for the purchasing and renovation of several historic buildings when the project was closed by the City due a reallocation of funds. Much of the completed work involved creating a land-use history for the entire 8-block park as a preliminary step for creating a park master plan. (2003-2004)
- **Missouri River Redundant Trunk Water Line, Black and Veatch and City of Kansas City, Missouri, Kansas City, Missouri.** Principal, Project Manager. Dr. Bischoff performed preliminary work for a NEPA/NRHP EIS, including the evaluation of alternative pipeline locations. Preliminary writing and planning was initiated, but the project was cancelled by the client due to cost issues. (March 2003-April 2004)
- **National Register Nominations for Multiple Lime Kilns Near Delphi, Indiana, Wabash and Erie Canal Association and City, Carroll County, IN.** Principal

and Project Manager. Completed paperwork for the nomination of multiple historic 19th Century lime kilns to the National Register of Historic Places. Information used to enhance public interpretation of local archaeological resources, trails, and park lands. (2003-2004)

Principal and Office Manager, Landmark Environmental Services. Sheridan, Indiana
Oct. 2001 – June 2003
Landmark Environmental Services was a Cultural Resource Management company. I was office manager in Michigan and tracked project budgets in excess of $300,000 dollars. He also bid on projects and marketed to new clients, successfully adding new clients to the company in several states (OH, TN, MO) and retaining relationships with clients I had previously worked with. I acted as part of federal and state agency teams as projects demanded. I also managed NEPA/NRHP compliance, historic structure analysis, rail relocation and industrial site projects, and public parks and museum development. Major clients included the Detroit District Corps of Engineers, the Indiana Department of Transportation, several engineering companies, the City of Erin (TN), the City of Kansas City (MO), the Maumee (OH) Wolcott Museum, the Port Authority of Kansas City (MO), Federal Highways, the Tennessee State Historic Preservation Office, the Carroll County (IN) Wabash and Erie Canal Association, the City of Lafayette (IN), and the National Park Service.

Major Projects:

- **US-231 Bypass Historic Structure Survey, INDOT, Dubois County, IN.** Principal, Project Manager. Dr. Bischoff identified historic landscapes and structures eligbile for the National Register and worked with the IN SHPO and INDOT offices on recommendations for route selection based on findings. This large historic structure survey project involved the evaluation of hundreds of historic structures along several alternative routes for the US-231 bypass in southern Indiana, and the defining of a number of original farming landscapes dating back to the early 19th Century German immigration period in the area. This project became one of the first projects in the state to have a historic landscape element, and was used in part by INDOT to define the criteria for how to establish and define a historic landscape. (2002-2003)
- **National Register Nomination of Standing Stone Lime Kilns Near Erin, Project for the State of Tennessee, Nashville, Tennessee.** Principal and Project Manager. Completed paperwork for the nomination of multiple historic 19th Century lime kilns to the National Register of Historic Places. Information used to enhance public interpretation of local archaeological resources, trails, and park lands. (2002-2003)
- **Lafayette, Indiana, Rail Relocation, City of Lafayette, Tippecanoe County, IN.** Principal, Project Manager. Dr. Bischoff was a field director on the original Wabash and Erie Canal Lafayette Wharf (used 1840-1880) mitigation, which took place in 1993-1994. This project involved the uncovering of 9-city blocks of original canal wharfing during the relocation of railraod tracks through Lafayette, Indiana to below street level. Due to the bankruptcy of the original contracting

company, Dr. Bischoff was brought back onto the project to managed artifact analysis and report. He directed the analysis of thousands of nineteenth century artifacts and was the primary author on the final report document. (2002-2003)

- **Consultant for the Tennessee State Historic Preservation Office.** I provided consultation services for the development of grant projects in under-represented counties in Tennessee. (2002-2003)
- **Interstate-69 Extension, INDOT, KYTC, and FHA, Southern IN and Northern KY.** Principal. Dr. Bischoff was a member of the technical study cultural team for the extension of I-69 to the Ohio River in Indiana, and into Northern Kentucky. He worked with the Indiana DOT and Federal Highways on the selection of routes that would later be surveyed (2002). To this end, early forms of geographic cultural site modeling were used in the attempt to predict high vs. low cultural site density areas. (2002)
- **Town of Kansas Archaeological Park and Riverfront Access Pedestrian Bridge, City of Kansas City, MO.** Principal, Project Manager. Dr. Bischoff was responsible for all survey, evaluation, and monitoring activites related to this project. He was a team member on the Memorandum Of Agreement development and provided public testimony as needed. The final MOA was among the City, the Port Authority of Kansas City (MO), the Missouri SHPO, and other local parties. (2001-2003)
- **Soo Locks National Register and National Landmark Writing and Building Inventory, Detroit District USACE and National Park Service, Sault Ste. Marie, MI**. Principal and Project Manager. Dr. Bischoff was responsible for completing all National Register and National Landmark forms, conducting historic research and writing, and compiling the inventory and photography of over 100 buildings and structures at the Soo Locks facility at Sault Ste. Marie. This project was a joint undertaking by USACE, Detroit District and the National Park Service. (2001-2003)

Principal and Office Manager, Hemisphere Field Services. Minneapolis, Minnesota. June 1999 – Sept. 2001

Hemisphere Field Services was a Cultural Resource Management company. I was the Michigan office manager, acted as the Principal on several successful bids, and oversaw several project budgets in excess of $600,000 dollars. I also represented the company with the public and with agencies, and provided public testimony. I managed NEPA/NRHP compliance, wrote compliance documents, conducted historic structure analysis, dealt with hazmat situations, engaged in industrial sites mitigation, and managed public parks and museum development. Clients included the Detroit District Corps of Engineers, the Upper Mississippi Corps of Engineers, the Minnesota Department of Military Affairs, the Minneapolis Community Development Agency, several engineering companies, the City of Kansas City (MO), the Carroll County (IN) Wabash and Erie Canal Association. During this time, I worked with the SHPOs of MI, WI, ND, MN, and IN, was part of the development teams for Environmental Impact Statements in several states, was a co-author on Memorandum of Agreements (MO, IN), and developed marketing strategies in several states for Hemisphere Field Services that resulted in a number of new clients for the company.

Major Projects:

- **Soo Locks National Register and National Landmark Writing and Building Inventory, Detroit District USACE and National Park Service, Sault Ste. Marie, MI**. Principal and Project Manager. Dr. Bischoff was responsible for completing all National Landmark forms, conducting historic research and writing, and compiling the inventory and photography of over 100 buildings and structures at the Soo Locks facility at Sault Ste. Marie. This project was a joint undertaking by USACE, Detroit District and the National Park Service. (2000-2001)
- **Service Contract: USACE, Detroit District, MI.** Principal. Dr. Bischoff worked with USACE, Detroit District for various Michigan, Wisconsin, and Minnesota historic and archaeological projects for this four-year contract. He managed various projects, conducted historic structure surveys and evaluations, worked on HABS/HAER documentation, and coordinated cultural resource surveys, National Landmark evaluations, and environmental impact statements. The largest individual projects completed included the preparation of an EIS for the Fox River Improvements in Wisconsin, National Register building inventory and historical research writing for the Soo Locks in northern Michigan, and HABS/HAER recordation of historic rail yard buildings on COE properties Minnesota. (2000-2001)
- **Guthrie Theater Location Survey and Cultural Sites Evaluation, City of Minneapolis, MN.** Principal, Project Manager. Dr. Bischoff was involved with the creation of a land-use history for the project area, including potential hazmat locations, and the mechanical surveying of several city blocks prior to construction with this large construction project. Dr. Bischoff conducted WEAP hazmat training due to the existence of a collapsed historic train depot, repair house, and yard facilities underneath the site location. (2000-2001)
- **Town of Kansas Archaeological Park and Riverfront Access Pedestrian Bridge, City of Kansas City, MO.** Principal, Project Manager. Dr. Bischoff was responsible for all survey, evaluation, and monitoring activites related to this project. He was a team member on the Memorandum Of Agreement development and provided public testimony as needed. The final MOA was among the City, the Port Authority of Kansas City (MO), the Missouri SHPO, and other local parties. (1999-2001)
- **Survey and Evaluation of Two historic Properties, Minneapolis Community Development Agency, Minneapolis, MN.** Principal and Project Manager. These projects involved re-use of urban areas for the city. I was involved with site survey and evaluation. (2000-2001)
- **Fort Ripley Management Plan, Fort Ripley Army Post, MN.** Principal, Project Manager. Dr. Bischoff was responsible for archaeological testing, historic research, and the development of a management plan for Fort Ripley as part of the Army National Guard's ongoing Section 106 and Section 110 obligations. (2000-2001)
- **Baraboo Badger Army Ammunition Plant Decommissioning, GSA, WI.** Principal, Project Manager. Dr. Bischoff managed all work related to this project, including the enforcement of the project's Memorandum of Agreement. This project involved archaeological testing of several hundred acres, recording of

dozens of historic farmsteads, and evaluation of all archaeological sites in preparation for the final dispersal of Army lands to historic groups, tribes, and the State of Wisconsin. (2000-2001)

- **Levee Improvements, Grand Forks, North Dakota, St. Paul District Corps of Engineers.** This project involved archaeological survey and testing of several areas scheduled to have levee improvements within the city of Grand Forks. (2000-2001)

Project Manager, Michigan State University. East Lansing, Michigan.
1993 – 1999

I conducted research projects at Michigan State and also managed cultural resource management (CRM) projects in several states, bid on projects, managed project budgets, conducted limited marketing in Indiana and Michigan, and organized public interactions on projects.

Major Projects:

- **Clinton Township Canal Park and Trails Development, Clinton Township, MI.** Principal and Project Manager. Dr. Bischoff conducted several years of archaeological and documentary research in locating park and canal features. This information was later incorporated into trail development and kiosk historical information. (1997-1999)
- State of Indiana Grant for surveying historic transportation-related sites in Central Indiana.
- Three-year analysis and reporting of Southwest artifacts from the Puebla de la Mesa, New Mexico.
- Analysis and reporting of skeletal collection for NAGPRA Compliance, Tippecanoe County Historical Association, West Lafayette, Indiana.
- Analysis of skeletal collection for NAGPRA Compliance, Michigan State University Museum, East Lansing, MI.
- Initial evaluation of the Wabash and Erie Canal unexpected discovery: The Lafayette (IN) Rail Relocation Project and HTNB engineering. I was the original project manager for the City until contract negotiations were solidified between the principals and Great Lakes Research (Williamston, MI), at which time I became a crew chief and project historian. I produced a land-use history for the project, as well as historical background. This project involved WEAP hazmat training due to the existence historic fuel oil plants and other contaminants.

References

References and sample reports are available upon request.

Wayne Bischoff: Biography

As Cultural Resources Director at Envicom, I complete all cultural resource, archaeological paleontologist, Native American consultation, and built environment projects for Envicom, and author cultural resource sections of permitting and planning documents. Project area includes Ventura, Santa Barbara, San Luis Obispo, Kern, Los Angles, Riverside, and San Bernardino Counties. I oversee cultural staff and work with planning teams on larger projects. I am also responsible for business development and project management tasks. I write proposals, oversee quality control, develop agency relationships, write technical reports, and manage and develop budgets.

I have over 20 years of experience managing cultural resource compliance projects, mostly in California, but also throughout the Midwest. Project areas include Section 106 and 110 of the National Historic Preservation Act (NHPA), the California Environmental Quality Act (CEQA), the National Environmental Protection Act (NEPA) and the Native American Graves Protection Act (NAGPRA). I have managed up to 60 professional staff at any given time, and often have multiple projects ongoing at the same time. Market areas include: solar, wind, geothermal, and transmission line projects; defense, public works, education, residential and commercial development; telecommunication, mining, transportation, and water resources; and storm and sewer lines, industrial sites, and railroads.

I have extensive experience working with multiple federal, state and local agencies, including staff in the Counties of Los Angeles, San Bernardino, Riverside, Ventura, Imperial, Kern, Santa Clara, Inyo, Mono, Santa Barbara, San Diego, and Orange. I have also coordinated Native American Tribal consultation with most Central and Southern Californian Tribal Groups.

APPENDIX E

Geotechnical Investigation and Engineering Geologic Review

SOUTHWEST
Inspection & Testing, Inc.
Continuous Inspection & Materials Testing
441 Commercial Way, La Habra, CA 90631-6168
(562) 941-2990 • (714) 526-8441
FAX (562) 946-0026

GEOTECHNICAL INVESTIGATION AND ENGINEERING GEOLOGIC REVIEW COMPREHENSIVE MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL 312 N. RECORD AVENUE, LOS ANGELES, CA 90063

Prepared for:

LOS ANGELES UNIFIED SCHOOL DISTRICT

Facilities Services Division, Maintenance & Operations
333 S. Beaudry Avenue, 22nd Floor
Los Angeles, CA 90017

July 5, 2017

Southwest #170144

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FAX (562) 946-0026

July 5, 2017
Southwest #170144

Peyman Soroosh Moghadam, SE
Supervising Structural Engineer
Los Angeles Unified School District
Facilities Services Division, Maintenance & Operations
333 S. Beaudry Avenue, 22nd Floor
Los Angeles, CA 90017

Subject: **Geotechnical Investigation and Engineering Geologic Review**
Comprehensive Modernizations at Belvedere Middle School
312 N. Record Avenue, Los Angeles, CA 90063

Dear Mr. Moghadam:

In accordance with our proposal, dated March 14, 2017, which was authorized by Los Angeles Unified School District, Southwest Inspection & Testing, Inc. (Southwest) has prepared this geotechnical investigation and engineering geologic review report for the proposed comprehensive modernizations within the existing campus of Belvedere Middle School, located at 312 N. Record Avenue in the City of Los Angeles, California. Purposes of this study were to investigate the subsurface geologic profile at the project site; to assess geological, seismic hazards and their potential impact for the proposed developments; and to provide relevant geotechnical design parameters and grading recommendations to aid in the design and construction of this modernization project.

The school site is located to the east side of the 710 Freeway and to the north of the 60 Freeway, in the City of Los Angeles, California. It is within a developed urban area. Developments surrounding the school campus are primarily residential. Topography within the school campus and its surroundings is relatively flat to gently sloping.

As of the date of this report, no site plan showing the specific modernization scheme was available to us. Based on an assessment of 10 facilities-based data sets that express a school's physical condition, the subject school campus has been selected by the District as a candidate site that demonstrates critical physical conditions that may pose a health and safety risk and are in need of a comprehensive modernization project.

The proposed comprehensive modernization projects will address the most critical physical conditions and essential safety issues. This will be achieved by modernizing, repairing, reconfiguring and/or replacing existing buildings, constructing new buildings, and upgrading deteriorated and outdated site infrastructure. These projects will address seismic vulnerabilities; failing or broken building and site systems, infrastructure, and components; barriers to program accessibility; deteriorated exterior conditions; and interior classroom spaces.

Subsurface geologic profiles across the subject school campus consisted of a layer of fill soils, depths varying from 2 to 5 feet, which was followed by native old alluvial soils (Qoa) up to the maximum explored depth of 50 feet. Fill soils were silty to silty, clayey fine to medium sand. Alluvial soils comprised of mostly silty to silty, clayey sand, and sandy silts with fine to medium sand grains, variable amount of fine contents. Layers of fine to coarse sand with few to less amount of silts were encountered within depths 15 to 25 feet.

Subsurface soils were found to be medium dense to very dense, stiff to hard - gradually denser, stiffer with depth. These soils will provide adequate bearing, lateral support for foundations for the proposed modernizations provided the grading recommendations and geotechnical parameters in this report are adhered to during design and construction.

This project site is not designated within any geologic (e.g., slope creep, slippage, etc.) and seismologic hazard (e.g., liquefaction, landslide) zones. Based on our findings, there are no geotechnical constraints that would adversely impact design and construction of the proposed modernizations of the existing school building and construction of any new buildings at the subject school campus.

If there are any questions regarding this report, please do not hesitate to contact this office. We appreciate this opportunity of service.

Respectfully submitted,
SOUTHWEST INSPECTION & TESTING, INC.





Zafar Ahmed, GE
Geotechnical Engineer

Fred Aflakian, CEG
Engineering Geologist

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1.0 INTRODUCTION

1.1 Purpose and Scope

This report presents the findings, conclusions and recommendations from our geotechnical investigation and engineering geologic review for the proposed modernizations within the existing Belvedere Middle School campus, located at 312 N. Record Avenue in the City of Los Angeles, California. Purposes of this study were to evaluate subsurface soil conditions across the project area; assess geological and seismological hazards of the site; and provide geotechnical design parameters and grading recommendations for the proposed developments. In preparation of this report, we conducted the following scope of work:

- Review of published and unpublished reports and maps pertinent to seismic hazards, local and regional geology within and adjacent to the site that could impact the development.
- Perform a site reconnaissance to locate and mark the exploratory boring locations and conduct GPR (Ground Penetrating Radar) scanning for underground utilities at the target locations. DigAlert (Underground Services Alert of Southern California) was notified about the marked out locations for utility clearance.
- Conduct subsurface exploration consisting of fifteen (15) bore holes within the school campus. The boreholes were drilled to depths varying from 10 to 50 feet below the existing grade utilizing both a truck mounted drilling rig and a 6-inch diameter hand auger with drive sampler. During field exploration, subsurface geologic profile were logged; bulk and relatively undisturbed ring soil samples were collected at selected depth intervals.
- Conduct necessary laboratory tests of collected soil samples in order to characterize the subsurface soil profile and obtain relevant engineering properties for this project.
- Perform geotechnical evaluations and engineering analyses of the collected data and the laboratory test results. Recommendations for earthwork, seismic design parameters, various foundation design, structure's settlement criteria (static and dynamic), lateral earth pressures, site soil's corrosivity evaluations and mitigation measures, and other relevant geotechnical design parameters for the proposed elevator shaft structure, as presented in this report, are based on the engineering evaluations and analyses.
- Preparation of this report summarizing our findings, conclusions, and

recommendations.

Geotechnical investigation and engineering geologic review for this public school project has been conducted in compliance with the requirements per CGS Note 48 Checklist and the 2016 CBC. This report has been prepared under direct supervision of a California registered Geotechnical Engineer and an Engineering Geologist; both of whom signed and stamped this report.

1.2 Site Description and Proposed Development

Belvedere Middle School site is located at 312 N. Record Avenue, to the east side of the 710 Freeway and to the north of the 60 Freeway, in the City of Los Angeles, California. It is within a developed urban area. Location and topography of this site and the vicinity areas are shown in the attached Figure 1, *Site Location Map*.

The school campus is bounded by E. Cesar Chavez Avenue and San Carlos Street on the north side, Michigan Avenue on the south side, N. Record Avenue on the west side. Eastern portion of the campus is covered with landscaped green and playground area that extends up to residential lots between San Carlos Street and Michigan Avenue. Besides this green area, the majority of the campus is occupied by several school buildings, asphalt paving for parking and playgrounds. School buildings are one- to three-story structures except for a four-story classroom and library building at the northwest corner of the campus. Ground level of this four-story above ground building is used for parking. Developments surrounding the school campus are primarily residential. Topography within the school campus and its surroundings is relatively flat to gently sloping. A layout of the existing school building within the campus is presented in Figure 2, *Site Plan and Field Exploration Map*.

As of the date of this report, no site plan showing the specific modernization scheme was available to us. Based on an assessment of 10 facilities-based datasets that express a school's physical condition, the subject school campus has been selected by the District as a candidate site that demonstrates critical physical conditions that may pose a health and safety risk and is in need of a comprehensive modernization project. The conditions assessed for the District's legacy K-12 school facilities were: Facilities Condition Index (FCI) for buildings, seismic risk, FCI for grounds, core facility size (multi-purpose room/auditorium, library, and food service), play space size, percentage of relocatable classroom buildings, controlled public access point, and site density.

The proposed comprehensive modernization projects will address the most critical physical conditions and essential safety issues. This will be achieved by modernizing, repairing, reconfiguring and/or replacing existing buildings, constructing new buildings, and upgrading deteriorated and outdated site infrastructure. These projects will address seismic vulnerabilities; failing or broken building and site systems, infrastructure, and components; barriers to program accessibility; deteriorated exterior conditions; and interior classroom spaces. These projects will also significantly reduce the District school's reliance on relocatable buildings.

1.3 Field Exploration

Prior to the field exploration, we conducted a site reconnaissance and performed GPR (Ground Penetrating Radar) scanning for underground utilities at the target borehole locations, which were preselected by the District. As a part of due diligence, we also informed DigAlert (Underground Services Alert of Southern California) about the marked out locations for utility clearance.

From April 12th to April 14th of 2017, we conducted subsurface exploration consisting of fifteen (15) exploratory bore holes, B-1 to B-15, across the school campus. Of these, eleven (11) bore holes - B-1, B-3 to B-7, B-10, B-11, B-13 to B-15 - were 8-inch diameter hollow stem auger (HSA) holes, drilled to depths varying from 25 to 50 feet utilizing a truck mounted CME-75 drilling rig, which was equipped with an automatic trip hammer. Due to access limitations for the drilling rig, remaining four (4) holes - B-2, B-8, B-9 and B-12 - were drilled utilizing a 6-inch diameter hand auger. Each of these hand augered holes was drilled to a depth 10 feet below the existing grade. Approximate bore hole locations are shown on Figure 2, *Site Plan and Field Exploration Map*. Drilling rig and crew for HSA bore holes were provided by One Way Drilling, whom we retained for this field investigation. Drilling of hand augered holes was conducted utilizing our in-house crew and equipment.

During drilling for HSA bore holes, bulk, SPT (Standard Penetration Test), and relatively undisturbed ring samples were obtained from selected depth intervals. Bulk samples were taken from shallow depths (upper 5 feet) below the existing grade. Ring samples were obtained utilizing a modified California drive sampler, 2½-inch ID (inside diameter), 3-inch OD (outside diameter), driven 18 inches with a 140 pound hammer dropping 30 inches in general accordance with ASTM Test Method D3550. The SPT samples were taken utilizing a 24-inch long, 1⅜-inch ID, and 2-inch OD split spoon sampler driven 18 inches with a 140-pound hammer dropping 30 inches in accordance with ASTM Test

Method D1586. Number of blow counts to achieve the last 12 inches of penetration for the ring and SPT samples are presented in the field exploration logs in the "blows/foot" column (see Appendix A).

For hand augered borings, bulk and ring soil samples were obtained at selected depth intervals. Ring samples were taken using a modified California drive sampler, 2½-inch inside diameter and 3-inch outside diameter, driven into the subsurface soils at target depths by successive drops of a slide hammer that was attached to the drill rods of the hand auger. Slide hammer weighed 20 pounds, dropped over a height of 18 inches.

Logging and sampling were conducted by a technical staff from our firm. Each of the collected soil samples was inspected and described in general conformance with the Unified Soil Classification System (USCS). Soil descriptions are entered in the field exploration logs (Appendix A). After logging and sampling, the bore holes were backfilled with the excavated soil spoils. Fore bore holes within asphalt and concrete areas, after backfilling with soils surfaces of the holes were patched with rapid set concrete, and dyed black on top to match the asphalt color wherever appropriate. Collected soil samples were properly packaged and transported to our laboratory for further evaluations and tests.

1.4 Laboratory Tests

Laboratory tests were performed on representative samples to verify the field classification of the recovered samples and to determine the geotechnical properties of the subsurface materials. The following tests were performed:

- Field moisture content and dry density (ASTM D2216 and ASTM D7263);
- Percent finer than No. 200 Sieve (ASTM D1140);
- Expansion Index (ASTM D4829);
- Maximum density and optimum moisture content (ASTM D1557);
- Direct Shear (ASTM D3080);
- Consolidation/Collapse potentials (ASTM D2435); and
- Corrosivity suite – Sulfate content, Chloride content, pH and Resistivity (California Test Methods 417, 422, and 643).

Brief descriptions of the laboratory test procedures and test results are presented in Appendix B of this report.

2.0 GEOLOGIC AND GEOTECHNICAL FINDINGS

2.1 Regional Geologic Setting

The subject site lies along the northwestern margin of the Los Angeles Basin at the northern end of the Peninsular Ranges geomorphic province of California. The Peninsular Ranges province extends 900 miles southward from the Santa Monica Mountains to the tip of Baja California (Yerkes, et al., 1965). The province is characterized by elongate northwest-trending mountain ridges separated by sediment-floored valleys. However, the most dominant structural features of the province are the northwest trending fault zones, most of which either die out, merge with, or are terminated by the steep reverse faults at the southern margin of the Transverse Ranges province. The Los Angeles Basin is a deep structural trough, which has been receiving sediments since the end of the Cretaceous (65 million years ago). The deepest part of the basin is south of the site where approximately 31,000 feet of marine and non-marine sedimentary rock have been deposited which are of Tertiary and Quaternary age. Beneath the site the thickness of this rock is approximately 14,000 feet (Yerkes, et al., 1965). During the last few thousand years, the basin has been receiving sediments shed from the surrounding mountains (i.e., Santa Monica, San Gabriel, and Santa Ana Mountains). The most recent sediment deposition has occurred primarily during flooding of the ancestral Los Angeles River. The project site is located in the Repetto Hills at approximately 457 feet above mean sea level and about 3.1 miles east of the Los Angeles River. The Repetto Hills have been uplifted and are topographically higher than the surrounding alluviated valleys. Many of these valleys are sub-parallel and dissect the Repetto Hills (Dibblee, 1989).

The Repetto Hills are a surface expression of the Elysian Park Anticline, a west-northwest trending fold belt which forms a topographic high of folded rock layers of Early Pliocene to Late Miocene age (Dibblee,1989). This fold belt is a late addition to the Los Angeles Basin and is underlain by a north-dipping system of blind thrust faults referred to as the Elysian Park fault system. The hinge of the Elysian Park Anticline is mapped less than 0.5 mile north of the site (Dibblee 1989; Lamar, 1970). The rock layers south of the anticline's hinge, which includes those underlying the site, are generally striking about N40°W and dipping 55° to the southwest.

The site is underlain by fill soils to shallow depths (about 3 to 5 feet) overlying older alluvial deposits (Map Symbol Qoa) of late Pleistocene age. Subsurface geologic profiles are described in the following. Regional geologic units of the project site and its vicinities are shown in the attached Figure 3, *Regional Geology Map*.

2.2 Subsurface Geologic Profile

Subsurface geologic profiles across the school campus, as encountered within the drilled holes, consisted of a layer of fill soils, depths varying from 3 to 5 feet, which was followed by native alluvial soils up to the maximum explored depth of 50 feet. Fill soils were light to reddish brown color silty to silty, clayey fine to medium sand.

Underneath the fill, alluvial soils comprised of mostly silty to silty, clayey sand, and sandy silts with fine to medium sand grains and variable amount of fine contents. Layers of fine to coarse sand with few to less amount of silts were encountered within depths 15 to 25 feet. Fine contents of silty to silty, clayey soils varied from about 53 to 62 percent. Few to some fine gravels were found at different depths. Alluvial soils were light to grayish brown color.

Descriptions of subsurface soils are presented in the field exploration logs (Appendix A). Two geologic cross sections A-A' and B-B' across the existing school campus are presented in Figures 4a and 4b, respectively. Section alignments are shown in Figure 2, *Site Plan and Field Exploration Map*. Important geotechnical characteristics of the subsurface soils that are relevant for the proposed modernizations are discussed briefly in the following subsections.

2.2.1 Field Moisture and Density

Subsurface soils were found to be medium dense to very dense, stiff to hard - generally denser, stiffer with depth. Field dry densities of the subsurface soils within upper 10 feet varied from 85.0 to 125.1 pcf . Relatively loose soils were encountered at two separate areas: (a) at Bore Hole B-12 in the garden area between Classroom Building and Agriculture Classroom within southwestern portion of the campus; and (b) at Bore Hole B-2 in the bleachers area at the adjacent south side of the 4-story Classroom/Library building near the northwestern corner of the campus. Field dry densities at these two locations varied from 85.0 to 99.2 pcf within upper 10 feet. When compared to the maximum Proctor densities (ASTM D1557; see Appendix B), relative compaction of the soils within upper 5 feet varied from about 84 to 95 percent with exception of the above two location with relatively loose soils.

Subsurface soils were found to be generally moist. Field moistures within upper 10 feet varied over a wide range - from 3.4 to 27.7 percent. This wide variability

of moisture may be attributed to variable fine contents as well as retention of irrigation waters at multiple locations.

2.2.2 Expansion Potential

Subsurface soils at shallow depths across the school campus varied from silty to silty, clayey sand with variable amount of silts, trace amount to little clay. Laboratory test results for two representative (2) near surface soil samples (upper 5 feet) indicated very low expansion potentials with Expansion Index values 0 (per ASTM D4829). Accordingly, foundation and slab subgrade soils of the existing buildnig structures are considered non-expansive per Section 1803A.5.3 of the 2016 CBC (California Building Code).

2.2.3 Shear Strength Parameters

Shear strength properties of subsurface soils were evaluated from laboratory direct shear tests on representative ring samples that were obtained from depths 5 and 10 feet - within the influence zones of foundation loads of the existing building structures.

Laboratory test results of the shear strength parameters (cohesion varying from 190 to 320 psf and friction angles 31^0 to 33.2^0) are found to be within the typical range of values for the silty and clayey fine to medium sands that were tested. These values will support the bearing and passive resistance demand for foundations of the proposed modernizations.

2.2.4 Consolidation and Collapse Potentials

A subsurface soil sample from a depth 10 feet, within the zone of influence of the foundation load for the existing buildings, was tested to obtain a conservative estimate of the consolidation characteristics and collapse potential upon saturation. Test results indicate the relatively low compressibility and a negligible hydro-collapse potential upon saturation when subjected to the anticipated structural load. Compressibility of the near surface soils will be greatly diminished by remedial grading as recommended in Section 4.2.2. Subsurface soils below the target remedial grading depths are relatively dense and competent to provide bearing for the structural loads from the buildings.

2.2.5 Excavatability

Based on our investigation findings, subsurface soils within the anticipated maximum depth of excavation for this project are expected to be readily excavatable by conventional earthmoving and trenching equipment in good working order.

2.2.6 Corrosion Potentials

In general, soil environments that are detrimental to concrete have high concentrations of soluble sulfates and/or pH values of less than 5.5. Section 4.3 of ACI 318 (ACI, 2011), as referred in Section 1904 of the 2016 CBC, provides specific guidelines for the concrete mix-design when the soluble sulfate content of the soil exceeds 0.1 percent by weight or 1,000 parts per million (ppm). The minimum amount of chloride ions in the soil environment that are corrosive to steel, either in the form of reinforcement protected by concrete cover or plain steel substructures (such as steel pipes or piles) is 500 ppm per California Test 422.

Two (2) representative bulk soil samples, taken from shallow depths below the existing grade within the project campus area, were tested for corrosion suite (soluble sulfate, chloride, pH and resistivity). The test results are summarized in Table 1 below and also, presented in Appendix B.

Table 1 – Laboratory Test Results of Soil Corrosivity

Sample Location	pH	Sulfate (% by wt.)	Chloride (ppm)	Min. Resistivity (ohm-cm)
B-4 @ 0 - 5 ft.	9.40	0.012	52	1,700
B-13 @ 0 - 5 ft.	8.65	0.009	46	2,000

Above test results indicate that the subsurface soils near the existing grade will have very low soluble sulfate and chloride contents (Exposure Classes S0 and C0 per ACI 318-11). Consequently, these soils are not considered corrosive for buried concrete, which will be in direct contact with soil (e.g., structural foundations). However, these soils are considered to contain severe corrosion potential to buried ferrous metal based on the findings of the studies presented in ASTM STP 1013 titled *Effects of Soil Characteristics on Corrosion* (February,

1989). Corrosion protection measures for buried ferrous metals are discussed in Section 4.10.

2.3 Groundwater

Groundwater was not encountered up to the maximum explored depth of 50 feet during this investigation. Historic shallow groundwater level within the subject school campus is on the order of 200 feet as documented in the state's seismic hazard zones report (CGS, 2001). Groundwater is not considered as a constraint for design and construction of the proposed modernizations of this school site.

2.4 Flood Hazard

The project area and its close vicinities are not mapped in any 100-year or 500-year flood plains. Flood Insurance Rate Map (FEMA, 2008) for this site indicates that the site is located within 'Zone X', which is categorized as a zone outside the 100- and 500-year flood plains. Accordingly, potential for flood hazard to affect the proposed improvements are considered very low.

3.0 FAULTING, SEISMICITY AND SEISMIC HAZARDS

3.1 Faulting and Primary Seismic Hazards

Surface ground rupture along active fault zones and ground shaking represent primary or direct seismic hazards to structures. There are no known active or potentially active faults trending toward or through the site and the site is not within any currently designated State of California Alquist-Priolo Special Studies Zone (Bryant and Hart, 2007). However, the project site is located in the highly seismic Southern California region within the influence of several faults that are considered to be active or potentially active. Active strands of the Sierra Madre-Cucumonga Fault Zone are located north of the site along the base of the San Gabriel Mountains. An active fault is defined by the State of California as a "sufficiently active and well defined fault" that has exhibited surface displacement within the Holocene time (about the last 11,000 years). A potentially active fault is defined by the State as a fault with a history of movement within Pleistocene time (between 11,000 and 1.6 million years ago).

The geologic structure of southern California is dominated by northwest-trending faults associated with the San Andreas system. Faults such as the Newport-Inglewood, the Whittier-Elsinore, the Palos Verdes Hills and the San Jacinto are all major faults associated with this system. They are all known to be seismically active, and most are known to have ruptured the ground surface in historic time. Also within the southern California region are a number of west-trending, low-angle reverse (thrust) faults that are similarly active.

Several faults are present in Southern California that do not have surface expression. These faults are generally known as blind thrust faults. Both the Whittier Narrows earthquake (1987) and the Northridge earthquake (1994) occurred on blind thrust faults. Blind thrust faults are low angle reverse faults that do not extend to the surface; therefore, identifying their locations from surface mapping is difficult at best. Rather deep bore holes and seismic records provide details about the geometry of these faults.

The nearest fault to the site is Elysian Park (Upper) blind thrust fault, located 1.7 miles to the northwest of the site. Other blind thrust fault close to the project site is Puente Hills blind thrust fault located at 5.33 miles. Elysian Park thrust fault consists of a series of shallowly north and northeast-dipping blind thrusts that extend from Orange County through downtown Los Angeles and westward beneath the Santa Monica Mountains. The thrust system is not exposed at the surface but is buried under the unconsolidated alluvial

sediments of the Los Angeles basin. Recent studies suggest that the upper section of the fault experiences an average slip rate of 1.3 mm/year and is capable for producing a Magnitude 6.8 earthquake. A buried strand of the Elysian Park fault system was the causative fault for the 1987 Whittier Narrows earthquake (Mw 5.9).

Besides the above blind thrust faults, Raymond and Hollywood faults are located within close distances from the site. The Hollywood fault is an oblique reverse-left lateral strike slip fault that has undergone at least one surface rupture in the past 20,000 years (Dolan et al., 1997). Unfaulted deposits indicate that the most recent earthquake, with resultant ground rupture, occurred at least 500 to 3,000 years ago. Hollywood fault has slip rate of 1.0 mm/year and is capable for producing a Magnitude 6.7 earthquake.

The Raymond fault, the Hollywood fault and he Santa Monica fault form a system of north dipping reverse and oblique slip fault zone that transect the Los Angeles area from Santa Monica Bay 30 miles northeast to the San Gabriel Mountains. The Raymond Hill Fault Zone represents a complex frontal fault system that separates the Transverse Range Geomorphic province to the north from the Peninsular Range Geomorphic province to the south. Pleistocene and Holocene-aged fault movements are evident along some of the fault segments within the eastern portion of this zone (Hart et al., 1978; Crook et al., 1987). However, the recency of movement and recurrence intervals for other fault segments to the west are poorly constrained due to dense urban development that has modified any natural fault related geomorphic features (Hill et al., 1979). This fault system has a slip rate of 1.5 mm/year and is capable for producing a Magnitude 6.8 earthquake.

A list of regional faults within 50 miles radius of the project site is presented below in Table 2. Nearest distance from the project site, maximum weighted magnitude (Mw) earthquake, and estimate of slip rates of these faults are listed in this table. The location of the project site with respect to major regional faults is shown on Figure 5, *Regional Fault Map*.

Table 2 – Selected Regional Faults

Fault Zone	Closest Distance (km)	Maximum Magnitude (Mw)	Slip Rate (mm/yr)
Elysian Park (Upper)	1.7	6.8	1.3
Puente Hills (Los Angeles)	5.33	7.0	1.5
Raymond	5.55	6.8	1.5

Fault Zone	Closest Distance (km)	Maximum Magnitude (Mw)	Slip Rate (mm/yr)
Hollywood	6.19	6.7	0.33 - 0.75
Verdugo	6.5	6.9	0.5
Santa Monica	6.74	7.4	0.27 - 0.39
Elsinore	8.2	7.7	2.5 - 3.0
Newport-Inglewood	10.21	7.27	0.6
Sierra Madre	11.39	7.2	0.36 - 4.0
Clamshell-Sawpit	14.1	6.7	N/A
San Jose	17.3	6.7	0.2 - 2.0
Northridge	21.79	6.9	3.5 - 6.0
Chino	24.99	6.8	1.0
Cucamonga	26.56	6.7	5 - 14
San Andreas	33.32	7.92	20 - 35

With consideration of the above distances from the nearby active and potentially active faults, the potential for future surface fault rupture within the subject school site is considered very low. However, moderate to severe ground shaking can be expected at this site. Peak ground acceleration at this site is evaluated 0.936g for 2 percent probability of exceedance in 50 years (2,475 years return period) based on the Probabilistic Seismic Hazards Assessment Model (CGS, 2008b).

The site is situated in a seismically active region of southern California. Historic earthquakes of Richter Magnitude 6.0 or greater are listed in Table 3 below. In addition to the these large magnitude earthquakes, there have been many earthquakes of 5.9 or less within a few miles of the site. This historic pattern of seismic activity is expected to continue and it is likely that moderate to severe ground shaking will affect the site sometime during the design life of the structure.

Table 3 – List of Historical Earthquake Events (Mw > 6.0)

Date	Magnitude M_w	Epicenter		Region Affected	Loss of Life/Damage
		Latitude	Longitude		
Dec. 8, 1812	7.5	34.37	-117.65	Orange County	40 dead at San Juan Capistrano
July 11, 1855	6.3	34.10	-118.10	Los Angeles Area	Damaged the bell tower at the San Gabriel Mission, most buildings in the young city of Los Angeles
July 22, 1899	6.5	34.30	-117.50	Wrightwood	Chimneys knocked down; landslides reported
Apr. 21, 1918	6.8	33.75	-117.00	San Jacinto	1 dead; several injuries; $200,000 in property damage
Mar. 10, 1933	6.4	33.37	117.58	Long Beach	115 dead; $6 million in property damage
Feb. 9, 1971	6.6	34.41	118.40	San Fernando	65 dead; >2,000 injured; $505 million in property damage
June 28, 1992	7.3	34.2	116.44	Landers	1 dead; 402 injured; $91.1 million in property damage
June 28, 1992	6.5	34.17	116.83	Big Bear	Included with Landers losses above
Jan. 17, 1994	6.7	34.21	118.54	Northridge	57 dead; >9,000injured; $40 billion in property damage

3.2 Secondary Seismic Hazards

Secondary seismic hazards for this site, generally associated with severe ground shaking, may include liquefaction, lateral spreading, seismic settlement, landslide, earthquake-induced flooding, tsunamis and seiches. Potentials for these secondary seismic hazards are briefly discussed in the following subsections.

3.2.1 Liquefaction

Liquefaction is the loss of soil strength due to a buildup of pore-water pressure during severe ground shaking. Liquefaction is associated primarily with loose (low density), saturated, fine- to medium-grained, clean cohesionless soils.

Liquefaction must have all three of the following to occur simultaneously:

- Strong ground shaking,
- Shallow groundwater, and
- Loose relatively clean sands.

The site is not mapped within any liquefaction hazard zone as shown in Figure 6, *Seismic Hazard Zones Map*, which is excerpted from the state's seismic hazard zone map (CGS, 1999). Historic shallow groundwater level at the subject school site is on order of 200 feet as documented in the state's seismic hazard zones report (CGS, 2001). Due to deep groundwater level, potential for liquefaction does not exist for this site.

3.2.2 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.

Topography within the school campus and its close surroundings is relatively flat to gently sloping. The site is not considered susceptible to liquefaction. Under these circumstances, the potential for lateral spreading to impact the building structures at this school is considered non-existent.

3.2.3 Seismic Settlement

During a strong seismic event, seismically induced settlement can occur within loose to moderately dense, unsaturated granular soils, which is not liquefaction. Settlement caused by ground shaking is often non-uniformly distributed, which can result in differential settlement.

Subsurface soils are medium dense to very dense, stiff to hard - gradually denser, stiffer with depth. However, site seismicity level is high (0.936g Peak Ground Acceleration for 2% probability in 50 years). Our estimate of maximum seismic settlement at this site is evaluated 1.66 inches (see Appendix C). Proposed modernizations of the existing buildings and any new building structures will not

be adversely impacted by a seismic event if settlement estimates in Section 4.4 are considered in design.

3.2.4 Landslides

The site is not mapped within any landslide hazard zone as shown in Figure 6, *Seismic Hazard Zones Map*. Topography within the school campus and it close surroundings is relatively flat to gently sloping. There is not steep upsloping grade (inclined at steeper than 2:1 (horizontal:vertical)) within immediate vicinity of the school campus. Therefore, the potential for seismically-induced landslides, or debris flows to the site is considered to be very low.

3.2.5 Tsunamis and Seiches

Tsunamis are tidal waves that are generated by fault displacement or major ground movement. The project area is far inland from the Pacific coastline. Therefore, potential for tsunami hazard to encroach the project area does not exist.

Seiches are large waves that are generated in enclosed bodies of water in response to ground shaking. At the present time, no water storage reservoirs are located at high elevation within immediate vicinities of the project area. Therefore, hazard from seiches does not exist for this project site.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 General

Based on our geotechnical investigation findings, it is our opinion that the subject school site is suitable for the proposed additions of new buildings and modernizations of the existing buildings provided the design parameters and grading recommendations in this report are taken into account during design and construction of this project.

Presented hereafter are our recommendations for site grading; foundation/slab design parameters; seismic parameters, corrosion evaluations and mitigation measures; and other relevant design parameters and construction considerations for this project.

4.2 Earthwork

Earthwork is expected to consist of site clearing; remedial overexcavation of the upper soils; placement of native and/or import fill soils for the building pad, site improvements; preparation of foundation bottoms. Recommendations for site earthwork are provided in the following paragraphs.

4.2.1 Site Preparation

Prior to the grading for new structures, the site with the grading limits shall be cleared of any vegetation, weeds, debris, asphalt, concrete, and ant remnants from previous construction. Excavated asphalt, concrete shall be hauled off the site. Any existing utility lines, buried abandoned utilities or objects shall be removed and/or rerouted if they interfere with the proposed construction. The cavities resulting from removal of utility lines and any buried obstructions shall be properly backfilled and compacted as recommended in Section 4.2.3 of this report.

4.2.2 Excavation/Overexcavation

New Building Pad - Overexcavation within any new building pad area shall extend minimum 3.5 feet below the existing grade or 2 feet below the foundation bottom, whichever is lower. Lateral limits of overexcavation shall extend minimum 5 feet beyond the outer edges of the new footings, wherever not constrained by any existing footings.

Remodel, Interior Footings - For replacement of any slab-on-grade inside any existing building, overexcavation of subgrade soils will not be necessary unless unsuitable soil conditions are encountered.

For any new interior footings inside any existing building, overexcavation shall extend minimum 12 inches below the foundation bottom. Lateral limits of overexcavation shall extend minimum 12 inches beyond the edges of the interior footings, wherever not constrained by any existing footings.

Minor Foundations - For any minor foundations for site improvements such as planter wall, seat wall, enclosure wall, short retaining walls, etc., overexcavation shall extend minimum 2 feet below the existing grade or 12 inches below the footing bottom, whichever is deeper. Lateral limits of overexcavation shall extend minimum 18 inches beyond the outer edges of these footings, wherever not constrained by any existing footings or flatwork.

Pavement, Flatwork - For walkway, pavement and any exterior flatwork areas around the building, overexcavation shall extend minimum 12 inches below the existing grade or final soil subgrade, whichever is deeper. Lateral limits of overexcavation shall extend minimum 18 inches beyond the outer edges of these improvements, wherever not constrained by any exising Structural footings or flatwork.

If loose, yielding or otherwise unsuitable subgrade soils are exposed during grading, overexcavation shall be made further down than the above recommended limits until competent subgrade soils are encountered. Competent removal bottom shall be relatively unyielding by hand probing with a cone tipped steel probing rod and shall have minimum 105 pcf dry density.

4.2.3 Fill Placement and Compaction

After overexcavation as described above and prior to placement of fill soils, subgrade soils at the overexcavation bottom shall be scarified, moisture-conditioned to within 2 percent of the optimum moisture, and recompacted in place to minimum 90 percent compaction (ASTM D1557).

Any fill soils shall be placed in thin lifts - loose lift thickness not exceeding 8 inches - moisture conditioned as necessary (by adding water or blending with

drier soils), and compacted to minimum 90 percent (ASTM D1557).

Base materials underneath the pavements, exterior flatwork, and wherever else used shall be placed at minimum 95 percent compaction (ASTM D1557) with moisture within 2 percent of the optimum moisture.

During grading, field density tests shall be taken for the graded fill soils and base materials at the following schedule:

- Minimum one (1) field test for every 2,000 square feet area for each one (1) foot lift of fill and at the finish soil subgrade/base surface.
- Minimum one (1) field test for each 150 linear feet of foundation excavation bottoms.
- Minimum one (1) field test for each 150 linear feet of trench backfill for each one (1) foot lift of fill and at the finish grade.

Field density tests may be taken by utilizing a Nuclear Gauge (ASTM D6938) or combination of both Nuclear Gauge and Sand Cone (ASTM D1556) methods.

4.2.4 Trench Backfill

Utility trenches shall be backfilled with compacted fill in accordance with Sections 306-1.2 and 306-1.3 of the *Standard Specifications for Public Works Construction,* ("Greenbook"), 2012 Edition.

Utility trenches can be backfilled with onsite or import soils that meet the fill soils criteria in Section 4.2.5. Prior to backfilling the trenches, pipes shall be bedded in and covered with import granular material that has a minimum Sand Equivalent (SE) value of 40 (ASTM D2419). Bedding sands shall be placed by mechanical compaction; jetting is not recommended. Soil backfill over the pipe bedding zone shall be placed in thin lifts, moisture conditioned to within 2 percent of the optimum moisture, and mechanically compacted to minimum 90 percent compaction (ASTM D1557) within structural areas. Backfill soil compaction may be reduced to 85 percent relative compaction (ASTM D1557) only in landscaped areas outside and at least 5 feet away from the structural footings.

Wherever mechanical compaction as recommended above is not practical due to

space limitations or shallow trench depth, alternative backfill method such as placement of pea gravel or sand-cement slurry (minimum 2 sacks of cement for 1 cubic yard mix) may be considered for backfill of utility trenches.

4.2.5 Fill Materials

Onsite soils that are free of organics, debris and oversize particles (e.g., cobbles, rubble, etc. that are greater than 3 inches in the largest dimension) are suitable for use as fill. Import soils, if used, shall be free of organics, debris and oversize particles (e.g., cobbles, rubble, etc. that are greater than 3 inches in the largest dimension). Additionally, import soils shall not have any corrosion impacts to buried concrete; and be non-expansive (Expansion Index less than 20 per ASTM D4829).

Base materials underneath walkway, parking lots; and any exterior flatwork areas may consist of crushed aggregate base or crushed miscellaneous base in conformance to Sections 200-2.2 or 200-2.4 of the *Standard Specifications for Public Works Construction,* ("Greenbook"), 2012 Edition, respectively.

Prior to import, geotechnical consultant shall evaluate and test the import soils and base materials in order to confirm the quality of the material.

4.2.6 Temporary Excavation

Based on the subsurface soil profile, temporary excavations during grading may be done according to the slope ratios as presented in Table 4 below.

Table 4 – Slope Ratio for Temporary Excavation

Maximum Depth of Cut (feet)	Maximum Slope Ratio* (horizontal:vertical)
0 - 4	Vertical
4 - 10	1:1

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

Surcharge loads such as stockpiles of construction debris, construction materials, excavated soil, etc. shall not be kept more than six (6) feet in height and not within a

distance H from the top of unsupported excavation edge, where H is the depth of the cut.

During grading, all applicable requirements in Article 6, Section 1541.1 of the State of California Construction Safety Order (CAL/OSHA, 2013 Edition) shall be met for protection of the construction workers working inside the excavations. The soils exposed in the 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.

4.2.7 Support of Adjacent Structures

Excavation for new footings adjacent to existing structural footings shall not extend below a plane at 1:1 projection downward and outward from the bottom edges of the existing footings. Otherwise, the contractor shall provide adequate shoring for the excavations or implement slot cut procedure. If new footings are designed to extend below the adjacent existing footings, contractor shall implement appropriate underpinning measures (e.g., helical spring, mechanical support, struts) during undermining the existing footings.

In case of slot cut, slots shall be constructed in an A, B, C sequence with no adjacent slot excavated until a slot is completely backfilled and compacted to the initial grade. Any individual slot shall not be wider than 8 feet. Removal bottoms inside the slots shall be prepared and fill soils shall be placed as recommended in Section 4.2.3. Any slots that are excavated shall be backfilled and compacted on the same day. No slot cut shall remain open overnight.

4.3 Seismic Design Parameters

Seismic design parameters determined from the both the general procedure (2016 CBC, map based) and the site-specific analysis are described in the following subsections:

4.3.1 General Procedure

With consideration of our findings, subsurface soil profile at the project site may be characterized within the category of Site Class D ("Stiff Soil") according to Section 20.3 of ASCE/SEI 7-10 as referred in Section 1613A.3.2 of the 2016 California Building Code (CBC). Based on the nature of occupancy, proposed Culinary Arts

Building structure falls into Risk Category II (per Table 1604A.5 of the 2016 CBC). Corresponding seismic design parameters for this soil profile, site location (Latitude: 34.0395°N; Longitude: 118.1816°W at the central area of the school buildings) and Risk Category are determined in accordance with Section 1613A.3 of the 2016 CBC, which are derived from risk-targeted Maximum Considered Earthquake (MCE_R) based spectral response analysis. These map based parameters from the CBC general procedure are presented in Table 5 below.

Table 5 – Seismic Design Parameters

Categorization/Coefficient	Design Value
Site Class	D
Mapped MCE Spectral Acceleration for Short (0.2-Second) Period, S_S	2.426g
Mapped MCE Spectral Acceleration for a 1-Second Period, S_1	0.842g
Short Period (0.2-Second) Site Coefficient, F_a	1.0
Long Period (1-Second) Site Coefficient, F_v	1.5
Adjusted Spectral Response Acceleration at 0.2-Second Period, S_{MS}	2.426g
Adjusted Spectral Response Acceleration at 1-Second Period, S_{M1}	1.264g
Design (5% damped) Spectral Response Acceleration for Short (0.2-Second) Period, S_{DS}	1.617g
Design (5% damped) Spectral Response Acceleration for a 1-Second Period, S_{D1}	0.842g
Seismic Design Category	E

4.3.2 Site Specific Analysis

Seismic Design Category E is assigned for the subject site. Accordingly, site-specific ground motion analyses are performed in accordance with ASCE 7-10, Chapter 21 as required in Section 1616A.1.3 of the 2016 CBC. Details about site-specific analyses, seismic parameters, and design spectral curve are presented in

Appendix D. For this analysis, Vs(30) value of 275 m/sec and structural damping 5% are considered.

Site-specific response spectrum parameters for the project site are summarized below.

S_{DS} = 1.389g; S_{D1} = 0.970g
S_{MS} = 2.083g; S_{M1} = 1.455g

Proposed new building structure and associated structural improvements at this project site shall be designed for the above site specific seismic parameters and the design spectral curve from site specific analysis (see Figure 5 in Appendix D).

4.4 Building Foundation Design

Any new building structure and modernization of the existing buildings can be supported on shallow spread footings – wall and/or column footings – bearing on properly compacted subgrade soils, prepared as recommended in Section 4.2.2 and 4.2.3. Geotechnical design parameters for shallow spread foundations are described in the following subsections:

Footing Dimensions and Embedments – Minimum dimensions and embedment for various foundations are listed below:

Table 6 – Foundation Dimensions and Depths

Foundation Type	Minimum Dimension	Minimum Embedment
One-story building, interior footings supporting one level	Wall footings 12 inches wide, column footings 18"X18"	18 inches below lowest adjacent grade [1]
Two-story building, interior footings supporting two levels	Wall footings 18 inches wide, column footings 24"X24"	24 inches below lowest adjacent grade [1]
Three-story building, interior footings supporting three levels	Wall footings 24 inches wide, column footings 30"X30"	30 inches below lowest adjacent grade [1]

Foundation Type	Minimum Dimension	Minimum Embedment
Four-story building, interior footings supporting four levels	Wall footings 30 inches wide, column footings 36"X36"	36 inches below lowest adjacent grade [1]

[1] Lowest adjacent grade is considered as the top of interior slab-on-grade for the interior footings or the finished exterior soil grade (excluding landscape topsoil) for the perimeter footings.

Proposed new footings adjacent to any existing footings shall be embedded at the same depth as or lower than the existing footings. New footings shall be doweled to the adjacent existing footings. Any existing footing shall not be embedded within 1:1 (horizontal: vertical) projection downward and outward from the bottom edges of any new footings. Footings located adjacent to utility trenches or vaults shall be embedded below an imaginary 1:1 (horizontal: vertical) plane projected upward and outward from the bottom edge of the trench or vault, up towards the footings.

Vertical Bearing – For footings with an embedment 18 inches below the lowest adjacent grade as defined above and bearing on properly compacted soil subgrade, allowable vertical bearing capacity of 2,000 psf may be considered for design, which may be increased by 500 psf for each additional foot of embedment up to a maximum value of 3,500 psf. These bearing values may be increased by one-third for short-term loads (e.g., seismic, wind).

Lateral Bearing - Lateral loads are resisted by friction at the footing bottoms, between concrete and the supporting soil subgrade, as well as by the passive resistance of the soils from foundation embedment. An allowable frictional resistance of 0.3 may be used for design of concrete foundations poured on properly compacted soil subgrade. Allowable passive resistance of the soils may be considered 250 psf per foot of footing embedment if the foundation concrete is poured neat against properly compacted fill soils without leaving any void pockets. These friction and passive values have already been reduced by a factor-of-safety of 1.5. When frictional and passive resistances are combined to compute the total lateral resistance, no reduction is needed to any of these two components. In accordance with Section 1806A.1 of the 2016 CBC, one-third increase of the lateral bearing pressure (i.e., soil's passive resistance) is allowed for short-term seismic or wind loads.

Settlement Estimates – The static settlement of the proposed new foundations will depend on the actual footing dimensions and the imposed vertical loads. Based on the allowable

bearing capacity as presented above, maximum static settlement on the order of 0.5 inch may be anticipated. Due to sandy, silty nature of the subsurface soils, majority of this settlement will occur during and immediately after construction.

Post-construction maximum seismic settlement is estimated 1.66 inches in the event of a major earthquake (see Appendix C). Due to fairly uniform geologic profiles across the school campus, differential seismic settlement potential will be greatly minimized. Maximum differential settlement (static and dynamic combined) across the building pad may be considered on the order of 0.75 inch over a horizontal distance of 40 feet.

4.5 Minor Foundation Design

Any minor foundations outside the buildings such as planter wall, seat wall, perimeter wall, short retaining walls, etc. can be supported on shallow spread footings – wall and/or column footings – bearing on properly compacted subgrade soils, prepared as recommended in Section 4.2.2 and 4.2.3. Geotechnical design parameters for these minor foundations are described in the following subsections:

Footing Dimensions and Embedments – Wall and column footings shall be embedded minimum 12 inches below the lowest adjacent grade, which is considered as the top of flatwork, paving or the exterior soil subgrade (excluding any landscape topsoil). Wall footings shall be minimum 12 inches wide, column footings shall be minimum 18"X18".

Footings located adjacent to utility trenches or vaults shall be embedded below an imaginary 1:1 (horizontal: vertical) plane projected upward and outward from the bottom edge of the trench or vault, up towards the footing.

Vertical Bearing – For footings with minimum embedment as described above and bearing on properly compacted soil subgrade, allowable vertical bearing capacity of 1,250 psf may be considered for design, which may be increased by 400 psf for each additional foot of embedment up to a maximum value of 1,750 psf. These bearing values may be increased by one-third for short-term loads (e.g., seismic, wind).

Lateral Bearing - Lateral bearing parameters will be the same as above in Section 4.4.

4.6 Building Slab-On-Grade

Slab-on-grade inside the buildings shall be placed on properly compacted subgrade, prepared as recommended in Sections 4.2.2 and 4.2.3 of this report. Any new slab that is right next to any existing slab inside a building shall be connected to the existing slab by dowel bars. New slabs shall be minimum 4 inches thick and be reinforced with No. 3 rebars at 15 inches on-center each way at mid-depth throughout the slab. Project structural engineer shall design the actual slab thickness and reinforcement based on structural load requirements.

The minimum recommended steel in the above will not prevent the development of slab cracks but will aid in keeping joints relatively tight and reduces the potential for differential movement between adjacent panels. Care should be taken to avoid slab curling if slabs are poured in hot weather. Slabs should be designed and constructed as promulgated by the Portland Cement Association (PCA). Prior to the slab pour, all utility trenches should be properly backfilled and compacted.

In areas where a moisture-sensitive floor covering (such as vinyl, tile, or carpet) will be used, we recommend that the floor slab be underlain by a capillary break consisting of a moisture retarder (15-mil thick Visqueen or equivalent) membrane, and a 4-inch thick layer of gravel. These will be placed in the following order - concrete slab, moisture retarder membrane, 4-inch thick layer of gravel, compacted soil subgrade.

For the capillary break gravel layer, we suggest the gradation of gravel Table 7 below, which in conformance with #89 aggregate (per ASTM C33). Moisture retarder seams shall be overlapped a minimum of 6 inches and taped or otherwise sealed.

Table 7 – Gradation of Capillary Break Gravel Layer

Sieve Size	Percent passing
3/8”	90 -100
No. 4	20 – 55
No. 8	5 – 30
No. 16	0 – 5
No. 50	0 – 5

4.7 Exterior Flatwork, Site Improvements

Any precise grading plan for this project is unavailable as of the date of this report. There may be concrete flatwork, site improvements for this project, which may include hard courts, flatwork, sidewalk, walkway, trash enclosure and other associated features

Minimum concrete section, underlying base thickness, concrete strengths, and minimum reinforcements for various exterior concrete site improvements (non-pavements) are presented below in Table 8. Appropriate joints and saw cuts should be provided for all the concrete flatworks in accordance with either Portland Cement Association (PCA) or American Concrete Institute (ACI) guidelines.

Table 8 – Concrete Flatwork and Site Improvements

Proposed Improvements	Min. Slab Thickness (inch)	Min. Base Thickness (inch)	Min. Concrete Strength (psi)	Minimum Reinforcement
Courtyard, ADA ramp, sidewalk, walkway	4.0	4.0	2,500	#3 rebars @ 15" o/c, both ways
Playground, hard courts	4.0	4.0	3,500	#3 rebars @ 15" o/c, both ways
Trash enclosure pad and apron	6.0	4.0	3,500	#4 rebars @ 18" o/c, both ways

Soil subgrade below the concrete and underlying base layer should be prepared and compacted as recommended in Section 4.2.3. Specifications for base materials are provided in Section 4.2.5.

4.8 Lateral Earth Pressure

No grading plan for this project is available as of the date of this report. Short retaining walls such as planter walls, seat wall, aesthetic grade separation walls, etc. may be incorporated in the precise grading plan. Any retaining wall for this project shall be designed for the lateral earth pressures presented in Table 9 below. These pressure values are expressed as equivalent fluid unit weight (in psf/ft or pcf). Backfill for the retaining walls may consist of onsite or import non-expansive soils (Expansion Index less than 20 per ASTM D4829). Backside of the retaining walls (within retained height) shall be waterproofed and appropriate drainage (such as weep holes or French drain) shall be installed behind the walls so that any hydrostatic pressure cannot develop.

Table 9 – Lateral Earth Pressure

Loading Condition	Equivalent Fluid Unit Weight for Level Backfill (psf/ft.)
Active	35
At-Rest	50
Passive	250

Lateral pressure values (active and at-rest) in Table 9 do not contain any factor of safety. Structural design needs to take into consideration applicable Factors of Safety and/or load factors for these lateral pressures. However, the passive resistance values in Table 9 are allowable values, already reduced by a Factor of Safety 1.5.

If the wall can yield enough to mobilize full shear strength of backfill soils, then the wall can be designed for "active" pressure. If the wall is not allowed to yield under the applied load, the shear strength of the soil cannot be mobilized and the earth pressure will be higher. Such walls should be designed for "at rest" conditions.

In addition to the above lateral pressures from retained earth, lateral pressures from other surcharge loads such as loads from any adjacent structures shall be added, if those fall within a 1:1 upward and outward projection from the bottom edges of the of retaining wall foundations (in the retained side).

In accordance with Section 1803.5.12 of the 2016 CBC, if the retained height of the wall exceeds 6 feet (measured from the top of the footing to the top of the retained soil mass), seismic lateral pressure shall be considered in design in addition to lateral earth pressure. Incremental seismic lateral pressure may be considered 18H psf (where H is the retained height of the wall). Seismic pressure distribution profile shall be considered as an inverted triangle with the resultant force acting at a height 0.6H above the footing.

4.9 Cement Type and Concrete Properties

Based on the laboratory test results, soluble sulfate and chloride contents of subsurface soils within shallow depth (upper 5 feet) are very low (Exposure Classes S0 and C0 per ACI 318-11). These soils are not considered corrosive to buried concrete, which will be in

direct contact with soils (e.g., structural foundations). As a result, there is no restriction on the type of cement and minimum concrete strength from the durability standpoint. Conventional Type II cement (ASTM C150) may be used for concrete for this project. Minimum 28-day compressive strength (ASTM C39) of structural concrete shall be 2,500 psi.

4.10 Corrosion Measures for Buried Metal

The resistivity test result of the site soil indicates that these soils could be severely corrosive to buried ferrous metals. Non-metal underground pipes (e.g., PVC) should be used instead of metal pipes. If ferrous metal components (e.g. underground pipes, anchor hold down, metal straps for foundation) are planned to be buried with direct contact with subsurface soils, a corrosion consultant needs to be retained for specific recommendations on corrosion protection. As a minimum, the following corrosion mitigation measures should be implemented for this project:

- Below-grade ferrous metals shall be given a high-quality protective coating, such as 20-mil thick plastic tape, extruded polyethylene, coal-tar enamel, or Portland Cement mortar.
- Below-grade ferrous metals shall be electrically insulated (isolated) from above-grade ferrous metals and other dissimilar metals by means of dielectric fittings in utilities and exposed metal structures breaking grade.
- Steel and wire reinforcement within concrete that will be in direct contact with the site soils shall have at least 3 inches of concrete cover.

4.11 Surface Drainage

In compliance with Section 1804A.3 of the 2016 CBC, the ground immediately adjacent to the proposed new foundations shall be sloped away from the building at a slope of not less than 5 percent grade (20 horizontal : 1 vertical) for a minimum distance of 10 feet measured perpendicular to the face of the wall. If any physical obstructions prohibit 10 feet of horizontal distance, a 5 percent slope shall be provided to an approved alternative method of diverting water away from the foundation. Swales used for this purpose shall be sloped a minimum of 2 percent wherever located within 10 feet of the building foundation. Impervious surfaces (such as concrete flatwork) within 10 feet of the new foundation shall be sloped a minimum of 2 percent away from the building.

4.12 Landscaping Considerations

The potential for undesired foundation and slab movements may be reduced or minimized by following certain landscape practices. The main goal for proper landscape design should be to minimize fluctuations in the moisture content of the soils surrounding the structures. In addition to maintaining positive drainage, appropriate plant/tree selections and sprinkler/irrigation practices are extremely important to the long-term performance of the foundations and slabs. As a guideline to landscaping practices, we recommend the following measures:

- Planting flowers or shrubs within 5 feet of any perimeter wall or column foundation should not be allowed.
- Ground cover plants with low water requirements (or drought tolerant) may be acceptable for landscaping near foundations. Ground cover vegetation helps reduce fluctuations in the soil moisture content. Watering should be limited to the minimum needed to maintain the ground cover vegetation near foundations.
- As an alternative to ground cover vegetation, sealed-bottom planter boxes may be considered within 5 feet of building structures.
- Trees should not be planted within a minimum distance of 10 feet from any structural foundations.
- If irrigation/sprinkler systems are to be used, these should be installed all around the structure to provide uniform moisture throughout the year. The irrigation/sprinkler systems should spray no closer than 5 feet from the foundation. The sprinkler system should be checked for leakages once a month. Significant foundation movements can occur if the soils under the foundations are exposed to a source of free water.

4.13 Plans and Specifications Review

We recommend that Southwest Inspection & Testing be provided the opportunity to review of the grading and foundation plans, and the project specifications prior to construction bid in order to verify compatibility with site geotechnical conditions and to ensure that the recommendations presented in this report are properly interpreted and implemented in the plans and specifications. If we are not awarded this opportunity to

make this review, we will not assume any responsibility for misinterpretation of the recommendations presented in this report.

4.14 Observation, Tests during Grading

During excavation and grading for this project, geotechnical observations and field compaction tests shall be performed at the following stages:

- After removal of the onsite soils down to the recommended excavation depth;
- During grading for the building pads;
- During excavation and preparation for the foundation bottoms;
- During grading for soil subgrade for pavement, flatwork, site improvements around the building;
- During placement and compaction of base layer, asphalt for pavements, flatwork;
- During utility trench backfill; and
- Whenever any unusual or unexpected geotechnical conditions are encountered.

4.15 Limitations

This report is not authorized for use by, and is not to be relied upon by any party except, Los Angeles Unified School District; their design professionals for this project; and their successors and assignees as the owner of this property. Use of or reliance on this report by any other party is at that party's risk. Unauthorized use of or reliance on this report constitutes an agreement to defend and indemnify Southwest Inspection & Testing, Inc. from and against any liability which may arise as a result of such use or reliance.

Geotechnical investigation and relevant engineering evaluations for this project were performed in substantial conformance with the general practices of geotechnical engineering in southern California at the time of this report. No other warranty is expressed or implied.

5.0 REFERENCES

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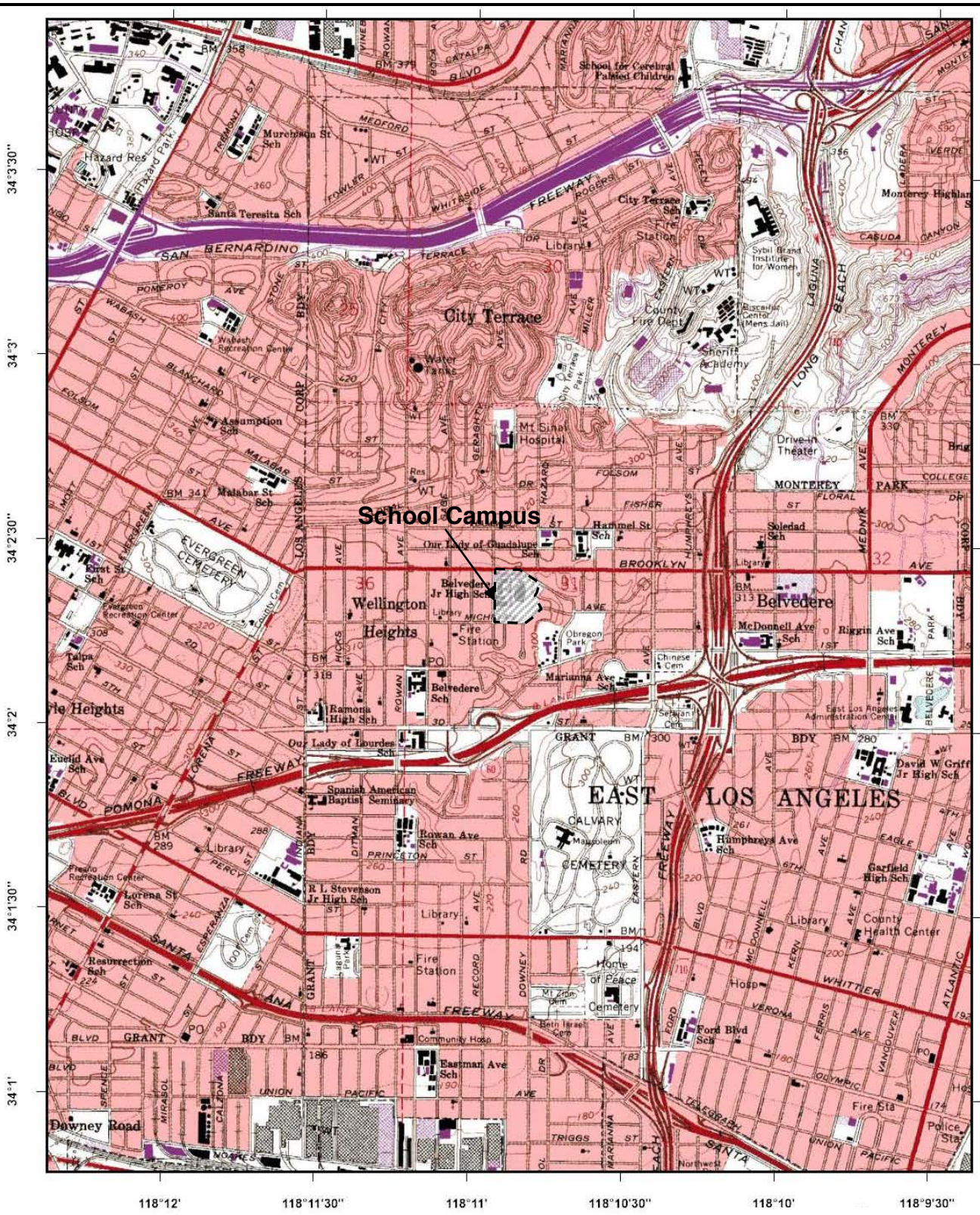

SITE COORDINATES:
Latitude: 34.0395°N
Longitude: 118.1816°W

Source: USGS Topographic Map, Los Angeles Quadrangle (1994)

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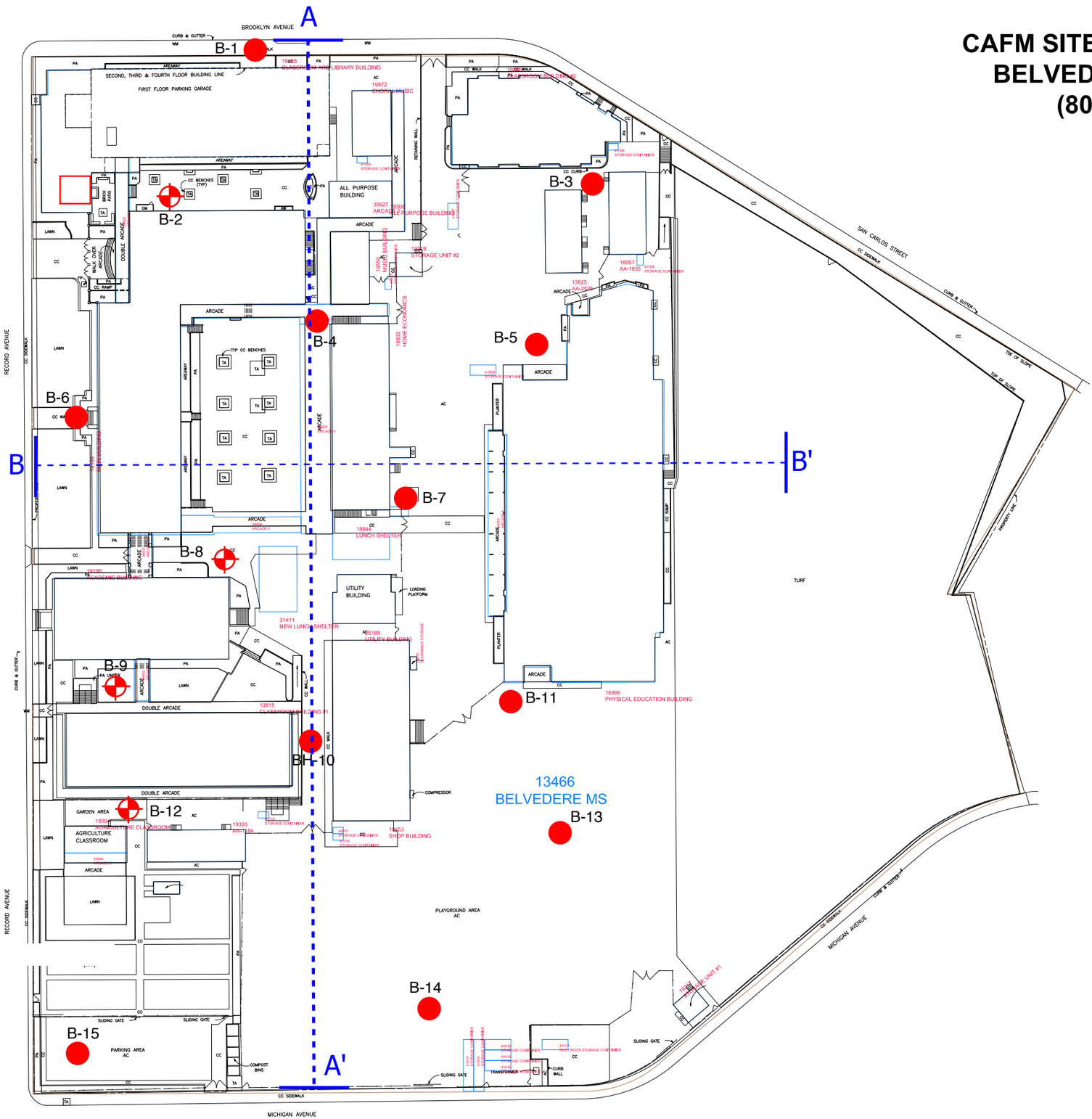
Figure 1 – Site Location Map

Belvedere Middle School
312 N. Record Avenue, Los Angeles, CA 90063

Southwest #170144

CAFM SITE ID - 13466
BELVEDERE MS
(8047)



LEGENDS :

B-12 — Hand Auger Bore Holes

B-15 — Hollow Stem Auger Bore Holes

B — B' Geologic Sections

Figure 2 - Site Plan & Field Exploration Map

SCALE: NTS

LOS ANGELES UNIFIED SCHOOL DISTRICT · BOARD OF EDUCATION

ASSET MANAGEMENT BRANCH
FACILITIES PLANS & RECORDS UNIT
333 S. BEAUDRY AVENUE, 23rd FLR, LOS ANGELES, CA 90017

PLOT PLAN

BELVEDERE MS
312 N RECORD AVE
LOS ANGELES, CA 90063

LEGEND

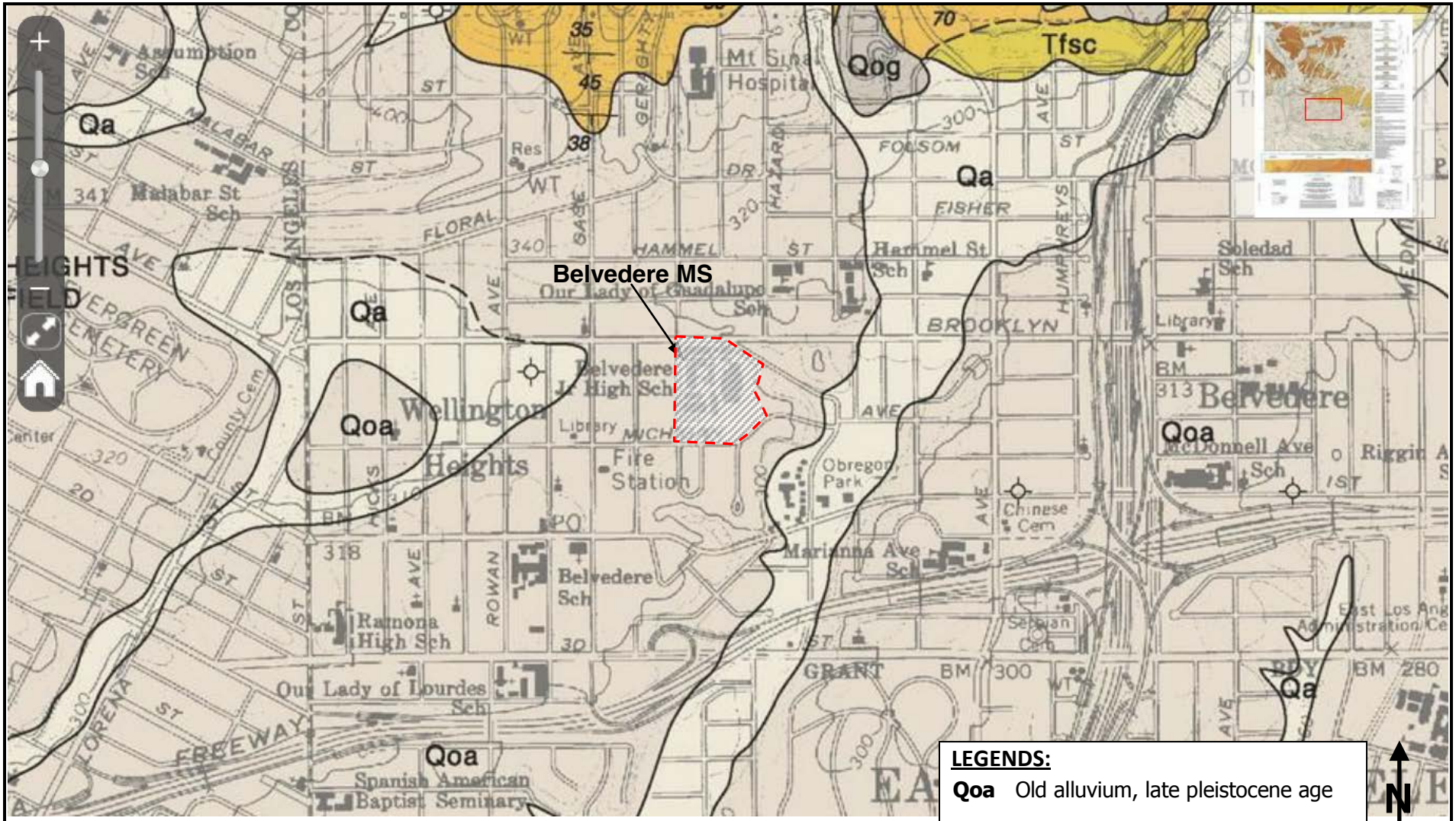
CENTER LINE	
PROPERTY LINE	
FENCE LINE	
RAILING OR SCREEN	
CHANGE IN GRADE	
ASPHALT CONCRETE	A.C.
CEMENT CONCRETE	C.C.
PLANTING AREA	P.A.
TREE AREA	☐ OR T.A.
DECOMPOSED GRANITE	D.G.
GAS METER	G.M.
WATER METER	W.M.
FLAGPOLE	F.P.
AREAWAY	A.W.
STUDENT BODY OWNED	S.B.O.
FIELD LIGHT STANDARD	⊕
SANDBOX	S.B.

LABEL GUIDE

93779 – SPACE CAFM ID
RR – DESCRIPTION
286 SF – AREA

19756 – BLDG CAFM ID
BUILDING G – BUILDING NAME

DRAWN BY	INDEX NO.
JGP	1/1
DATE	
1-11-2017	



LEGENDS:

Qoa Old alluvium, late pleistocene age

Qa Alluvial fan deposits, Holocene age

Reference: Dibblee Foundation Map DF-22, 1989, Geologic map of the Los Angeles Quadrangle, Los Angeles County, California.

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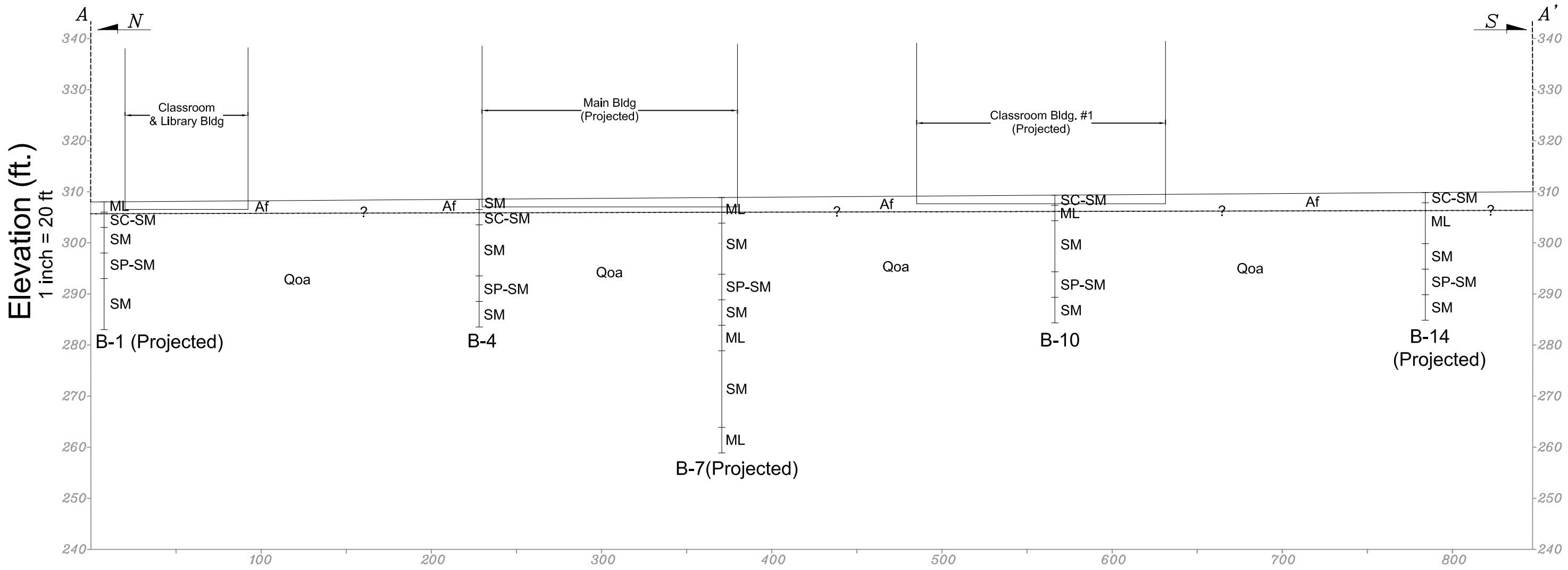
Figure 3 – Regional Geology Map

Belvedere Middle School
312 N. Record Avenue, Los Angeles, CA 90063

Southwest #170144



Distance along Section A - A' (ft.)

1 inch = 60 ft

Geology Legends:

Af - Fill Soils

Qoa - Old alluvium, late Pleistocene age

SM - Silty f-m Sand, trace of clay

SC-SM - Silty, clayey f-m Sand

ML - Sandy Silt w/ fine sand

SP - SM - Fine to coarse sand, few silts, few to some fine gravels.

10 0 20 40 60

SCALE IN FEET

1 Inch = 60ft.

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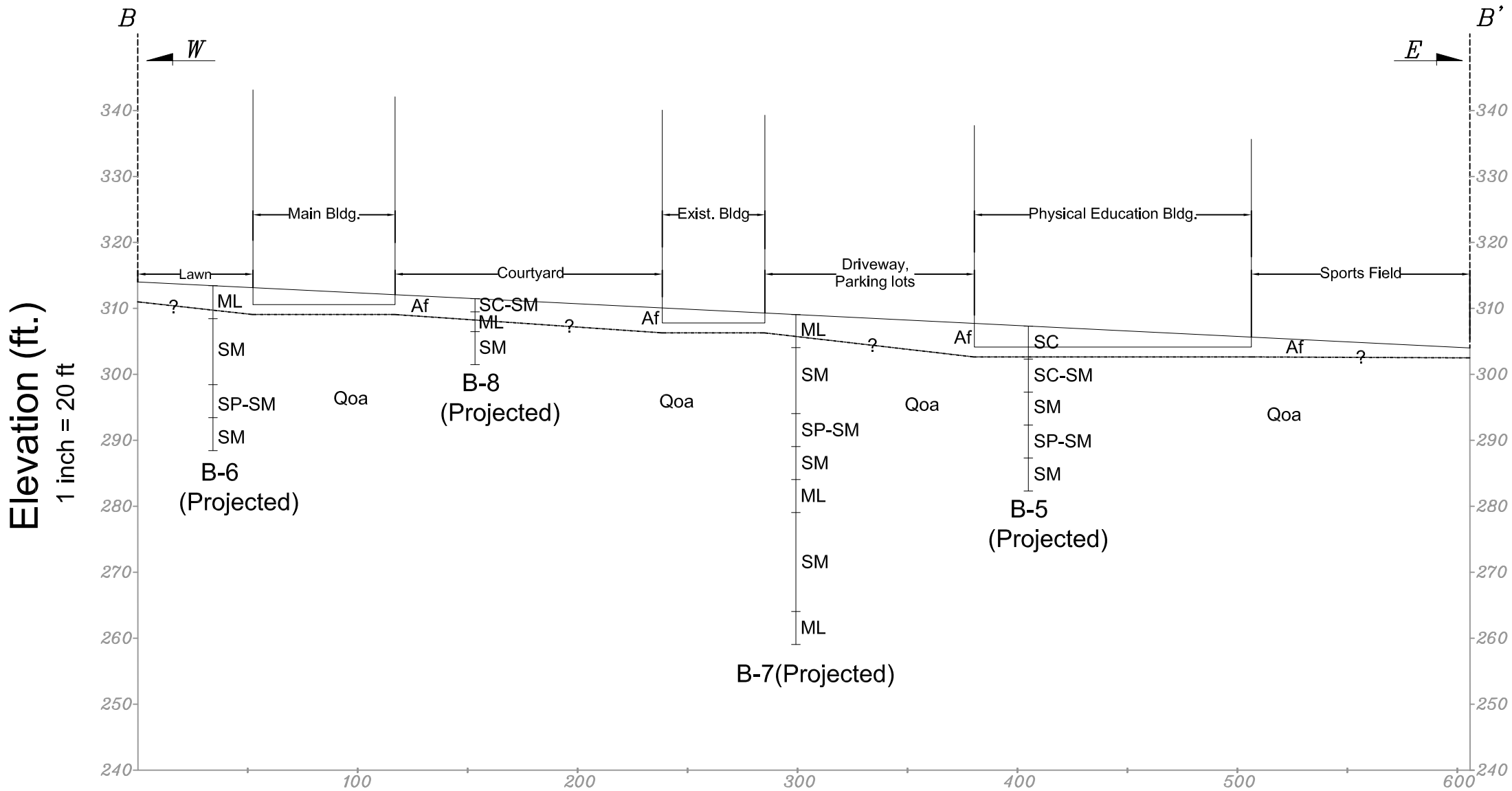
Figure 4a - Geological Cross-Section A-A´

Belvedere Middle School

312 N. Record Avenue, Los Angeles, CA 90063

Southwest # 170144



Distance along Section B - B' (ft.)

1 inch = 60 ft

Geology Legends:

Af - Fill Soils

Qoa - Old alluvium, late Pleistocene age

SM - Silty f-m Sand, trace of clay

SC-SM - Silty, clayey f-m Sand

SC - Clayey f-m Sand

ML - Sandy Silt w/ fine sand

SP - SM - Fine to coarse sand, few silts, few to some fine gravels.

10 0 20 40 60

SCALE IN FEET

1 Inch = 60ft.

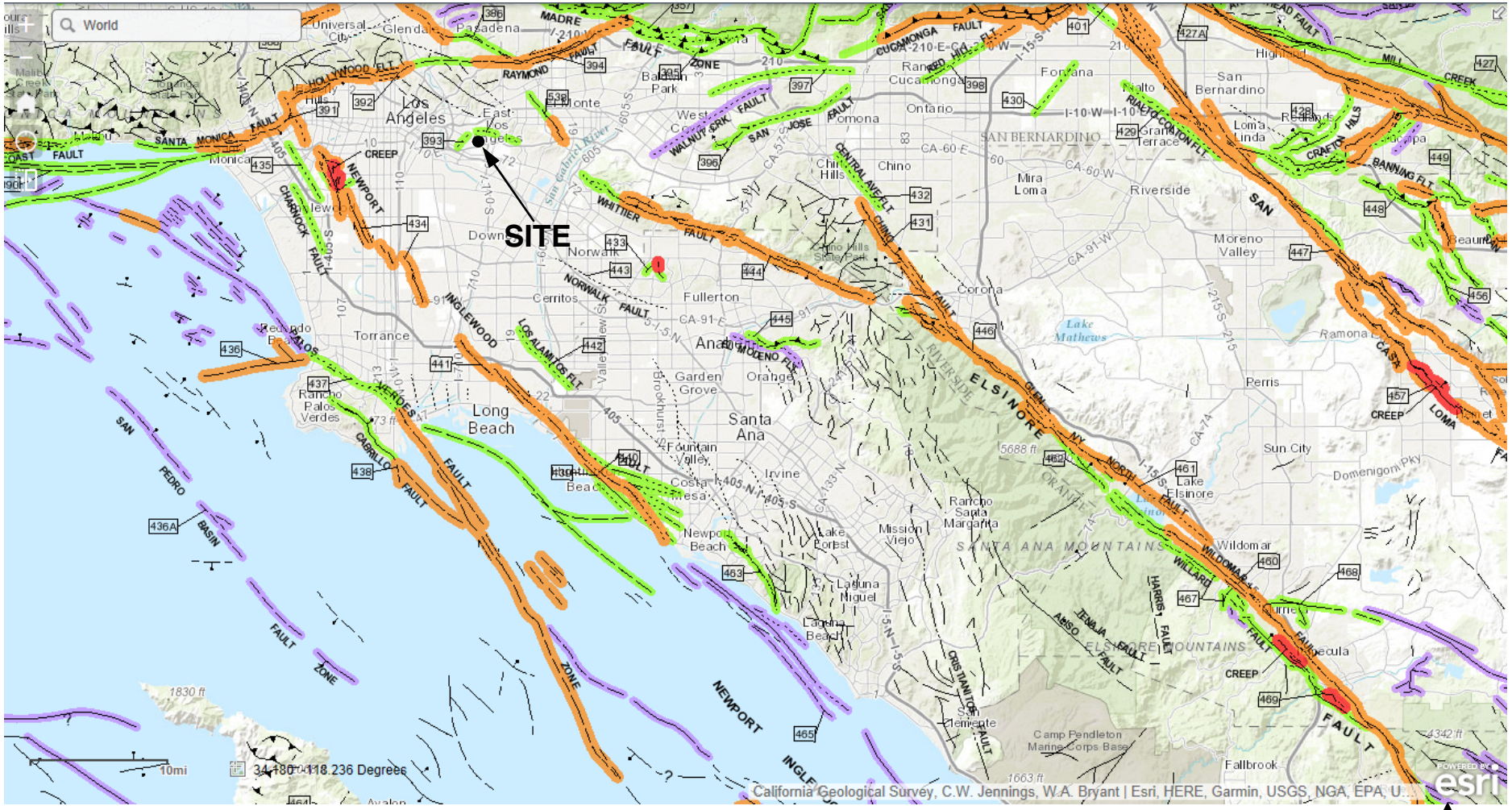
SOUTHWEST Inspection & Testing, Inc.

Figure 4b - Geological Cross-Section B-B´

Belvedere Middle School

312 N. Record Avenue, Los Angeles, CA 90063

Southwest # 170144



Reference: California Geological Survey Pub. No. GDM 6, 2010, Fault Activity Map of California, prepared by Jennings, C.W., and Bryant, W.A.

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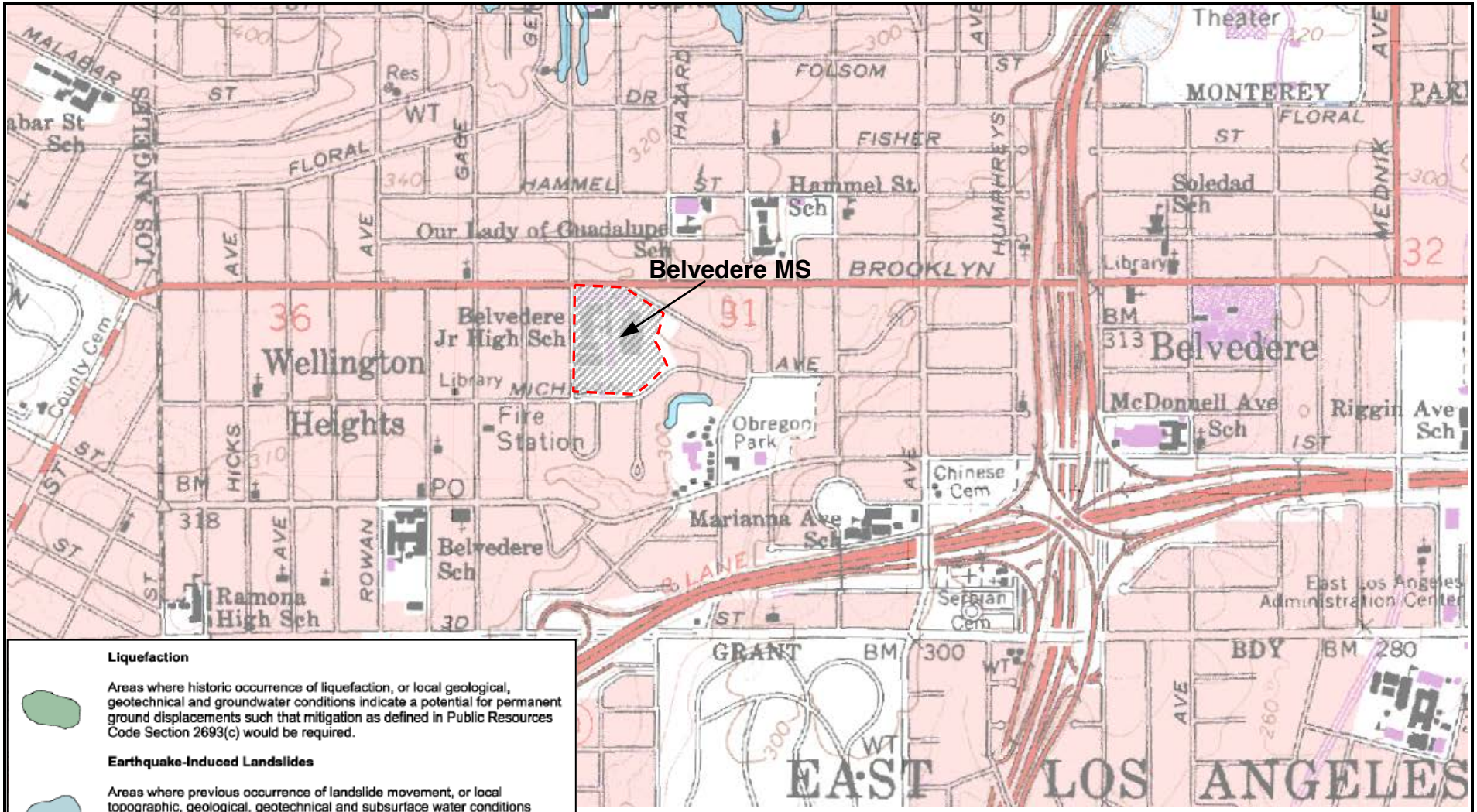
Figure 5 – Regional Fault Map

Belvedere Middle School
312 N. Record Avenue, Los Angeles, CA 90063

Southwest #170144



Source: State of California Seismic Hazard Zones Map for Los Angeles Quadrangle, released on 3/25/1999.

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Figure 6 – Seismic Hazard Zones Map

Belvedere Middle School
312 N. Record Avenue, Los Angeles, CA 90063

Southwest #170144

APPENDIX A

Field Exploration Logs

SOUTHWEST
Inspection & Testing, Inc.
Continuous Inspection & Materials Testing
441 Commercial Way, La Habra, CA 90631-6168
(562) 941-2990 • (714) 526-8441
FAX (562) 946-0026

DRILLING DATE: 4/12/17 DRILLING METHOD: CME-75 Truck Mounted Drilling Rig; 8" Dia. Hollow Stem Auger

LOGGED BY: LA ELEVATION: ~308 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-1**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered w/ 4" concret over 4" base.	
2	R-1	40				13.8	111.5	**Fill (Af):** 0.66'- 3': Reddish brown sandy Silt (ML) w/ fine sand, little clay, moist.	
	B-1							**Alluvium (Qoa):**	
5	R-2	33				16.6	107.3	@ 5': Light brown silty, clayey fine Sand (SC-SM), some fine gravel, moist.	
10	R-3	53				3.6	113.6	@ 10': Light brown silty fine to med. Sand (SM), some fine gravel, slightly moist.	
15	S-1	55						@ 15': Light brown fine to coarse Sand (SP-SM) w/ few silts, some fine gravel, slightly moist.	
20	S-2	82						@ 20': Light brown silty med. to coarse Sand (SM) w/ less silts, some fine gravel, moist.	
25	S-3	56						'@ 25': Lt. brown silty fine to coarse Sand (SM), some fine gravels, moist.	
								- Depth of boring 25 feet below the existing grade. - Groundwater was not encountered. - Borehole was backfilled w/ excavated soil spoils on 4/12/17.	

SOUTHWEST #170144 **LOG OF BORE HOLE B-1**

SOUTHWEST
Inspection & Testing, Inc.
Continuous Inspection & Materials Testing
441 Commercial Way, La Habra, CA 90631-6168
(562) 941-2990 • (714) 526-8441
FAX (562) 946-0026

DRILLING DATE: 4/14/17 DRILLING METHOD: 6" Dia. Hand Auger w/ Drive sampler

LOGGED BY: LA ELEVATION: ~315 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-2**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered w/ 4" concrete over 4" base.	
2	R-1		◢		X	11.2	91.6	**Fill (Af):** 0.66'- 3': Light brown silty, clayey fine Sand (SC-SM), moist.	
	B-1				X			**Alluvium (Qoa):**	
5	R-2		◢		X	9.6	90.0	@ 5': Same as above.	
								- Silty fine Sand (SM) at ~7 ft.	
10	R-3		◢			6.5	99.2	@ 10': Light brown silty fine Sand (SM) w/ few fine gravel, slightly moist to moist.	
								- Depth of boring 10 feet below the existing grade. - Groundwater was not encountered. - Borehole was backfilled w/ excavated soil spoils on 4/14/17.	

SOUTHWEST #170144 **LOG OF BORE HOLE B-2**

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441 Commercial Way, La Habra, CA 90631-6168
(562) 941-2990 • (714) 526-8441
FAX (562) 946-0026

DRILLING DATE: 4/12/17 DRILLING METHOD: CME-75 Truck Mounted Drilling Rig; 8" Dia. Hollow Stem Auger

LOGGED BY: LA ELEVATION: ~307 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-3**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered with 4" asphalt over 4" base	
2	R-1	75	⁄			10.8	110.2	**Fill (Af):** 0.66'- 2': Light brown silty clayey f-m Sand (SC-SM).	
								Alluvium (Qoa): @ 2': Lt. brown silty, clayey f-c Sand (SC-SM)	
5	R-2	68	⁄			16.3	106.8	@ 5': Same as above.	
10	R-3	41	⁄			17.6	90.5	@ 10': Light brown sandy Silt (ML) w/ fine sand, some fine gravel, moist.	
15	S-1	50		X				@ 15': Light brown silty Sand (SM) with some fine gravel, moist.	
20	S-2	41		X				@ 20': Light brown fine to coarse sand (SP-SM), few silts, some fine gravel, slightly moist.	
25	S-3	58		X				'@ 25': Light brown silty fine to medium Sand (SM) w/ some gravels, moist.	
								- Depth of boring 25 feet below the existing grade. - Groundwater was not encountered. - Borehole was backfilled w/ excavated soil spoils on 4/12/17.	

SOUTHWEST #170144 **LOG OF BORE HOLE B-3**

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FAX (562) 946-0026

DRILLING DATE: 4/12/17 DRILLING METHOD: CME-75 Truck Mounted Drilling Rig; 8" Dia. Hollow Stem Auger

LOGGED BY: LA ELEVATION: ~312 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-4**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered with 4" concrete over 4" base.	
2	R-1	76	☒		☒	11.2	113.8	**Fill (Af):** 0.66'- 2': Reddish brown silty fine Sand (SM), little clay.	Corrosion Series
	B-1							**Alluvium (Qoa):** @3': Lt. brown silty, clayey fine Sand (SC-SM).	
5	R-2	50(5")	☒		☒	6.3	120.7	@ 5': Top 6": Light brown silty clayey fine Sand (SC-SM) Btm 6": Light brown fine to coarse Sand (SM) w/ less silts, some fine gravel, moist.	
10	R-3	50(4")	☒			9.1	119.6	@ 10': Light brown silty fine to medium Sand (SM) w/ trace of clay, moist.	
15	S-1	82		☒				@ 15': Same as above w/ some fine gravel. moist.	
20	S-2	79		☒				@ 20': Light brown silty fine to coarse Sand (SP-SM), few silts, few fine gravel, slightly moist.	
25	S-3	50(4")		☒				'@ 25': Lt. brown silty f-m Sand (SM), some fine gravel, moist.	
								- Depth of boring 25 feet below the existing grade. - Groundwater was not encountered. - Borehole was backfilled with the excavated soil spoils on 4/12/17.	

SOUTHWEST #170144 **LOG OF BORE HOLE B-4**

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FAX (562) 946-0026

DRILLING DATE: 4/12/17 DRILLING METHOD: CME-75 Truck Mounted Drilling Rig; 8" Dia. Hollow Stem Auger

LOGGED BY: LA ELEVATION: ~308 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-5**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered with 4" asphalt over 4" base.	
2	R-1	25	◢		X	17.3	108.2	**Fill (Af):** 0.66'- 3': Brown clayey fine Sand (SC), moist.	Max. Density
	B-1								
								Alluvium (Qoa):	
5	R-2	32	◢		X	14.4	112.8	@ 5': Light brown clayey fine to medium Sand (SC), moist.	Direct Shear
10	R-3	38	◢			16.6	107.9	@ 10': Light brown silty, clayey f-m Sand (SC-SM), moist.	
15	S-1	37		X				@ 15': Light brown silty fine to medium Sand (SM) w/ few fine gravels, moist.	
20	S-2	53		X				@ 20': Grayish brown medium to coarse Sand (SP-SM)) w/ some fine gravels, slightly moist.	
25	S-3	54		X				@ 25': Light brown silty fine to coarse sand (SM) w/ less silts, moist.	
								- Depth of boring 25 feet below the existing grade. - Groundwater was not encountered. - Borehole was backfilled w/ excavated soil spoils on 4/12/17.	

SOUTHWEST #170144 **LOG OF BORE HOLE B-5**

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FAX (562) 946-0026

DRILLING DATE: 4/12/17 DRILLING METHOD: CME-75 Truck Mounted Drilling Rig; 8" Dia. Hollow Stem Auger

LOGGED BY: LA ELEVATION: ~314 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-6**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered with 4" concrete over 4" base.	
2	R-1	44	◢		X	26.2	106.0	**Fill (Af):** 0.66' - 2': Reddish brown sandy Silt (ML) w/ little clay, moist	
	B-1				X				
								Alluvium (Qoa):	
5	R-2	57	◢		X	13.0	121.1	@ 5': Light brown sandy Silt (ML) w/ fine sand, little clay, few fine gravel, moist.	
10	R-3	35	◢			14.0	108.0	@ 10': Light brown silty f-m Sand (SM) w/ some fine gravel, moist.	Direct Shear
15	S-1	41		X				@ 15': Light brown silty f-m Sand (SM), little clay, moist.	
20	S-2	52		X				@ 20': Light brown silty f-m Sand (SP-SM), few fine gravel, slightly moist.	
25	S-3	50		X				@ 25': Grayish brown f-m Sand (SM) w/ little clay and some fine gravels, moist.	

- Depth of boring 25 feet below the existing grade.
- Groundwater was not encountered.
- Borehole was backfilled w/ excavated soil spoils on 4/12/17.

SOUTHWEST #170144 **LOG OF BORE HOLE B-6**

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FAX (562) 946-0026

DRILLING DATE: 4/13/17 DRILLING METHOD: CME-75 Truck Mounted Drilling Rig; 8" Dia. Hollow Stem Auger

LOGGED BY: LA ELEVATION: ~308 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-7**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered with 4" asphalt over 4" base	
2	R-1	47	⁄		X	13.1	120.7	**Fill (Af):** 0.66'- 3': Light brown sandy Silt w/ fine sand (ML), few fine gravel, moist.	Expansion Index
	B-1							**Alluvium (Qoa):**	
5	R-2	46	⁄			16.1	110.0	@ 5': Light brown sandy Silt w/ fine sand (ML), moist, 53.1% fines.	Percent Fines
10	R-3	33	⁄			12.1	108.2	@ 10': Light brown silty fine Sand (SM), moist.	
15	S-1	32		X				@ 15': Light brown silty fine sand (SM) w/ less silts, some fine gravel, moist, 16.2% fines.	Percent Fines
20	S-2	52		X				@ 20': Light brown med. to coarse Sand (SP-SM) w/ few silts, some fine gravels, slightly moist, 8.6% fines.	Percent Fines
25	S-3	50(4")		X				@ 25': Light brown silty fine to meium Sand (SM), moist.	
30	S-4	50(5")		X				@ 30': Light brown sandy Silt (ML) w/ fine sand, moist, 61.8% fines.	Percent Fines
35	S-5	50(4")		X				@ 35': Light brown silty fine to med. Sand (SM) w/ some fine gravels, moist.	

SOUTHWEST #170144 **LOG OF BORE HOLE B-7**

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(562) 941-2990 • (714) 526-8441
FAX (562) 946-0026

DRILLING DATE: 4/13/17 DRILLING METHOD: CME-75 Truck Mounted Drilling Rig; 8" Dia. Hollow Stem Auger

LOGGED BY: LA ELEVATION: ~308 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-7**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
40	S-6	50(5")		X				@ 40: Light brown silty fine Sand (SM), moist, 44.8% fines.	Percent Fines
45	S-7	40		X				@ 45': Same as above.	
50	S-8	50(4")		X				@ 50': Brown sandy Silt (ML) w/ fine sand, trace clay, moist, 53.4% fines.	Percent Fines
								- Depth of boring 50 feet below the existing grade. - Groundwater was not encountered. - Borehole was backfilled with the excavated soil spoils and surface patched w/ rapid set concrete, dyed black on top on 4/13/17	

SOUTHWEST #170144 **LOG OF BORE HOLE B-7**

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FAX (562) 946-0026

DRILLING DATE: 4/14/17 DRILLING METHOD: 6" Dia. Hand Auger w/ Drive sampler

LOGGED BY: LA ELEVATION: ~312 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-8**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered with 4" concret over 4" base.	
2	R-1		◢		X	12.5	118.3	**Fill (Af):** 0.66'- 3': Brown silty, clayey fine Sand (SC-SM), moist.	
	B-1				X				
					X			**Alluvium (Qoa):** @ 3': Lt. brown sandy Silt (ML) w/ fine	
5	R-2		◢		X	14.2	100.8	sand, trace clay, moist.	
								@ 7': Brown silty f-m Sand (SM), moist.	
								- Gradually more sandy with depth.	
10	R-3		◢			7.4	100.1	@ 10': Brown silty f-m Sand (SM) w/ less silts, moist.	
								- Depth of boring 10 feet below the existing grade.	
								- Groundwater was not encountered.	
								- Borehole was backfilled w/ excavated soil spoils on 4/14/17.	

SOUTHWEST #170144 **LOG OF BORE HOLE B-8**

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FAX (562) 946-0026

DRILLING DATE: 4/14/17 DRILLING METHOD: 6" Dia. Hand Auger w/ Drive sampler

LOGGED BY: LA ELEVATION: ~315 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-9**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered w/ landscaped grass, topsoils ~3 in.	
2	R-1		◢		X	14.7	111.4	**Fill (Af):** 0.25' - 3': Lt. brown silty, clayey fine Sand (SC-SM), moist.	
	B-1				X				
					X			**Alluvium (Qoa):** @ 3'- 7': Brown sandy Silt (ML) w/ fine sand,	
5	R-2		◢		X	15.5	110.8	little clay, moist.	
								- Gradually less fines with depth.	
								@ 7' - 10': Light brown silty fine to med. Sand (SM), trace clay, moist.	
10	R-3		◢			11.1	97.0		
								- Depth of boring 10 feet below the existing grade.	
								- Groundwater was not encountered.	
								- Borehole was backfilled w/ excavated soil spoils on 4/14/17.	

SOUTHWEST #170144 **LOG OF BORE HOLE B-9**

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441 Commercial Way, La Habra, CA 90631-6168
(562) 941-2990 • (714) 526-8441
FAX (562) 946-0026

DRILLING DATE: 4/13/17 DRILLING METHOD: CME-75 Truck Mounted Drilling Rig; 8" Dia. Hollow Stem Auger

LOGGED BY: LA ELEVATION: ~311 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-10**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered with 4" asphalt over 4" base	
2	R-1	36	⟋		X	9.0	119.3	**Fill (Af):** 0.66'- 3': Reddish brown silty, clayey fine Sand (SC-SM), moist.	Expansion Index
	B-1				X				
								Alluvium (Qoa):	
5	R-2	31	⟋		X	14.1	119.3	@ 5': Light brown sandy Silt (ML) w/ fine sand, little clay, moist.	
10	R-3	35	⟋			16.1	107.8	@ 10': Light brown silty fine Sand (SM) w/ some clay, moist.	
15	S-1	20		X				@ 15':Light brown silty fine Sand (SM), moist.	
20	S-2	50(4")		X				@ 20': Light brown fine to coarse Sand (SP-SM) w/ few silts, few fine gravels, slightly moist.	
25	S-3	50(5")		X				@ 25': Light brown silty fine to coarse Sand (SM) w/ less silts, some fine gravels, moist.	

- Depth of boring 25 feet below the existing grade.
- Groundwater was not encountered.
- Borehole was backfilled w/ excavated soil spoils on 4/13/17.

SOUTHWEST #170144 **LOG OF BORE HOLE B-10**

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FAX (562) 946-0026

DRILLING DATE: 4/13/17 DRILLING METHOD: CME-75 Truck Mounted Drilling Rig; 8" Dia. Hollow Stem Auger

LOGGED BY: LA ELEVATION: ~307 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-11**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered with 4" asphalt over 4" base	
2	R-1	25	⁄			14.0	111.2	**Fill (Af):** 0.66'-3': Reddish brown silty, clayey fine Sand (SC-SM), moist.	
								Alluvium (Qoa):	
5	R-2	32	⁄			12.4	114.0	@ 5': Light brown sandy Silt (ML) w/ fine sand, little clay, moist.	
10	R-3	42	⁄			16.0	111.3	@ 10': Light brown silty, clayey fine Sand (SC-SM), moist.	
15	S-1	40		X				@ 15': Light brown silty f-m Sand (SM) w/ some fine gravels, trace of clay, moist.	
20	S-2	48		X				@ 20': Light brown fine to medium Sand (SP-SM) w/ few silts, slightly moist.	
25	S-3	50(4")		X				'@ 25': Light brown silty f-m Sand (SM), trace of clay, moist.	
								- Depth of boring 25 feet below the existing grade. - Groundwater was not encountered. - Borehole was backfilled w/ excavated soil spoils on 4/13/17.	

SOUTHWEST #170144 **LOG OF BORE HOLE B-11**

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DRILLING DATE: 4/14/17 DRILLING METHOD: 6" Dia. Hand Auger w/ Drive sampler

LOGGED BY: LA ELEVATION: ~312 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-12**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Landscape area covered with grass, topsoils ~3 in.	
2	R-1		◢		X	12.1	85.0	**Fill (Af):** 0.25' - 2': Lt. brown silty, clayey fine Sand (SC-SM).	
	B-1				X			**Alluvium (Qoa):** 3' - 7': Light brown silty, clayey fine Sand (SC-SM), moist.	
5	R-2		◢		X	7.8	89.8	- Gradually less clayey with depth.	
								@ 7' - 10': Light brown silty f-m sand (SM) w/ trace clay, moist.	
10	R-3		◢			7.3	88.6		
								- Depth of boring 10 feet below the existing grade. - Groundwater was not encountered. - Borehole was backfilled w/ excavated soil spoils on 4/14/17.	

SOUTHWEST #170144 **LOG OF BORE HOLE B-12**

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FAX (562) 946-0026

DRILLING DATE: 4/13/17 DRILLING METHOD: CME-75 Truck Mounted Drilling Rig; 8" Dia. Hollow Stem Auger

LOGGED BY: LA ELEVATION: ~306 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-13**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered with 4" asphalt over 4" base	
2	R-1	26	⁄		X	13.3	112.6	**Fill (Af):** 0.66'- 3': Light brown silty, clayey fine Sand (SC-SM),	Corrosion Series
	B-1				X				
								Alluvium (Qoa):	
5	R-2	34	⁄		X	27.7	91.5	@ 5': Light brown sandy Silt (ML) w/ fine sand, little clay, moist.	
10	R-3	36	⁄			12.7	114.4	@ 10': Same as above.	
15	S-1	40		X				@ 15': Light brown silty f-m Sand (SM) w/ less silts, trace clay, some gravel (up to 1"), moist.	
20	S-2	75		X				@ 20': Grayish brown silty f-m Sand (SM), few fine gravel, moist.	
25	S-3	32		X				@ 25': Light brown Sandy Silt (ML) w/ fine sand, moist.	
								- Depth of boring 25 feet below the existing grade. - Groundwater was not encountered. - Borehole was backfilled w/ excavated soil spoils on 4/13/17.	

SOUTHWEST #170144 **LOG OF BORE HOLE B-13**

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FAX (562) 946-0026

DRILLING DATE: 4/13/17 DRILLING METHOD: CME-75 Truck Mounted Drilling Rig; 8" Dia. Hollow Stem Auger

LOGGED BY: LA ELEVATION: ~309 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-14**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered with 4" asphalt over 4" base	
2	R-1	50	⁄		X	16.9	115.1	**Fill (Af)**: 0.66' - 3': Lt. brown silty, clayey fine Sand (SC-SM), moist.	Max. Density
	B-1				X				
								Alluvium (Qoa):	
5	R-2	56	⁄		X	16.8	106.4	@ 5': Light brown sandy Silt (ML) w/ fine sand, some clay, moist.	
10	R-3	53	⁄			17.6	106.8	@ 10': Same as above.	
15	S-1	28		X				@ 15': Light brown silty fine Sand (SM), little clay, moist.	
20	S-2	50(5")		X				@ 20': Yellowish brown fine to coarse Sand (SP-SM), few silts, some fine gravel, slightly moist.	
25	S-3	57		X				'@ 25': Grayish brown silty fine to coarse Sand (SM), some fine gravel, moist.	

- Depth of boring 25 feet below the existing grade.
- Groundwater was not encountered.
- Borehole was backfilled w/ excavated soil spoils on 4/13/17.

SOUTHWEST #170144 **LOG OF BORE HOLE B-14**

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Continuous Inspection & Materials Testing
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FAX (562) 946-0026

DRILLING DATE: 4/13/17 DRILLING METHOD: CME-75 Truck Mounted Drilling Rig; 8" Dia. Hollow Stem Auger

LOGGED BY: LA ELEVATION: ~311 ft LOCATION: See Fig. 2, Site Plan & Field Exploration Map

MODERNIZATIONS AT BELVEDERE MIDDLE SCHOOL
312 N. RECORD AVENUE, LOS ANGELES, CA 90063

BORE HOLE NO. **B-15**

DEPTH (FEET)	SAMPLE NUMBER	BLOWS/FOOT	RING SAMPLE	SPT SAMPLE	BULK SAMPLE	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	SOIL DESCRIPTION	SOIL TEST
								Surface covered w/ 4" asphalt over 4" base	
2	R-1	56	◢		X	12.2	125.1	**Fill (Af):** 0.66'- 2': Brown sandy Silt (ML) w/ fine sand, moist.	
	B-1				X			**Alluvium (Qoa):**	
5	R-2	85	◢		X	3.4	124.8	@ 5': Lt. brown silty fine Sand (SM) w/ trace clay, some fine gravel, slightly moist.	
10	R-3	59	◢			9.4	123.9	@ 10': Light brown silty fine to med. Sand (SM), less silts than above, moist.	
15	S-1	50(4")		☒				@ 15': Light brown med. to coarse Sand (SP-SM) w/ few silts, few fine gravel, slightly moist.	
20	S-2	28		☒				@ 20': Same as above w/ more fine gravel.	
25	S-3	50(5")		☒				@ 25': Light Brown silty fine to medium Sand (SM) w/ less silts, few fine gravel, moist.	
								- Depth of boring 25 feet below the existing grade. - Groundwater was not encountered. - Borehole was backfilled w/ excavated soil spoils on 4/13/17.	

SOUTHWEST #170144 **LOG OF BORE HOLE B-15**

APPENDIX B

Laboratory Test Procedures and Test Results

Laboratory Test Procedures and Test Results

We retained services from Cal Land Engineering, Inc. for pH, sulfate content, chloride content, and consolidation tests. All the remaining tests were performed in our laboratory. Brief description of the laboratory test procedures and test results are presented hereafter.

Field Moisture and Density: Field moisture contents and dry densities of subsurface soils at selected depths were determined from the ring samples in general accordance with the ASTM Test Methods D2216 and D7263, respectively. Test results are attached in the appendix and also, presented in the field exploration logs (Appendix A).

Percent Fines (< No. 200): Selected soil samples were wash sieved through a No. 200 U.S. Standard brass sieve in accordance with the ASTM Test Method D1140 in order to determine the percent fines (silt and clay). Test results are presented in this appendix and are summarized in the table below.

Sample Location	Soil Description	Percent Finer than No. 200 Sieve
B-7 @ 5 ft.	Sandy Silt w/ fine sand (ML)	53.1
B-7 @ 15 ft.	Silty fine Sand (SM) w/ little silts, some fine gravel	16.2
B-7 @ 20 ft.	Fine to coarse Sand (SP-SM), few silts	8.6
B-7 @ 30 ft.	Sandy Silt w/ fine sand, trace clay (ML)	61.8
B-7 @ 40 ft.	Silty fine Sand (SM)	44.8
B-7 @ 50 ft.	Sandy Silt w/ fine sand (ML), trace clay	53.4

Expansion Index: Expansion Index (EI) tests were performed on two (2) representative bulk samples, taken from shallow depths within the project campus area, in accordance with the ASTM Standard D4829. Test results are summarized in the following table and also, presented in this appendix.

Sample Location	Soil Description	Expansion Index	Expansion Potential
B-7 @ 0 – 5 ft.	Sandy Silt (ML) w/ fine sand, few fine gravel	0	Very Low
B-10 @ 0 – 5 ft.	Silty, clayey fine Sand (SC-SM) to sandy Silt (ML) w/ fine sand	0	Very Low

Maximum Density: Maximum dry density and optimum moisture content of representative bulk soil samples, taken from shallow depths within the building footprint area, were determined in accordance with the ASTM Test Method D1557. Test results are summarized in the following table and a graphical plots of *Dry Density vs. Water Content* are attached in this appendix.

Sample Location	Soil Description	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
B-5 @ 0 – 5 ft.	Clayey fine Sand (SC)	127.0	8.7
B-14 @ 0 – 5 ft.	Silty, clayey fine Sand (SC-SM)	125.9	9.8

Direct Shear: Direct shear tests under consolidated drained condition were performed on selected relatively undisturbed ring samples in general accordance with the ASTM Standard D3080. The samples were soaked for a minimum of 24 hours under a surcharge equal to the applied normal force during testing. Samples and specimens were then transferred to the shear box, reloaded, and pore pressures set up in the sample (due to transfer) were allowed to dissipate for a period of approximately one-hour. Following pore pressure dissipation, samples were subjected to shearing forces. The samples were tested under various normal loads by a motor-driven, strain-controlled, direct-shear testing apparatus at a strain rate of 0.05 inches per minute. Shear deformation was recorded until about 0.25 inches of shear displacement was achieved. Ultimate strength was selected from the shear-stress deformation data and plotted to determine the shear strength parameters. Test results are summarized and presented graphically on the *Direct Shear* figures in this appendix.

Consolidation/Collapse Potential: Consolidation tests were performed on a selected ring sample, taken from shallow depth within the building footprint area. These samples were placed in a consolidometer and loads were applied in geometric progression. The percent consolidation for each load cycle was recorded as the ratio of the amount of vertical compression to the original 1-inch height. Collapse potential of the tested sample was evaluated by inundating the test sample at

a target normal pressure, which is on the order of the anticipated maximum bearing demand of the proposed building structure. Consolidation and collapse potential test results are presented graphically on a *Deformation vs. Compressive Stress* plot in this appendix.

Sulfate Content, Chloride Content, pH and Minimum Resistivity: Corrosion evaluation tests comprising of sulfate content, chloride content, pH and minimum resistivity determinations were conducted on two (2) representative bulk soil samples taken from shallow depths within the project area. These tests were performed in general accordance with California Test Methods 417, 422, and 643. The test results are summarized in the following table.

Sample Location	Soil Description	pH	Sulfate (% by wt.)	Chloride (ppm)	Min. Resistivity (ohm-cm)
B-4 @ 0 - 5 ft.	Silty Sand (SM) to silty, clayey Sand (SC-SM) w/ fine sand	9.40	0.012	52	1,700
B-13 @ 0 - 5 ft.	Silty, clayey fine Sand (SC-SM)	8.65	0.009	46	2,000

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Continuous Inspection & Materials Testing
441 Commercial Way, La Habra, CA 90631-6168
(562) 941-2990 • (714) 526-8441
FAX (562) 946-0026

Project Name : LAUSD - Belvedere Middle School Modernization
Project Number : 170144
Date Sampled: 04/12/17 Date Tested : 04/17/17 Lab Technician : Matt Flores Sampled By: LA

Field Moisture & Density (ASTM D2216 & D2937)

Boring Location	Depth (ft)	Wet weight (g) Sample + Ring	Ring Wt. (g)	Sample weight (g)	Wet Density (pcf)	Wet wt. (g) sample + Cup	Cup Wt. (g)	Wet wt. Sample (g)	Dry wt (g) Sample + cup	Dry sample weight (g)	Moisture Content(g)	Percent Moisture (%)	Dry Density (pcf)
B-1	**2'**	191.6	44.0	147.6	126.9	62.0	14.3	47.7	56.2	41.9	5.8	**13.8**	**111.5**
	5'	189.8	44.4	145.4	125.1	62.3	14.5	47.8	55.5	41.0	6.8	**16.6**	**107.3**
	10'	181.6	44.8	136.8	117.7	80.8	14.8	66.0	78.5	63.7	2.3	**3.6**	**113.6**
B-2	**2'**	164.5	46.1	118.4	101.8	66.7	14.2	52.5	61.4	47.2	5.3	**11.2**	**91.6**
	5'	157.4	42.7	114.7	98.7	71.7	14.7	57.0	66.7	52.0	5.0	**9.6**	**90.0**
	10'	164.4	41.5	122.9	105.7	74.7	14.4	60.3	71.0	56.6	3.7	**6.5**	**99.2**
B-3	**2'**	207.1	65.1	142	122.1	88.2	14.6	73.6	81.0	66.4	7.2	**10.8**	**110.2**
	5'	186.8	42.3	144.5	124.3	69.1	14.3	54.8	61.4	47.1	7.7	**16.3**	**106.8**
	10'	167.0	43.2	123.8	106.5	78.0	14.5	63.5	68.5	54.0	9.5	**17.6**	**90.5**
B-4	**2'**	192.1	45.0	147.1	126.5	64.1	14.5	49.6	59.1	44.6	5.0	**11.2**	**113.8**
	5'	192.0	42.8	149.2	128.3	70.0	14.6	55.4	66.7	52.1	3.3	**6.3**	**120.7**
	10'	192.9	41.3	151.6	130.4	66.4	14.6	51.8	62.1	47.5	4.3	**9.1**	**119.6**
B-5	**2'**	190.1	42.5	147.6	126.9	66.1	14.6	51.5	58.5	43.9	7.6	**17.3**	**108.2**
	5'	193.6	43.5	150.1	129.1	68.0	14.0	54.0	61.2	47.2	6.8	**14.4**	**112.8**
	10'	191.6	45.3	146.3	125.8	67.3	14.6	52.7	59.8	45.2	7.5	**16.6**	**107.9**

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Project Name : LAUSD - Belvedere Middle School Modernization
Project Number : 170144
Date Sampled: 04/12/17 Date Tested : 04/17/17 Lab Technician : Matt Flores Sampled By: LA

Field Moisture & Density (ASTM D2216 & D2937)

Boring Location	Depth (ft)	Wet weight (g) Sample + Ring	Ring Wt. (g)	Sample weight (g)	Wet Density (pcf)	Wet wt. (g) sample + Cup	Cup Wt. (g)	Wet wt. Sample (g)	Dry wt (g) Sample + cup	Dry sample weight (g)	Moisture Content(g)	Percent Moisture (%)	Dry Density (pcf)
B6	**2'**	197.5	42.0	155.5	133.7	69.9	14.5	55.4	58.4	43.9	11.5	**26.2**	**106.0**
	5'	201.6	42.5	159.1	136.8	70.5	14.8	55.7	64.1	49.3	6.4	**13.0**	**121.1**
	10'	206.3	63.1	143.2	123.2	67.7	14.9	52.8	61.2	46.3	6.5	**14.0**	**108.0**
B-7	**2'**	201.6	42.8	158.8	136.6	80.1	14.7	65.4	72.5	57.8	7.6	**13.1**	**120.7**
	5'	190.8	42.3	148.5	127.7	71.5	14.5	57.0	63.6	49.1	7.9	**16.1**	**110.0**
	10'	183.7	42.7	141	121.3	69.3	14.5	54.8	63.4	48.9	5.9	**12.1**	**108.2**
B-8	**2'**	197.9	43.1	154.8	133.1	68.3	14.4	53.9	62.3	47.9	6.0	**12.5**	**118.3**
	5'	177.3	43.4	133.9	115.2	81.0	14.3	66.7	72.7	58.4	8.3	**14.2**	**100.8**
	10'	167.3	42.3	125	107.5	69.3	14.2	55.1	65.5	51.3	3.8	**7.4**	**100.1**
B-9	**2'**	191.5	42.9	148.6	127.8	61.3	14.6	46.7	55.3	40.7	6.0	**14.7**	**111.4**
	5'	191.7	42.9	148.8	128.0	63.5	14.3	49.2	56.9	42.6	6.6	**15.5**	**110.8**
	10'	169.2	43.9	125.3	107.8	69.2	14.3	54.9	63.7	49.4	5.5	**11.1**	**97.0**
B-10	**2'**	195.7	44.6	151.1	130.0	69.2	14.5	54.7	64.7	50.2	4.5	**9.0**	**119.3**
	5'	200.0	41.8	158.2	136.1	68.9	14.6	54.3	62.2	47.6	6.7	**14.1**	**119.3**

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(562) 941-2990 • (714) 526-8441
FAX (562) 946-0026

Project Name : LAUSD - Belvedere Middle School Modernization
Project Number : 170144
Date Sampled: 04/12/17 Date Tested : 04/17/17 Lab Technician : Matt Flores Sampled By: LA

Field Moisture & Density (ASTM D2216 & D2937)

Boring Location	Depth (ft)	Wet weight (g) Sample + Ring	Ring Wt. (g)	Sample weight (g)	Wet Density (pcf)	Wet wt. (g) sample + Cup	Cup Wt. (g)	Wet wt. Sample (g)	Dry wt (g) Sample + cup	Dry sample weight (g)	Moisture Content(g)	Percent Moisture (%)	Dry Density (pcf)
B-10	**10'**	187.4	42.0	145.4	125.1	76.1	14.4	61.7	67.6	53.2	8.5	**16.0**	**107.8**
B-11	**2'**	189.6	42.1	147.5	126.9	67.4	14.6	52.8	60.9	46.3	6.5	**14.0**	**111.2**
	5'	192.3	43.4	148.9	128.1	68.0	14.4	53.6	62.1	47.7	5.9	**12.4**	**114.0**
	10'	193.9	43.8	150.1	129.1	62.5	14.7	47.8	55.9	41.2	6.6	**16.0**	**111.3**
B-12	**2'**	153.2	42.5	110.7	95.2	62.9	14.6	48.3	57.7	43.1	5.2	**12.1**	**85.0**
	5'	155.9	43.4	112.5	96.8	68.8	14.7	54.1	64.9	50.2	3.9	**7.8**	**89.8**
	10'	152.8	42.3	110.5	95.0	72.0	14.6	57.4	68.1	53.5	3.9	**7.3**	**88.6**
B-13	**2'**	190.0	41.7	148.3	127.6	67.5	14.7	52.8	61.3	46.6	6.2	**13.3**	**112.6**
	5'	178.7	42.8	135.9	116.9	66.5	14.4	52.1	55.2	40.8	11.3	**27.7**	**91.5**
	10'	193.4	43.5	149.9	128.9	72.1	14.3	57.8	65.6	51.3	6.5	**12.7**	**114.4**
B-14	**2'**	198.5	42.1	156.4	134.5	67.8	14.5	53.3	60.1	45.6	7.7	**16.9**	**115.1**
	5'	186.5	41.9	144.6	124.4	71.9	14.3	57.6	63.6	49.3	8.3	**16.8**	**106.4**
	10'	187.9	41.9	146	125.6	79.0	14.2	64.8	69.3	55.1	9.7	**17.6**	**106.8**
B-15	**2'**	205.3	42.1	163.2	140.4	71.2	14.3	56.9	65.0	50.7	6.2	**12.2**	**125.1**

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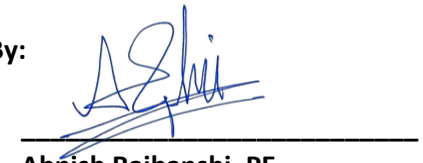
FAX (562) 946-0026

Project Name : LAUSD - Belvedere Middle School Modernization
Project Number : 170144
Date Sampled: 04/12/17 Date Tested : 04/17/17 Lab Technician : Matt Flores Sampled By: LA

Field Moisture & Density (ASTM D2216 & D2937)

Boring Location	Depth (ft)	Wet weight (g) Sample + Ring	Ring Wt. (g)	Sample weight (g)	Wet Density (pcf)	Wet wt. (g) sample + Cup	Cup Wt. (g)	Wet wt. Sample (g)	Dry wt (g) Sample + cup	Dry sample weight (g)	Moisture Content(g)	Percent Moisture (%)	Dry Density (pcf)
B-15	**5'**	193.1	43.1	150	129.0	86.9	14.2	72.7	84.5	70.3	2.4	**3.4**	**124.8**
	10'	200.9	43.4	157.5	135.5	69.7	14.8	54.9	65.0	50.2	4.7	**9.4**	**123.9**

Submitted By:



Abnish Rajbanshi, PE
Laboratory supervisor

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(562) 941-2990 • (714) 526-8441
FAX (562) 946-0026

Project Name: LAUSD - Belvedere Middle School Modernizations
SITI Job No. : 170144
Date Sampled: 04/19/17
Date Tested: 04/21/17
Sampled By: Luis Alzate
Tested By: Matthew Flores

Percent Passing #200 Sieve - Wash Sieve Method (ASTM D1140)

Boring No.	Depth (Feet)	Soils Description	Weight Before Wash Sieve (g)	Weight After Wash sieve (g)	Percent Passing #200 Sieve (%)	Remarks
B-7	5	Sandy Silt w/ fine sand (ML)	333.4	156.5	53.1	Ring Sample
	15	Silty fine Sand (SM) w/ little silts, some fine gravel	524	438.9	16.2	SPT Sample
	20	Fine to coarse Sand (SP-SM), few silts	792.4	724.4	8.6	SPT Sample
	30	Sandy Silt w/ fine sand, trace clay (ML)	909.9	347.9	61.8	SPT Sample
	40	Silty fine Sand (SM)	368.9	203.6	44.8	SPT Sample
	50	Silty Clay (CL) w/ fine sand	350.3	163.4	53.4	SPT Sample

Should you have any questions regarding this report or need further assistance, please call.

Sincerely,
SOUTHWEST INSPECTION AND TESTING, INC.

Abnish Rajbanshi, PE
Laboratory Supervisor

SOUTHWEST
Inspection & Testing, Inc.
Continuous Inspection & Materials Testing
441 Commercial Way, La Habra, CA 90631-6168
(562) 941-2990 • (714) 526-8441
FAX (562) 946-0026

April 19, 2017

Job Name: LAUSD Belvedere Middle School

Job Address: 312 N. Record Ave, Los Angeles, CA 90063

Sample Location: Borings B-7 & B-10; 0-5 ft

Sampled Date: 4/19/17

Sampled By: Giovanni Alcaraz

Tested By: Steven Ballesteros

Expansion Index Test (ASTM D4829)

Expansion Index tests for the above bulk samples were conducted in accordance with the ASTM Test Standard D4829. These test results are summarized in the table below.

Soil Type	Moisture (%)	Dry Density (pcf)	Degree of Saturation (%)	Initial Reading (mm)	Final Reading (mm)	Expansion Index	Expansion Potential
Sandy Silt (ML) w/ fine sand, few fine gravels (B-7 @ 0 - 5 ft)	9.5	103.5	48.0	0.0	0.0	0	Very Low
Silty, clayey fine Sand (SC-SM) to sandy Silt (ML) w/ fine sand (B-10 @ 0 - 5 ft)	8.7	106.7	48.0	0.0	0.0	0	Very Low

Should you have any questions regarding this report or need further assistance, please contact our office.

Sincerely,

Abnish Rajbanshi, PE
Laboratory Supervisor

These results are for the exclusive use of the client for whom they were obtained. They apply only to the samples tested and are not indicitive of apparently identic

COMPACTION TEST REPORT



Test specification: ASTM D 1557-00 Method A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 127.0 pcf Optimum moisture = 8.7 %	Brown Clayey Fine Sand (SC)

Project No. 170144 **Client:** LAUSD

Project: Belvedere Middle School (B5 @ 0-5 Ft.)- 312 N. Record Ave. Los Angeles, CA 91367

Remarks:
SS-201-3443
Sampled 4.19.2017

Southwest Inspection and Testing, Inc.

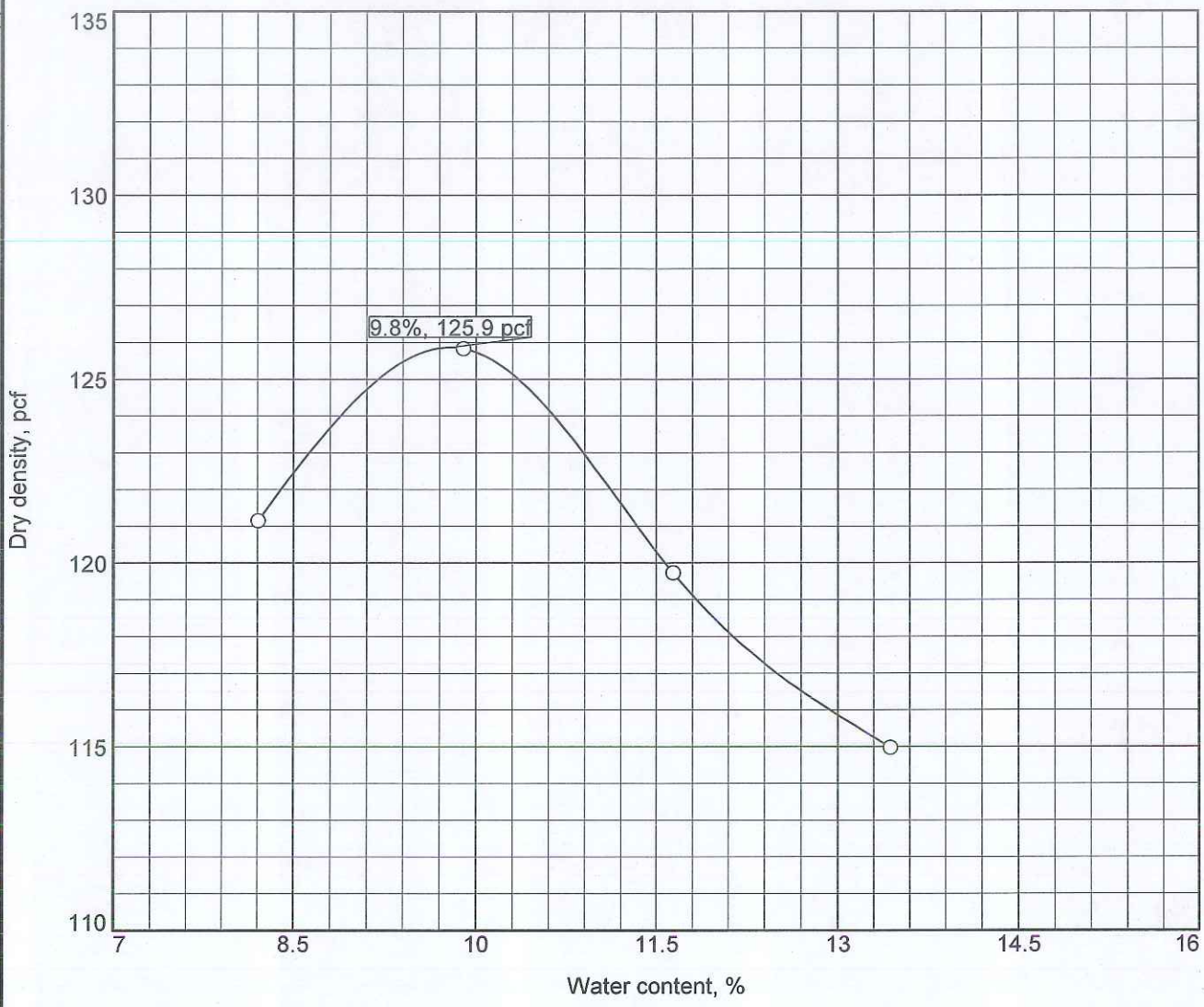
LaHabra, CA

Figure

Tested By: Matt Flores

These results are for the exclusive use of the client for whom they were obtained. They apply only to the samples tested and are not indicitive of apparently identic

COMPACTION TEST REPORT



Test specification: ASTM D 1557-00 Method A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 125.9 pcf Optimum moisture = 9.8 %	Light Brown Silty Clayey Fine Sand (SC-SM)

Project No. 170144 **Client:** LAUSD

Project: Belvedere Middle School (B14 @ 0-5 ft.)- 312 N. Record Ave. Los Angeles, CA 91367

Remarks:
#SS-201-3455
Sampled 4.19.2017

Southwest Inspection and Testing, Inc.

LaHabra, CA

Figure

Tested By: Adam H.

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FAX (562) 946-0026

Project Name: LAUSD Belvedere MS Modernizations
Project Address: 312 N. Record Ave, Los Angeles, CA 90063
Sampled By: Giovanni Alcaraz
Test date: 4/19/2017
Tested By: Steven Ballesteros
Sample Location: B-5 @ 5 ft
Test Type: Direct Shear Test, ASTM D3080

Normal Stress (PSF)	Shear Stress (PSF)
1000	960
2000	1650
4000	2930

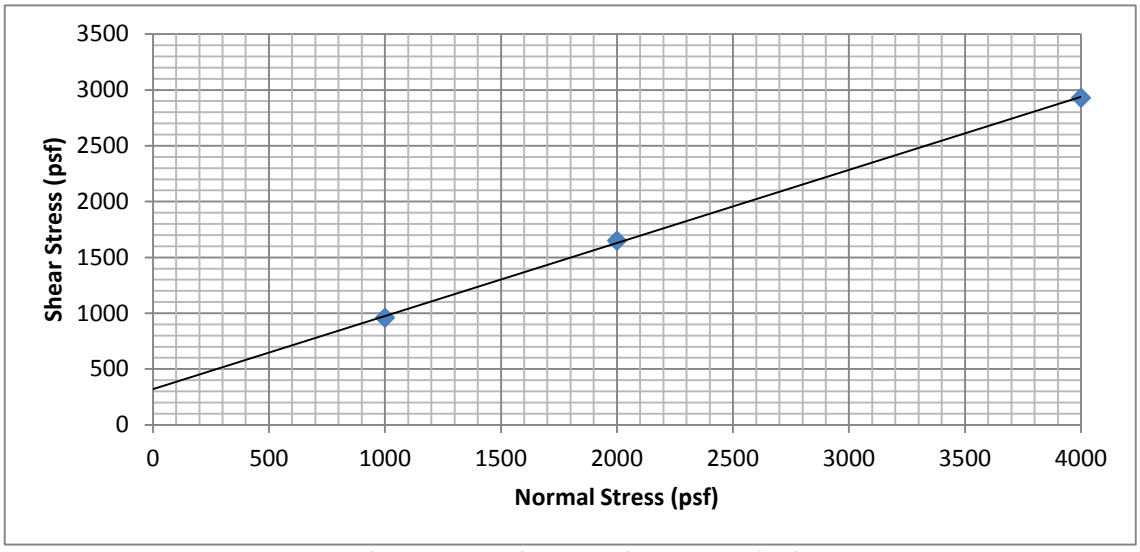

Fig. 1 - Normal Stress Vs Ultimate Shear Stregth Chart

Soil Type	Cohesion (psf)	Friction Angle (deg)	Remarks
Clayey f-m Sand (SC)	320	33.2°	Ultimate Strength

Submitted By:

Abnish Rjabanshi, PE
Laboratory supervisor

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Continuous Inspection & Materials Testing
441 Commercial Way, La Habra, CA 90631-6168
(562) 941-2990 • (714) 526-8441
FAX (562) 946-0026

Project Name: LAUSD Belvedere Middle School Modernizations
Project Address: 312 N. Record Ave, Los Angeles, CA 90063
Sampled By: Giovanni Alcaraz
Test date: 4/19/2017
Tested By: Steven Ballesteros
Sample Id: B-6 @ 10 ft
Test Type: Direct Shear Test, ASTM D3080

Normal Stress (PSF)	Shear Stress (PSF)
1000	780
2000	1410
4000	2590

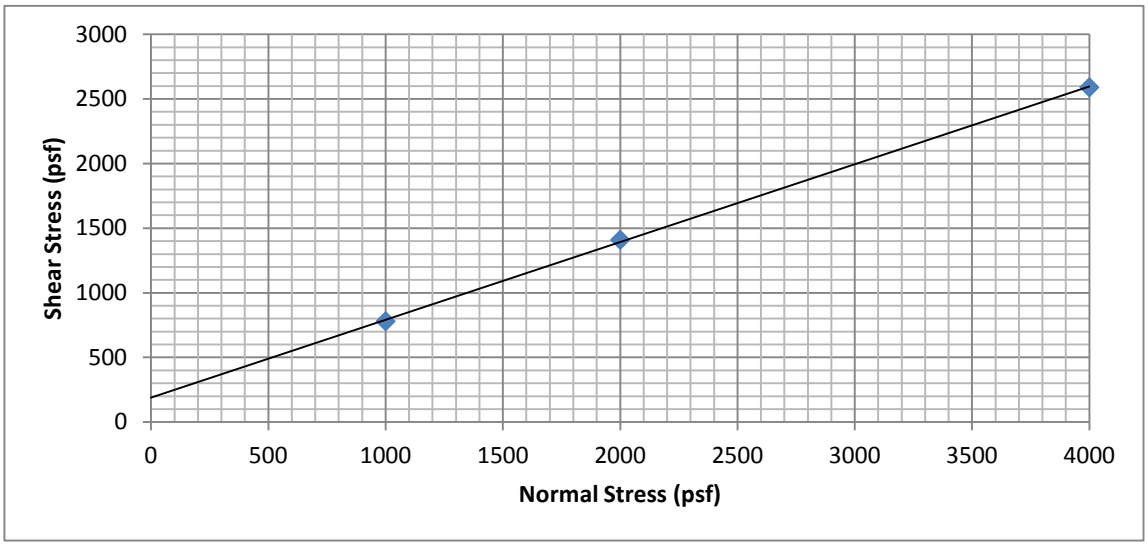


Fig. 1 - Normal Stress Vs Ultimate Shear Stregth Chart

Soil Type	Cohesion (psf)	Friction Angle (deg)	Remarks
Silty f-m Sand (SM) w/ some fine gravel	190	31.0°	Ultimate Strength

Submitted By:

Abnish Rjabanshi, PE
Laboratory supervisor

Cal Land Engineering, Inc.
Dba Quartech Consultants
Geotechnical, Environmental & Civil Engineering

May 8, 2017

Southwest Inspection and Testing, Inc.
441 Commercial Way
La Habra, CA 90631

Attn: Mr. Abnish Rajbanshi

RE: LABORATORY TEST RESULTS/REPORT
Project: Belvedere Middle School - LAUSD
QCI Project No.: 17-005-005C

Gentlemen:

We have completed the testing program conducted on samples for above project. The tests were performed in accordance with testing procedures as follows:

TEST	METHOD
Sulfate Content	CT- 417
Chloride Content	CT- 422
pH	CT- 532 (643)
Consolidation	ASTM D2435

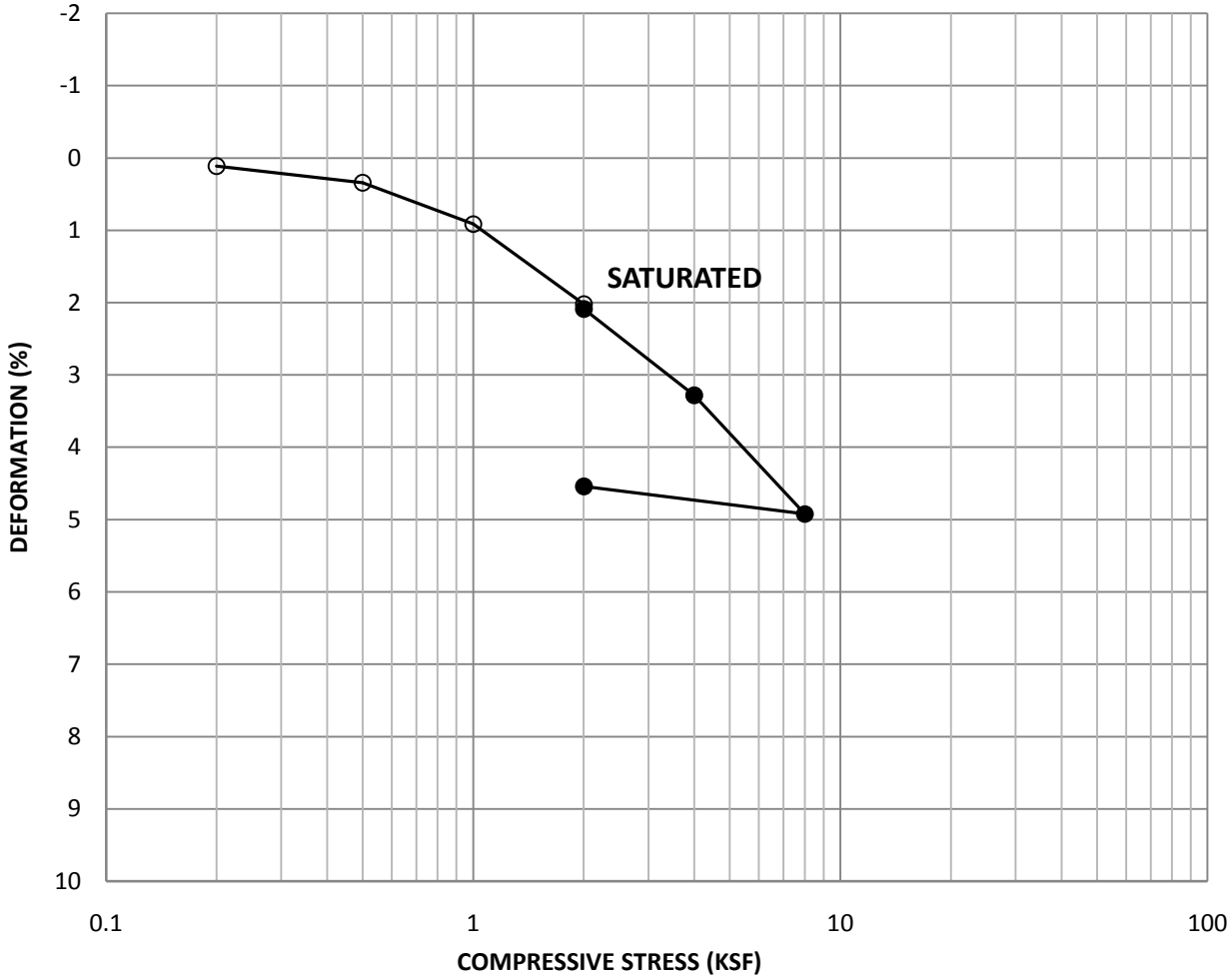
Enclosed is Summary of Laboratory Test Results.

We appreciate the opportunity to provide testing services to Southwest Inspection and Testing, Inc. Should you have any questions, please call the undersigned.

Respectfully submitted,
Cal Land Engineering, Inc. (CLE)
dba Quartech Consultants (QCI)

Keith Au
Project Engineer

Enclosure



SYMBOL	BORING NO.	SAMPLE NO.	DEPTH (FT)	SOIL TYPE	INIT. MOISTURE CONTENT (%)	INIT. DRY DENSITY (PCF)	INIT. VOID RATIO
	B-7	N/A	10	SM	13.9	107.4	0.569

CalLand Engineering, Inc
dba Quartech Consultants
Geotechnical, Environmental & Civil Engineering Services

Project Address:

Belvedere Middle School
LAUSD

CONSOLIDATION

(ASTM D2435)

5/17

FIGURE 1

Cal Land Engineering, Inc.
Dba Quartech Consultants
Geotechnical, Environmental & Civil Engineering

Client Name: Southwest Inspection, and Testing, Inc.
Project: Belvedere Middle-School

QCI Project No.: 17-005-005c
Date: May 8, 2017
Summarized By: KA

Summary of Laboratory Testing Data

Sample ID	Sample Depth (ft)	Chloride CT-422 (ppm)	Sulfate CT-417 (% By Weight)	pH CT-532 (643)
B-4	0-5	52	0.0120	9.40
B-13	0-5	46	0.0090	8.65

SOUTHWEST
Inspection & Testing, Inc.
Continuous Inspection & Materials Testing
441 Commercial Way, La Habra, CA 90631-6168
(562) 941-2990 • (714) 526-8441
FAX (562) 946-0026

5.03.2017

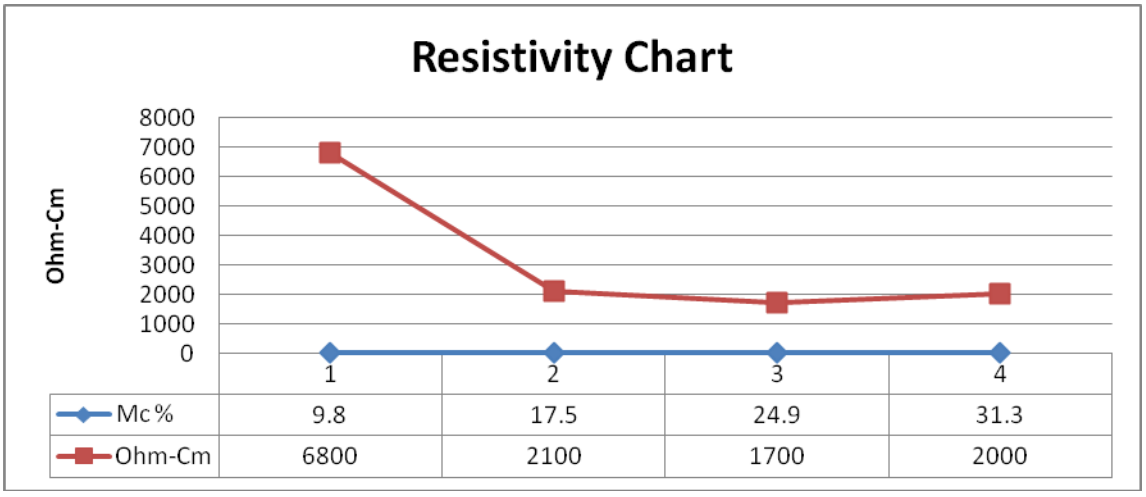
Soil Resistivity Testing Report- CTM 532 / AASHTO T-288

Project: Belvedere Middle School (B-4 @ 0- 5 ft.)
Address: 312 N. Record Ave. Los Angeles, CA 90063
Tested By: Steven Ballesteros
Sample Date: 4.19.2017
Test Date: 5.02.2017

I. Soil Resistivity- AASHTO T-288/ CTM 532

Test Number	Resistivity (Ohm-cm)	Adjusted Moisture (%)
1	6800	9.8
2	2100	17.5
3	1700	24.9
4	2000	31.3

II. Soil Resistivity Chart- AASHTO T-288 / CTM 532 (Ohm-Cm)



Moisture Content (%)

Resistivity= 1700 Ohm-Cm @ 24.9 % Moisture Content

Should you have any questions, please do not hesitate to call us.

Sincerely,
Southwest Inspection and Testing, Inc.

Abnish Rajbanshi
Staff Engineer

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Continuous Inspection & Materials Testing
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FAX (562) 946-0026

5.04.2017

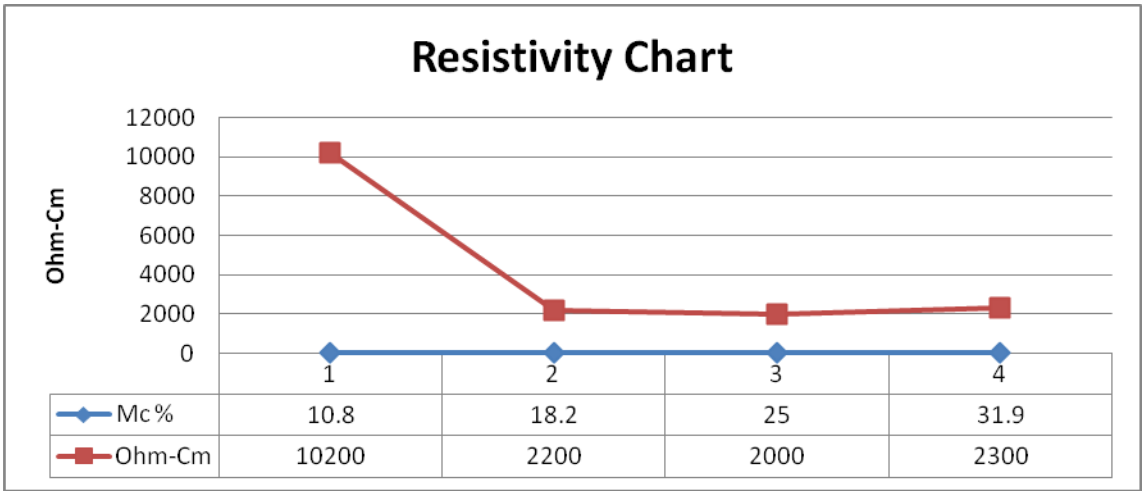
Soil Resistivity Testing Report- CTM 532 / AASHTO T-288

Project: Belvedere Middle School (B-13 @ 0- 5 ft.)
Address: 312 N. Record Ave. Los Angeles, CA 90063
Tested By: Steven Ballesteros
Sample Date: 4.19.2017
Test Date: 5.03.2017

I. Soil Resistivity- AASHTO T-288/ CTM 532

Test Number	Resistivity (Ohm-cm)	Adjusted Moisture (%)
1	10200	10.8
2	2200	18.2
3	2000	25.0
4	2300	31.9

II. Soil Resistivity Chart- AASHTO T-288 / CTM 532 (Ohm-Cm)



Moisture Content (%)

Resistivity= 2000 Ohm-Cm @ 25.0 % Moisture Content

Should you have any questions, please do not hesitate to call us.

Sincerely,
Southwest Inspection and Testing, Inc.

Abnish Rajbanshi
Staff Engineer

APPENDIX C

Seismic Settlement Analysis

Seismic Settlement Analysis

In order to evaluate the seismic settlement potential of the subsurface soils, we conducted a settlement analysis utilizing a computer program LiquefyPro (CivilTech, 2009), following the guidelines of the SCEC and CGS Special Publication (SCEC, 1999 and CGS, 2008b). The following input parameters were utilized in our analysis:

- Conservative N-values from the bore holes B-1 to B-15 across the campus were considered. Field N-values from modified California sampler within upper 10 feet were correlated with SPT N-values using a conversion factor of 0.63, as suggested in the guidelines (SCEC, 1999).

- Physical properties of subsurface soils (fine contents, density) are obtained from the laboratory test results and conservative assumptions based on visual observation of the soil samples.

- Following correction factors were applied to SPT N-values: hammer energy ratio C_E of 1.3 for calibrated automatic trip hammer; borehole diameter correction factor C_B of 1.15 for 8-inch diameter borehole; and sampling method correction factor C_S of 1.2 for the SPT samplers, which had inner grooves for liner.

- Maximum Moment (Mw) of 6.9, evaluated from deaggregation of the probabilistic seismic hazard analysis (PSHA) at 2% probability in 50 years (2,475 years return period) utilizing an USGS program (https://earthquake.usgs.gov/hazards/interactive). A graphic plot of deaggregation from PSHA is presented in this appendix.

- Peak ground acceleration (PGA) of 0.92g per Section 1803A.5.12 of the 2016 CBC and Section 11.8.3 of ASCE 7-10.

- Groundwater was not encountered up to maximum explored depth 50 feet during this field exploration. Historic shallow groundwater level is on the order of 200 feet as documented in the state's seismic hazards report (CGS, 2001). Groundwater level is considered at 50 feet for this analysis.

- Cyclic Stress Ratio (CSR) to represent the anticipated field earthquake excitation (cyclic loading) was determined by Seed's Method (Seed and Idriss, 1971), which was adopted in the NCEER Proceeding and the subsequent SCEC guidelines (see References). A Factor of Safety value 1.3 is considered for CSR in compliance with the

CGS Special Publication 117A.

Our evaluation results indicate that maximum seismic settlement at the site will be 1.66 inch. Graphical plot showing seismic settlement profile and the analysis results summary are presented in this appendix.

Unified Hazard Tool

Please do not use this tool to obtain ground motion parameter values for the design code reference documents covered by the U.S. Seismic Design Maps web tools (e.g., the International Building Code and the ASCE 7 or 41 Standard). The values returned by the two applications are not identical.

Input

Edition

Dynamic: Conterminous U.S. 2014

Spectral Period

Peak ground acceleration

Latitude

Decimal degrees

34.0395

Time Horizon

Return period in years

2475

Longitude

Decimal degrees, negative values for western long…

-118.1816

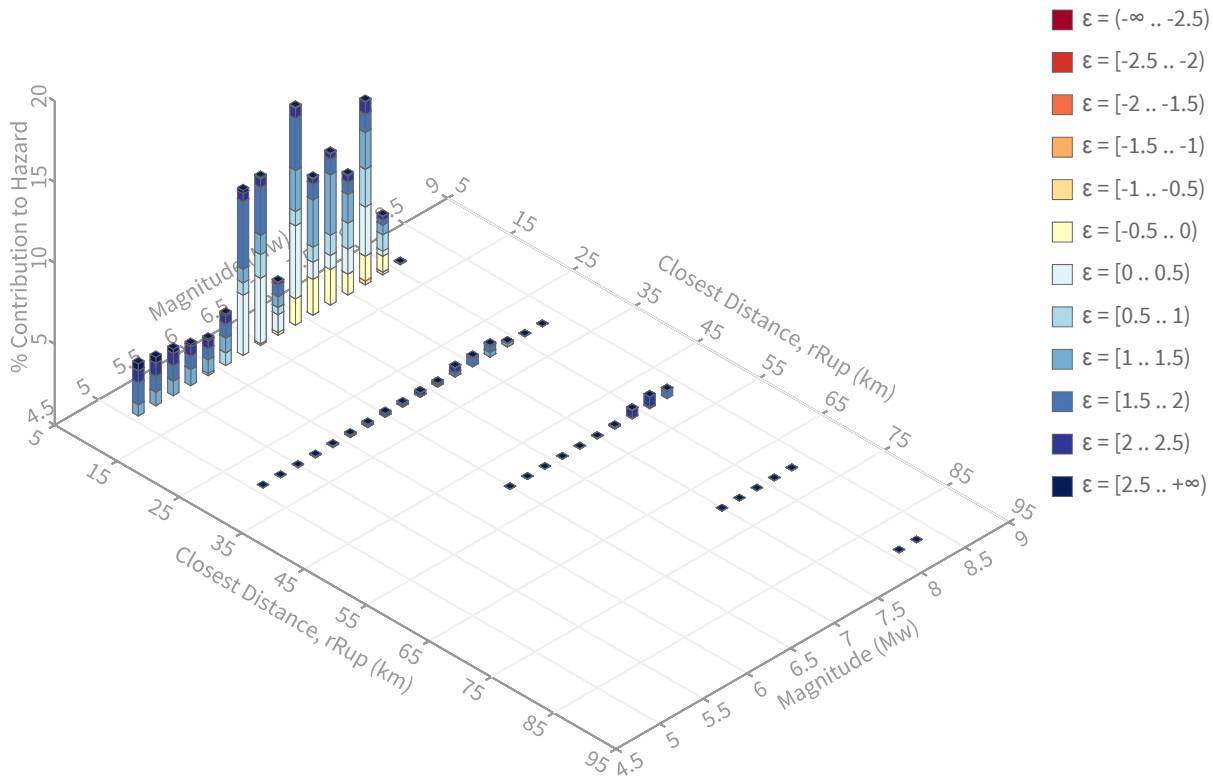
Site Class

259 m/s (Site class D)

Deaggregation

Component

Total



Summary statistics for, Deaggregation: Total

Deaggregation targets

Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr^{-1}
PGA ground motion: 1.0609423 g

Recovered targets

Return period: 2836.2596 yrs
Exceedance rate: 0.00035257704 yr^{-1}

Totals

Binned: 100 %
Residual: 0 %
Trace: 0.1 %

Mean (for all sources)

r: 10.99 km
m: 6.83
ε_0: 1.09 σ

Mode (largest r-m bin)

r: 7.82 km
m: 6.9
ε_0: 0.82 σ
Contribution: 13.45 %

Mode (largest ε_0 bin)

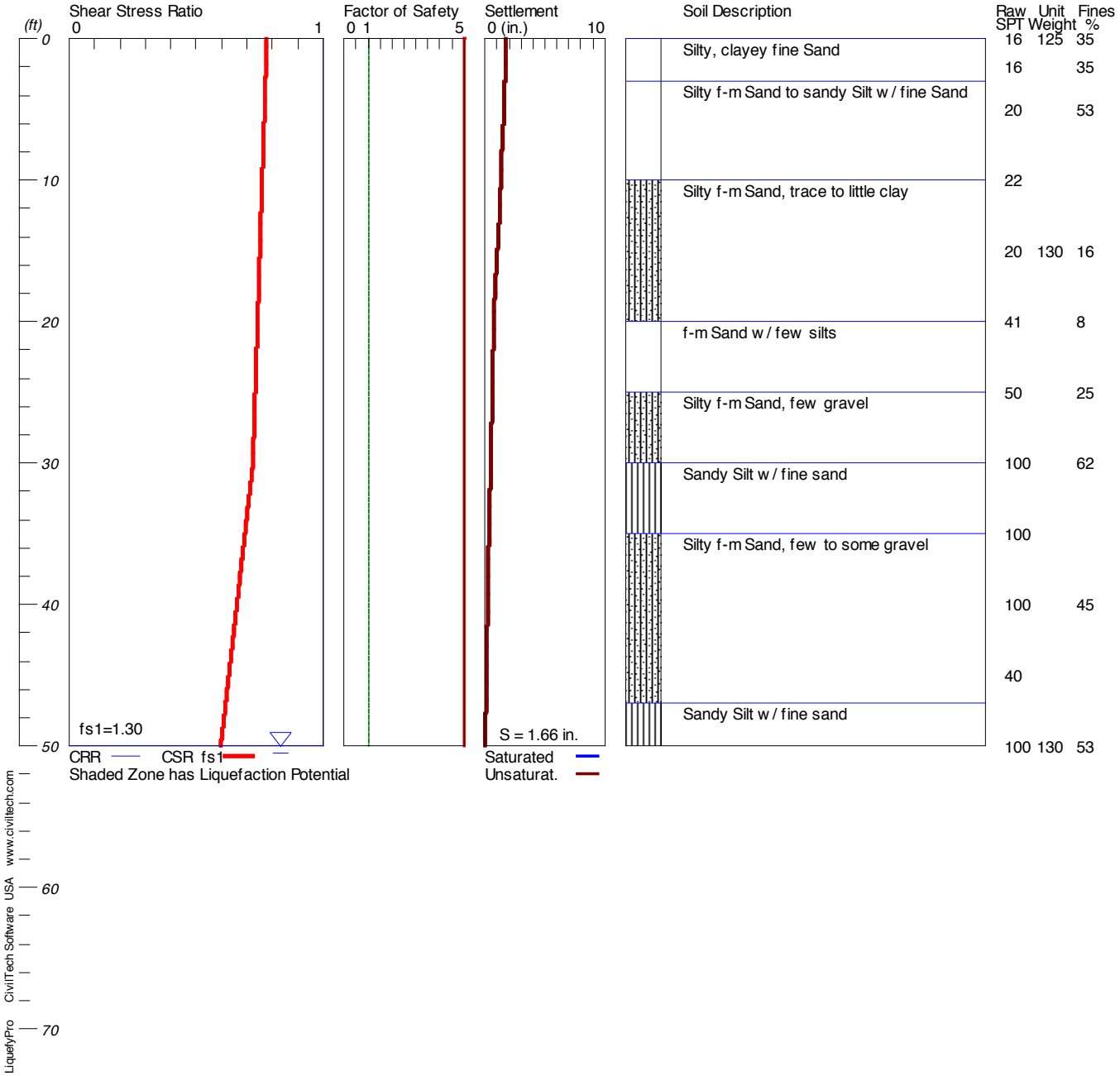
r: 6.25 km
m: 6.87
ε_0: 0.12 σ
Contribution: 4.5 %

Seismic Settlement Analysis

Belvedere Middle School, 312 N. Record Ave, Los Angeles, CA

Hole No.= Water Depth=50 ft Surface Elev.=310 ft

Magnitude=6.9
Acceleration=0.92g



Southwest Inspection & Testing

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LIQUEFACTION ANALYSIS SUMMARY

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Input File Name: C:\Southwest Projects\LAUSD - Geo Inv - Belvedere MS\SeismicSettle.liq
Title: Belvedere Middle School, 312 N. Record Ave, Los Angeles, CA
Subtitle:

Surface Elev.=310 ft
Hole No.=
Depth of Hole= 50.00 ft
Water Table during Earthquake= 50.00 ft
Water Table during In-Situ Testing= 50.00 ft
Max. Acceleration= 0.92 g
Earthquake Magnitude= 6.90

Input Data:
Surface Elev.=310 ft
Hole No.=
Depth of Hole=50.00 ft
Water Table during Earthquake= 50.00 ft
Water Table during In-Situ Testing= 50.00 ft
Max. Acceleration=0.92 g
Earthquake Magnitude=6.90
No-Liquefiable Soils: Based on Analysis

1. SPT or BPT Calculation.
2. Settlement Analysis Method: Ishihara / Yoshimine
3. Fines Correction for Liquefaction: Idriss/Seed
4. Fine Correction for Settlement: During Liquefaction*
5. Settlement Calculation in: All zones*
6. Hammer Energy Ratio, Ce = 1.3
7. Borehole Diameter, Cb= 1.15
8. Sampling Method, Cs= 1.2
9. User request factor of safety (apply to CSR) , User= 1.3
   Plot one CSR curve (fs1=User)
10. Use Curve Smoothing: Yes*

* Recommended Options

In-Situ Test Data:

Depth ft	SPT	gamma pcf	Fines %
0.00	16.00	125.00	35.00
2.00	16.00	125.00	35.00
5.00	20.00	125.00	53.00
10.00	22.00	125.00	53.00
15.00	20.00	130.00	16.00
20.00	41.00	130.00	8.00
25.00	50.00	130.00	25.00
30.00	100.00	130.00	62.00
35.00	100.00	130.00	62.00

40.00	100.00	130.00	45.00
45.00	40.00	130.00	45.00
50.00	100.00	130.00	53.00

Output Results:

Settlement of Saturated Sands=0.00 in.
Settlement of Unsaturated Sands=1.66 in.
Total Settlement of Saturated and Unsaturated Sands=1.66 in.
Differential Settlement=0.831 to 1.097 in.

Depth ft	CRRm	CSRfs	F.S.	S_sat. in.	S_dry in.	S_all in.
0.00	2.48	0.78	5.00	0.00	1.66	1.66
0.50	2.48	0.78	5.00	0.00	1.66	1.66
1.00	2.48	0.78	5.00	0.00	1.66	1.66
1.50	2.48	0.77	5.00	0.00	1.66	1.66
2.00	2.48	0.77	5.00	0.00	1.66	1.66
2.50	2.48	0.77	5.00	0.00	1.65	1.65
3.00	2.48	0.77	5.00	0.00	1.63	1.63
3.50	2.48	0.77	5.00	0.00	1.60	1.60
4.00	2.48	0.77	5.00	0.00	1.57	1.57
4.50	2.48	0.77	5.00	0.00	1.56	1.56
5.00	2.48	0.77	5.00	0.00	1.55	1.55
5.50	2.48	0.77	5.00	0.00	1.54	1.54
6.00	2.48	0.77	5.00	0.00	1.51	1.51
6.50	2.48	0.77	5.00	0.00	1.48	1.48
7.00	2.48	0.76	5.00	0.00	1.45	1.45
7.50	2.48	0.76	5.00	0.00	1.41	1.41
8.00	2.48	0.76	5.00	0.00	1.38	1.38
8.50	2.48	0.76	5.00	0.00	1.34	1.34
9.00	2.48	0.76	5.00	0.00	1.31	1.31
9.50	2.48	0.76	5.00	0.00	1.29	1.29
10.00	2.48	0.76	5.00	0.00	1.28	1.28
10.50	2.48	0.76	5.00	0.00	1.27	1.27
11.00	2.48	0.76	5.00	0.00	1.25	1.25
11.50	2.48	0.76	5.00	0.00	1.23	1.23
12.00	2.48	0.76	5.00	0.00	1.21	1.21
12.50	2.48	0.75	5.00	0.00	1.18	1.18
13.00	2.48	0.75	5.00	0.00	1.15	1.15
13.50	2.48	0.75	5.00	0.00	1.11	1.11
14.00	2.48	0.75	5.00	0.00	1.08	1.08
14.50	2.48	0.75	5.00	0.00	1.04	1.04
15.00	2.48	0.75	5.00	0.00	1.01	1.01
15.50	2.48	0.75	5.00	0.00	0.97	0.97
16.00	2.48	0.75	5.00	0.00	0.94	0.94
16.50	2.48	0.75	5.00	0.00	0.90	0.90
17.00	2.48	0.75	5.00	0.00	0.87	0.87
17.50	2.48	0.75	5.00	0.00	0.84	0.84
18.00	2.48	0.74	5.00	0.00	0.80	0.80
18.50	2.48	0.74	5.00	0.00	0.77	0.77
19.00	2.48	0.74	5.00	0.00	0.73	0.73
19.50	2.48	0.74	5.00	0.00	0.71	0.71
20.00	2.48	0.74	5.00	0.00	0.70	0.70
20.50	2.48	0.74	5.00	0.00	0.69	0.69
21.00	2.48	0.74	5.00	0.00	0.67	0.67
21.50	2.48	0.74	5.00	0.00	0.66	0.66
22.00	2.48	0.74	5.00	0.00	0.65	0.65
22.50	2.48	0.74	5.00	0.00	0.64	0.64
23.00	2.48	0.74	5.00	0.00	0.63	0.63
23.50	2.48	0.73	5.00	0.00	0.61	0.61
24.00	2.48	0.73	5.00	0.00	0.60	0.60

24.50	2.48	0.73	5.00	0.00	0.59	0.59
25.00	2.48	0.73	5.00	0.00	0.58	0.58
25.50	2.48	0.73	5.00	0.00	0.56	0.56
26.00	2.48	0.73	5.00	0.00	0.55	0.55
26.50	2.48	0.73	5.00	0.00	0.54	0.54
27.00	2.47	0.73	5.00	0.00	0.53	0.53
27.50	2.46	0.73	5.00	0.00	0.52	0.52
28.00	2.45	0.73	5.00	0.00	0.51	0.51
28.50	2.44	0.73	5.00	0.00	0.50	0.50
29.00	2.44	0.72	5.00	0.00	0.48	0.48
29.50	2.43	0.72	5.00	0.00	0.47	0.47
30.00	2.42	0.72	5.00	0.00	0.46	0.46
30.50	2.41	0.72	5.00	0.00	0.44	0.44
31.00	2.41	0.72	5.00	0.00	0.43	0.43
31.50	2.40	0.71	5.00	0.00	0.42	0.42
32.00	2.39	0.71	5.00	0.00	0.40	0.40
32.50	2.39	0.71	5.00	0.00	0.39	0.39
33.00	2.38	0.70	5.00	0.00	0.37	0.37
33.50	2.37	0.70	5.00	0.00	0.36	0.36
34.00	2.36	0.70	5.00	0.00	0.34	0.34
34.50	2.36	0.69	5.00	0.00	0.33	0.33
35.00	2.35	0.69	5.00	0.00	0.31	0.31
35.50	2.34	0.69	5.00	0.00	0.29	0.29
36.00	2.34	0.68	5.00	0.00	0.28	0.28
36.50	2.33	0.68	5.00	0.00	0.26	0.26
37.00	2.32	0.68	5.00	0.00	0.25	0.25
37.50	2.32	0.68	5.00	0.00	0.23	0.23
38.00	2.31	0.67	5.00	0.00	0.21	0.21
38.50	2.30	0.67	5.00	0.00	0.20	0.20
39.00	2.30	0.67	5.00	0.00	0.20	0.20
39.50	2.29	0.66	5.00	0.00	0.19	0.19
40.00	2.28	0.66	5.00	0.00	0.18	0.18
40.50	2.28	0.66	5.00	0.00	0.17	0.17
41.00	2.27	0.65	5.00	0.00	0.17	0.17
41.50	2.26	0.65	5.00	0.00	0.16	0.16
42.00	2.26	0.65	5.00	0.00	0.15	0.15
42.50	2.25	0.64	5.00	0.00	0.14	0.14
43.00	2.25	0.64	5.00	0.00	0.14	0.14
43.50	2.24	0.64	5.00	0.00	0.13	0.13
44.00	2.23	0.63	5.00	0.00	0.12	0.12
44.50	2.23	0.63	5.00	0.00	0.11	0.11
45.00	2.22	0.63	5.00	0.00	0.09	0.09
45.50	2.22	0.62	5.00	0.00	0.08	0.08
46.00	2.21	0.62	5.00	0.00	0.07	0.07
46.50	2.20	0.62	5.00	0.00	0.06	0.06
47.00	2.20	0.62	5.00	0.00	0.05	0.05
47.50	2.19	0.61	5.00	0.00	0.04	0.04
48.00	2.19	0.61	5.00	0.00	0.03	0.03
48.50	2.18	0.61	5.00	0.00	0.02	0.02
49.00	2.17	0.60	5.00	0.00	0.02	0.02
49.50	2.17	0.60	5.00	0.00	0.01	0.01
50.00	2.16	0.60	5.00	0.00	0.00	0.00

---

* F.S.<1, Liquefaction Potential Zone
(F.S. is limited to 5, CRR is limited to 2, CSR is limited to 2)

Units: Unit: qc, fs, Stress or Pressure = atm(1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

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1 atm(atmosphere) = 1 tsf (ton/ft2)
CRRm Cyclic resistance ratio from soils
CSRsf Cyclic stress ratio induced by a given earthquake (with user

request factor of safety)

F.S.	Factor of Safety against liquefaction, F.S.=CRRm/CSRsf
S_sat	Settlement from saturated sands
S_dry	Settlement from Unsaturated Sands
S_all	Total Settlement from Saturated and Unsaturated Sands
NoLiq	No-Liquefy Soils

APPENDIX D

Site Specific Ground Motion Analysis for Seismic Parameters

SOUTHWEST
Inspection & Testing, Inc.
Continuous Inspection & Materials Testing
441 Commercial Way, La Habra, CA 90631-6168
(562) 941-2990 • (714) 526-8441
FAX (562) 946-0026

ANNUAL FREQUENCY OF EXCEEDANCE: 4.041e-004
RETURN PERIOD: 2474.9
PROBABILITY OF EXCEEDENCE: 2.0% IN 50.0 YEARS
Column 1: Spectral Period
Column 2: Acceleration (g) for: Mean
Column 3: Acceleration (g) for: Boore-Atkinson (2008) NGA USGS 2008 MRC
Column 4: Acceleration (g) for: Abrahamson-Silva (2008) NGA MRC
Column 5: Acceleration (g) for: Campbell-Bozorgnia (2008) NGA USGS 2008 MRC
Column 6: Acceleration (g) for: Chiou-Youngs (2007) NGA USGS 2008 MRC

Table 1 - Probabilistic Siesmic Hazard Analysis

1	2	3	4	5	6	7
Period (Sec)	**Mean S_a (g)**	**Boore- Atkinson (2008) NGA MRC**	**Abrahamson- Silva (2008) NGA MRC**	**Campbell- Bozorgnia (2008) NGA MRC**	**Chiou - Youngs (2007) NGA USGS 2008 MRC**	**Risk Coefficient C_R**
PGA	1.06	0.99	1.06	1.03	1.14	
0.05	1.22	1.17	1.17	1.17	1.35	0.941
0.1	1.66	1.68	1.56	1.57	1.83	0.941
0.2	2.16	2.19	2.12	2.04	2.30	0.941
0.3	2.21	2.28	2.19	2.07	2.29	0.943
0.4	2.17	2.27	2.15	2.08	2.17	0.945
0.5	2.09	2.24	2.06	2.05	2.02	0.947
0.75	1.78	1.92	1.74	1.74	1.70	0.949
1	1.48	1.48	1.49	1.46	1.46	0.958
1.5	1.03	1.02	1.05	1.04	1.01	0.958
2	0.76	0.73	0.82	0.77	0.71	0.958
2.5	0.59	0.56	0.64	0.58	0.54	0.958
3	0.48	0.46	0.52	0.47	0.44	0.958
3.5	0.40	0.38	0.44	0.40	0.36	0.958
4	0.34	0.33	0.37	0.35	0.31	0.958

Site specific sesimic response spetrum analyses, as presented hereafter, are evaluated from the above four (4) NGA (New Generation Attenuation) relations for MRC (Maximum Rotated Component). Seismic event with a probability of 2% in 50 years (2,475 years return period), $V_s(30)$ value of 275 m/sec, and 5% damping are considered.

(a) In Figure 1 Below, time period and acceleration values are taken from Table 1, Columns 1 and 2, respectively. Mean Ground Acceleration was taken as the average of spectral accl. determined using 4 different attenuation equations; 1) Boore- Atkinson NGA 2008 MRC; 2) Abrahamson-Silva (2008) NGA MRC; 3) Campbell- Bozorgnia (2008) NGA MRC; and 4) Chiou- Youngs; (2007) NGA USGS 2008 MRC.

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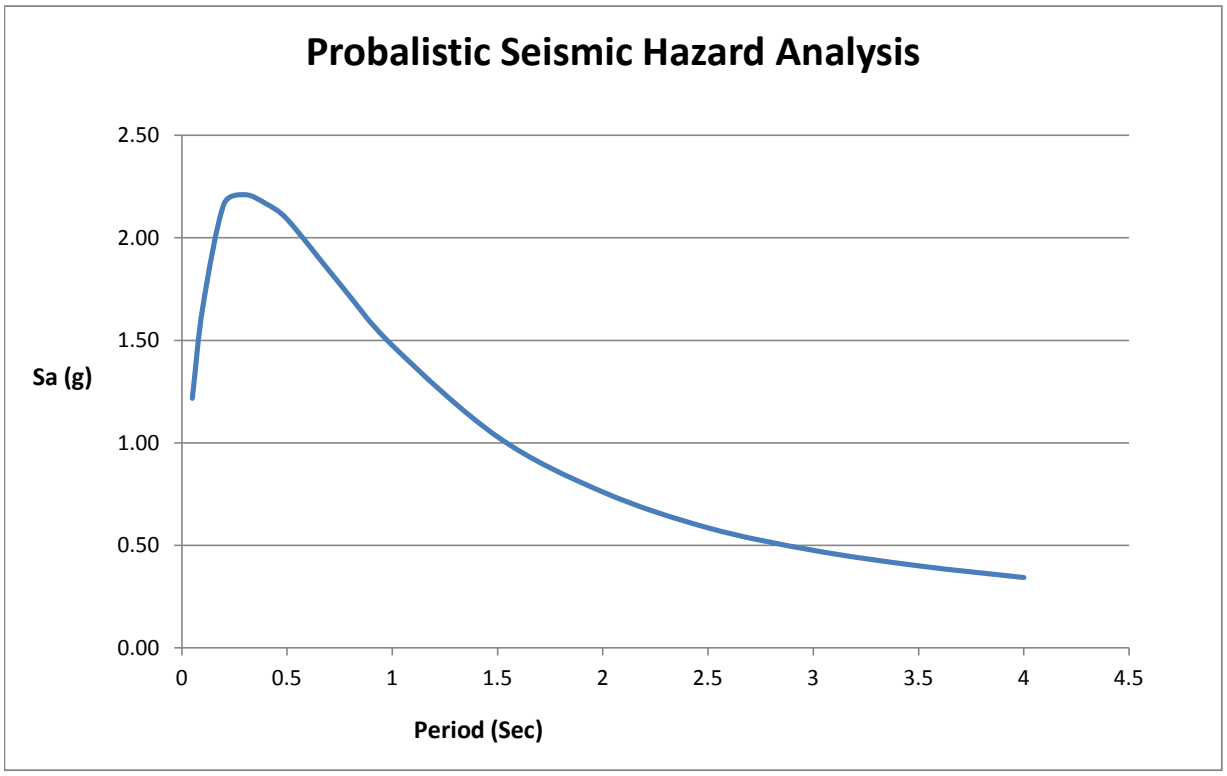

b) Risk Coefficients in Table 1, Column 7 are determined from Section 21.2.1.1, Method 1 of ASCE 7-10. These values are derived from Figures 22-17 and 22-18 of ASCE 7-10.

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Deterministic Spectra Results using EZ-FRISK 7.65 Build 004
Largest Amplitudes of Ground Motions Considering All Sources Calculated using Weighted Mean of Attenuation Equations
Amplitude Units: Acceleration (g)
Fractile: 0.84
Contolling Fault : Puente Hills

Table 2 - Deterministic Siesmic Hazard Analysis

8	9	10	11	12	13
Period (Sec)	**Mean S_a (g)**	**Boore- Atkinson (2008) NGA MRC**	**Abrahamson- Silva (2008) NGA MRC**	**Campbell- Bozorgnia (2008) NGA MRC**	**Chiou - Youngs (2007) NGA USGS 2008 MRC**
PGA	1.21	1.06	1.47	1.08	1.39
0.05	1.40	1.32	1.52	1.17	1.69
0.1	1.78	1.82	1.83	1.45	2.11
0.2	2.29	2.40	2.46	1.87	2.62
0.3	2.47	2.63	2.81	2.05	2.68
0.4	2.55	2.71	2.95	2.22	2.62
0.5	2.52	2.68	2.85	2.34	2.50
0.75	2.23	2.37	2.44	2.14	2.15
1	1.89	1.82	2.11	1.90	1.88
1.5	1.30	1.26	1.48	1.37	1.22
2	0.93	0.92	1.16	0.94	0.81
2.5	0.66	0.71	0.83	0.65	0.60
3	0.50	0.57	0.61	0.52	0.48
3.5	0.41	0.48	0.47	0.46	0.40
4	0.36	0.41	0.38	0.41	0.33

(c) In Figure 2 below, 84 % Deterministic Spectrum is obtained using values from Columns 8 and 9 in Table 2. The Mean S_a values are arithimetic mean of the spectral accl. values obtained utilizing 4 different attenuation equations; 1) Boore- Atkinson (2008) NGA MRC; 2) Abrahamson-Silva (2008) NGA MRC, 3) Campbell- Bozorgnia (2008) NGA MRC, and 4) Chiou- Youngs (2007) NGA USGS 2008 MRC.

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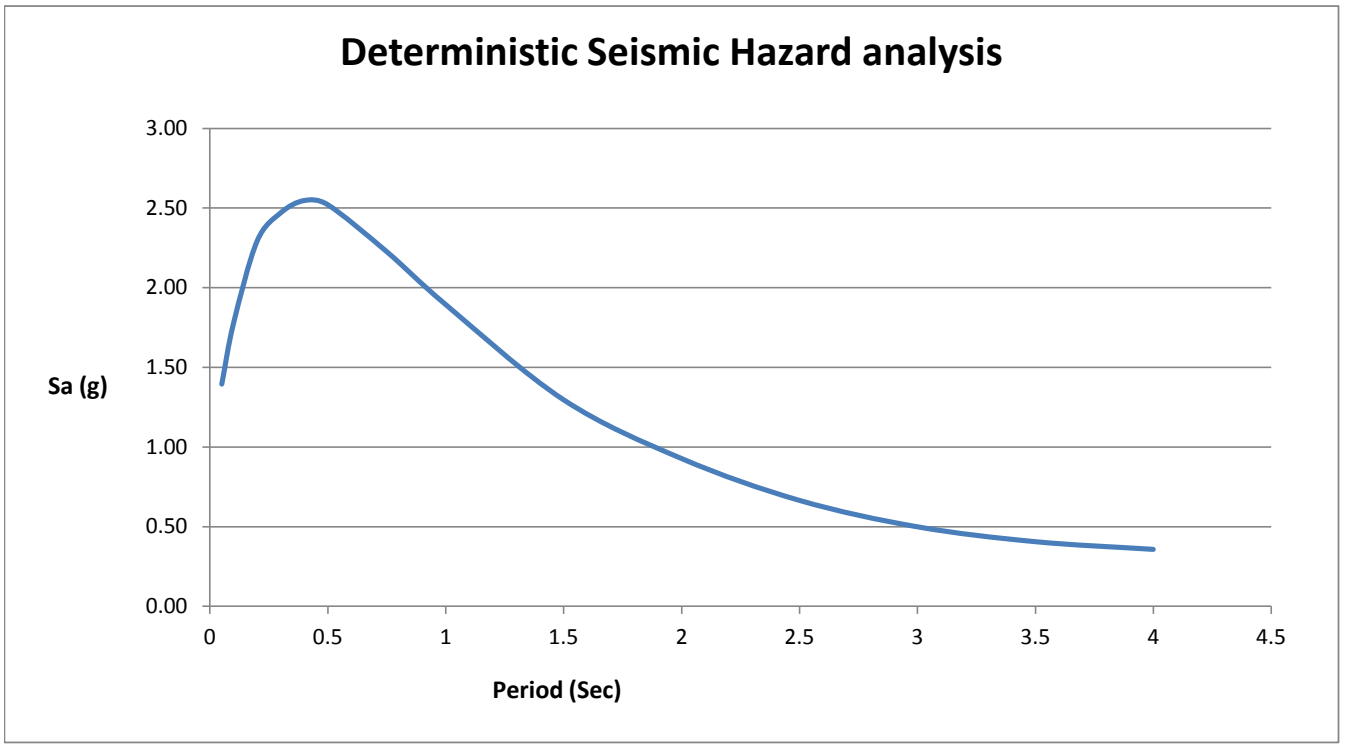

Figure 2 - Deterministic Ground Acceleration Spectrum (84th Percentile)

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Table 3 - 2013 CBC Code Values
(Section 1613A.3 of the 2013 CBC)

S_S	2.426
S_1	0.842
F_a	1.000
F_V	1.500
S_{MS}	2.426
S_{M1}	1.264
S_{DS}	1.618
S_{D1}	0.842
T_0	0.104
T_S	0.52
T_L	8

Table 4 - Deterministic Lower Bounds
(Section 21.2.2 of ASCE 7-10)

S_S	1.5
S_1	0.6
F_a	1
F_V	1.5
S_{MS}	1.5
S_{M1}	0.9
T_0	0.120
T_S	0.6
T_L	8

Table 5 - Design Spectral Response Acceleration
(Section 1613A.3 of the 2013 CBC)

14	15	
Period (Sec)	**S_a (g)**	
0.00	0.6472	0.518
0.05	1.114	0.891
0.1	1.581	1.265
0.104	1.618	1.294
0.2	1.618	1.294
0.3	1.618	1.294
0.4	1.618	1.294
0.5	1.618	1.294
0.75	1.123	0.898
1	0.842	0.674
1.5	0.561	0.449
2	0.421	0.337
2.5	0.337	0.270
3	0.281	0.225
3.5	0.240	0.192
4	0.210	0.168

Table 6 - Deterministic Lower Limits
(Section 21.2.2 of ASCE 7-10)

16	17
Period (Sec)	**S_a (g)**
0.00	0.60
0.05	0.63
0.1	1.25
0.2	1.50
0.3	1.50
0.4	1.50
0.5	1.50
0.75	1.20
1	0.90
1.5	0.60
2	0.45
2.5	0.36
3	0.30
3.5	0.26
4	0.23

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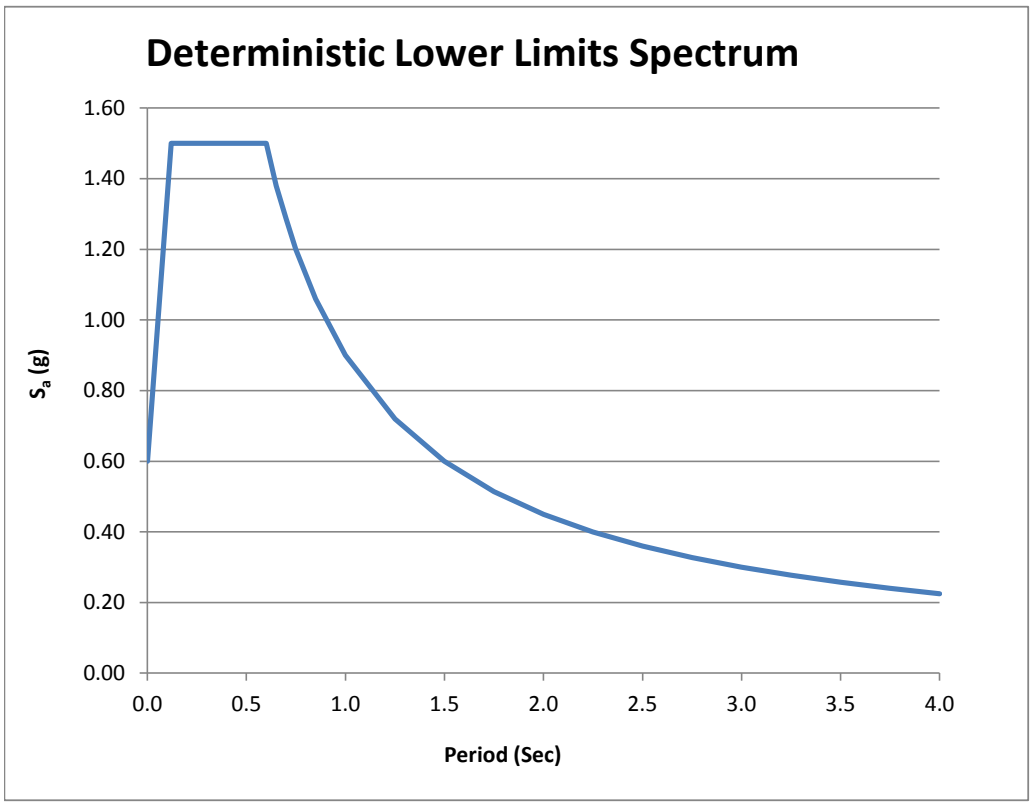

Figure 3 - Deterministic Lower Limit Spectrum

(d) Deterministic Lower Limit Spectrum in Figure 3 refer to Columns 16 and 17 of Table 6. Spectral Accl. S_a values are determined pursuant to Section 21.2.2 of ASCE 7-10.

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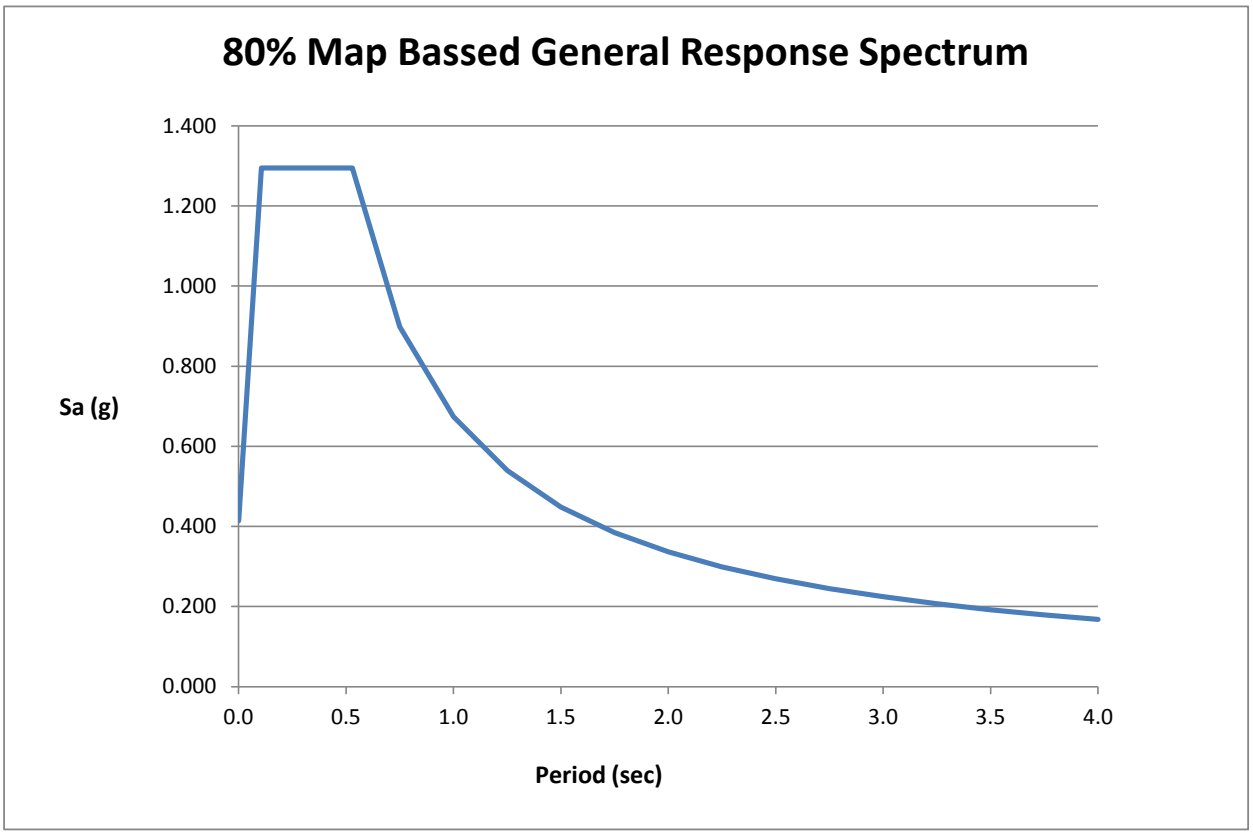

Figure 4 - 80% of the Map Based General Reponse Spectrum

(e) Response spectrum in Figure 4 refers to 80% spectral accl. values of the General Response Spectrum per Section 1613A.3 of the 2013 CBC. S_a values of General Response Spectrum are in Column 15 of Table 5. S_a values of Figure 4 are in Column 24 of Table 8 (Column 25 = 0.8 X Column 15).

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Table 7 - Probabilistic & Deterministic MCE_R

18	19	20
Period (Sec)	**Probabilistic MCE_R**	**Deterministic MCE_R**
	Col. 2 X Col.7	**Greater of Col. 9 or Col. 17**
0.05	1.145	1.40
0.1	1.566	1.78
0.2	2.036	2.29
0.3	2.084	2.47
0.4	2.047	2.55
0.5	1.980	2.52
0.75	1.685	2.23
1	1.413	1.89
1.5	0.986	1.30
2	0.728	0.93
2.5	0.560	0.66
3	0.455	0.50
3.5	0.383	0.41
4	0.328	0.36

(f) The Probabilistic MCE_R values are determined by multiplyiling the probabilistic mean acceleration from Table 1, Column 2 and Risk Coefficient from Table 1, Column 7. Deterministic MCE_R values are greater of the 84th percentil spectral accl. values (Table 2, Column 9) or Deterministic Lower Limit values from Table 6, Coulmn 17.

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Table 8 - Site-Specific Design Response Spectrum

21	22	23	24	25	26	27
	Site Specific MCE_R	**Site-Specific S_a (g)**	**80% of General Response Spectrum**	**Design Response Spectrum**	**S_{DS} (g)**	**S_{D1} (g)**
Period (Sec)	**S_{aM} (g)**	**S_a = 2/3 *S_{aM}**	**0.8 X Column 15**	**Max. of Col. 23 or 24**		
0.05	1.145	0.763	0.891	0.891	Equals to S_a at 0.2 sec but not less than S_a at any period larger than 0.2 sec (S_a values in Col. 25)	Greater of S_a at 1 sec or two times of S_a at 2 sec (S_a values in Col. 25)
0.1	1.566	1.044	1.265	1.265		
0.2	2.036	1.358	1.294	1.358		
0.3	2.084	1.389	1.294	1.389		
0.4	2.047	1.365	1.294	1.365		
0.5	1.980	1.320	1.294	1.320		
0.75	1.685	1.124	0.898	1.124		
1	1.413	0.942	0.674	0.942	**1.389**	**0.970**
1.5	0.986	0.657	0.449	0.657		
2	0.728	0.485	0.337	0.485		
2.5	0.560	0.374	0.270	0.374		
3	0.455	0.304	0.225	0.304		
3.5	0.383	0.255	0.192	0.255		
4	0.328	0.219	0.168	0.219		
Note: Column 22 = Smaller of Col. 19 and 20			**S_{MS} = 1.5X S_{DS} = 2.083g**	**S_{M1}= 1.5 X S_{D1} = 1.455g**		

(g) In compliance with Section 21.2.3 of ASCE 7-10, Site-Specific MCE_R (s_{aM}) values in Column 22 is taken as the lesser of the Probabilistic MCE_R (TaBle 7, Col. 19) or Deterministic MCE_R (Table 7, Col. 20) values. Site-specific spectral accl. S_a values in Column 23 are evaluated from SaM values (Col. 22) in accordance with Equation 21.3-1 of ASCE 7-10.

Site-specific Design Response Spectrum values in Table 8, Column 25 is taken as the maximum of accl. values in Columns 23 and 24, i.e., larger of design spectral acceleration from ASCE 7-10, Section 21.3 (Equation 21.3 -1) or 80 percent of spectral accl. values determined per Section 11.4.5 of ASCE 7-10.

Table 9 - Design Site-Specific Response Spectrum Parameters

S_{DS}	1.389 g
S_{D1}	0.970 g
S_{MS}	2.083 g
S_{M1}	1.455 g

(h) The design Site-Specific Response Spectrum parameters S_{DS}, S_{D1}, S_{MS} and S_{M1} s in Table 9, are evaluated pursuant to Section 21.4 of ASCE 7-10.

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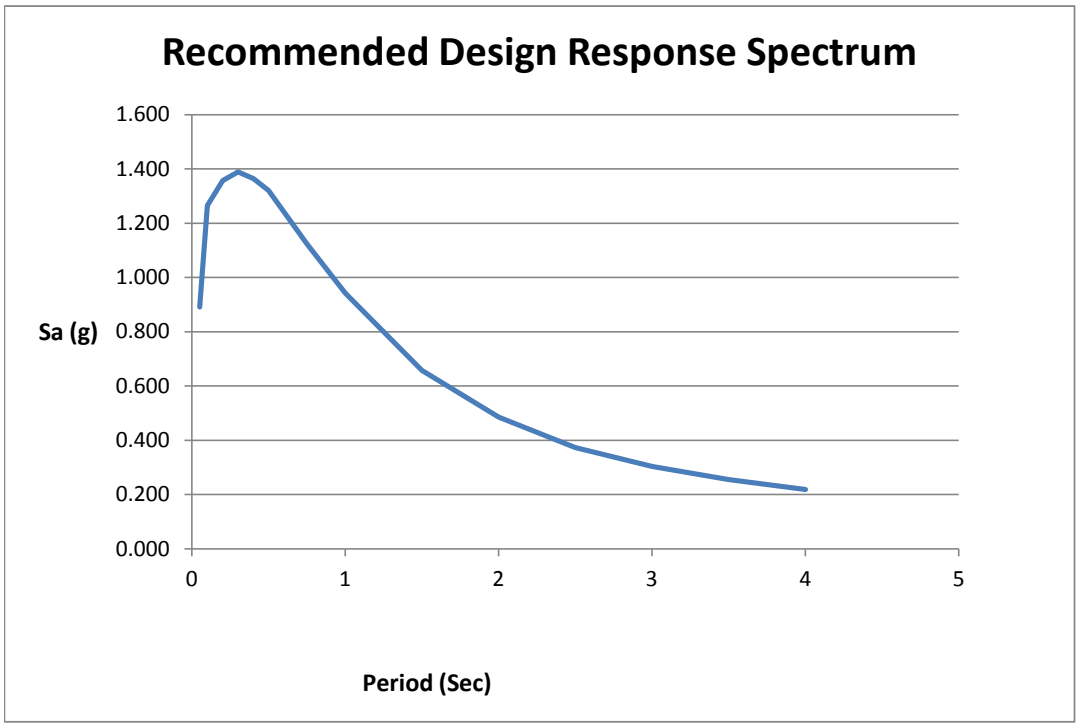

Figure 5 - Site-Specific Design Response Spectrum

APPENDIX F

Final Phase I Environmental Site Assessment

TETRA TECH

HY-T37254-4282
T37254-01

July 19, 2017

Jennifer Hilario, P.G.
Los Angeles Unified School District
Office of Environmental Health & Safety
333 South Beaudry Avenue, 21-223-07
Los Angeles, California 90017

Reference: FINAL PHASE I ESA FOR BELVEDERE MIDDLE SCHOOL, 312 NORTH RECORD AVENUE, LOS ANGELES, CALIFORNIA 90063

Dear Ms. Hilario:

Tetra Tech, Inc. is pleased to submit one electronic copy of the above-referenced report. If you have any questions or comments; feel free to e-mail or fax the undersigned. Tetra Tech appreciates the opportunity to provide you with the environmental services requested under this contract.

Sincerely,

TETRA TECH, INC.



Mark Feldman, CHG CEG
Lead Project Manager

MF:hy
Enclosure: As stated

Tetra Tech, Inc.
301 East Vanderbilt Way, Suite 450, San Bernardino, CA 92408-3559
Tel 909.381.1674 Fax 909.889.1391 www.tetratech.com

FINAL
PHASE I ENVIRONMENTAL SITE ASSESSMENT

BELVEDERE MIDDLE SCHOOL
312 NORTH RECORD AVENUE
LOS ANGELES, CALIFORNIA 90063



Prepared for

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21-223-07
Los Angeles, California 90017

July 12, 2017

Prepared by

Tetra Tech, Inc.
301 East Vanderbilt Way, Suite 450
San Bernardino, California 92408

FINAL
PHASE I ENVIRONMENTAL SITE ASSESSMENT

BELVEDERE MIDDLE SCHOOL
312 NORTH RECORD AVENUE
LOS ANGELES, CALIFORNIA 90063

Prepared for



Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21-223-07
Los Angeles, California 90017

July 12, 2017

Prepared by



Tetra Tech, Inc.
301 East Vanderbilt Way, Suite 450
San Bernardino, California 92408

T37254.01

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EXECUTIVE SUMMARY

Tetra Tech, Inc. (Tetra Tech) was contracted by the Los Angeles Unified School District (LAUSD) to conduct a Phase I Environmental Site Assessment (Phase I ESA) for Belvedere Middle School located at 312 North Record Avenue, Los Angeles, California 90063, referred to as the "Site" in this report. This Phase I ESA was conducted in general accordance with 40 CFR Part 312 - Standards and Practices for All Appropriate Inquiries (Environmental Protection Agency's AAI Rule) and the Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-13). The Phase I ESA included a site reconnaissance on July 6, 2017, review of historical aerial photographs and maps, interviews, and a regulatory agency database report review. In addition, a California Department of Education (CDE) Existing Schools Checklist was completed as a part of this assessment.

Site Description

The Site is located at 312 North Record Avenue, Los Angeles, California 90063 (Figure 1). The Site is currently developed as Belvedere Middle School, an approximately 12.1-acre site with fifteen permanent buildings, six relocatable classroom buildings, athletic field and associated paved driveways, parking areas, and landscaping. The Site is identified as Los Angeles County Assessor's Parcel Numbers (APNs) 5233-011-900 and 5233-012-912. Historically, the Site was largely developed with residential properties by the early 1920s. In addition, a road bisected the Site from north to south. By 1928, the residential dwellings on the western portion of the Site (west of the road) were developed with school buildings as a part of Belvedere Junior High School, and residential dwellings remained east of the road. By 1948, the road that bisected the Site was no longer present and by 1964, the remaining on-site residential properties were demolished for expansion of the Belvedere Junior High School property including athletic fields and additional school-related buildings.

Adjoining Property Description

The Site is located in an area of primarily residential properties. East Cesar E Chavez Avenue abuts the Site to the north, followed by various commercial business including retail stores and restaurants. Michigan Avenue abuts the Site to the south, followed by residential properties. Adjacent to the east of the Site are residential properties. North Record Avenue abuts the Site to the west, followed by residential properties. Historically, the adjoining properties appeared to largely be residential dwellings

as early as the 1920s with the adjoining properties fully developed for residential and commercial use by the 1930s.

Conclusions

This assessment has revealed no evidence of Recognized Environmental Conditions (RECs) in connection with the Site, except for the following:

- An on-site fuel bunker was observed on the south-central portion of Site, outside the east wall of the Shop building. Two 55-gallon drums of gasoline and one 55-gallon drum of diesel fuel were observed inside the concrete bunker. Areas of the floor within the fuel bunker were deteriorated; however, no leaks or stains were observed in the vicinity of the drums. During the site reconnaissance, a strong petroleum odor was noted within the fuel bunker. There is a potential for subsurface petroleum hydrocarbons and/or metals contamination in the area of the fuel bunker;

- A boiler room associated with the historic heating/cooling of the Administrative building was observed to contain older boiler equipment. No leaks, stains or odors were observed or detected in the vicinity of the older boiler room equipment. There is potential for significant petroleum hydrocarbon use associated with the operation of the historic boiler room equipment;

- A clarifier was observed on the southwestern portion of the Site, south of the South Classrooms building. No stains or odors were observed or detected in the vicinity of the clarifier. The clarifier was reportedly associated with the pottery/arts classroom in the South Classrooms building and is no longer utilized. There is potential for subsurface petroleum hydrocarbons and/or metals contamination associated with the use of the historic use of the clarifier;

- There is potential for the presence of lead-contaminated soils in the vicinity of the on-site buildings (historic and current) associated with the potential use of lead-based paint (LBP) in the buildings;

- There is potential for the presence of organochlorine pesticide (OCP) contaminated soils in the vicinity of the on-site buildings (historic and current) associated with the potential application of OCPs applied at wood building foundations for termite control; and

- There is potential for arsenic contaminated soils beneath the Site pavement due to LAUSD's former standard practice of applying herbicides containing arsenic prior to paving.

No other RECs were identified in connection with the Site from review of historic records, environmental database review, site reconnaissance, or interviews. In addition, although considered to be a "Non-Scope" issue as outlined in Section 13 of ASTM E 1527-13, the following Business Environmental Risks (BERs) were addressed and identified as a part of this assessment:

- There is potential for the presence of asbestos-containing materials (ACMs) and lead-based paint (LBP) at the on-site school buildings due to the age of the buildings (generally 1920s through 1960s).

- There is potential for the presence of PCB-containing light ballasts at the on-site school buildings due to the age of the buildings (generally 1920s through 1960s).

No other BERs were addressed and/or identified as a part of this assessment.

Recommendations

Preparation of a Preliminary Environmental Assessment Equivalent (PEA-E) scoping document is warranted in order to address the RECs identified during this assessment. The PEA-E scoping document should include a scope of work for the sampling, analysis and evaluation of on-site subsurface soil, soil vapor and/or groundwater (as appropriate) to determine the presence or absence of Chemicals of Concern (COCs), including petroleum hydrocarbons, volatile organic compounds (VOCs), metals including lead and arsenic and OCPs, as appropriate, to address the RECs identified.

CDE Existing Schools Checklist

Also, the following item was selected "yes" on the CDE Existing Schools Checklist was completed for the Site as a part of this assessment:

- **Air Pollution:** Belvedere MS is ranked #120 on the Priority List of Schools Most at Risk from Air Pollution. Although identified on the list, the project is not anticipated to create any new

significant safety hazards or exacerbate any existing safety hazards to students from a major transportation corridor within a 500-foot radius of the Site, or a major stationary source within a 500-foot radius of the Site.

SECTION 1
INTRODUCTION

Tetra Tech, Inc. (Tetra Tech) was contracted by the Los Angeles Unified School District (LAUSD) to conduct a Phase I Environmental Site Assessment (Phase I ESA) for Belvedere Middle School located at 312 North Record Avenue, Los Angeles, California 90063, referred to as the "Site" in this report. This Phase I ESA was performed by Tetra Tech on behalf of LAUSD in general accordance with 40 CFR Part 312 - Standards and Practices for All Appropriate Inquiries (Environmental Protection Agency's AAI Rule) and the Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-13) and the scope of work described in Tetra Tech's *Proposal and Cost Estimate for a Phase I Environmental Site Assessment* dated May 25, 2017.

1.1 PURPOSE

The goal of this Phase I ESA is to identify whether Recognized Environmental Conditions (RECs) are present on the Site. RECs are the presence or likely presence of any hazardous substances or petroleum products in, on, or at a Site: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not RECs (Section 1.1.1 E –1527 13, ASTM 2013).

This Phase I ESA is intended to satisfy one of the requirements for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability (hereafter "landowner liability protections" or LLPs); that is, the practices that constitute "all appropriate inquiry into the previous ownership and uses of the consistent with good commercial or customary practice," as defined at 42 United States Code (USC) Section 9601 (35)(B). Controlled substances are not included within the scope of this standard.

The assessment provided herein was determined based on the following:

1. Current and past Site uses and occupancies;

2. Current and past uses of hazardous substances;

3. Waste management and disposal activities that could have caused releases or threatened releases of hazardous substances;

4. Current and past corrective actions and response activities undertaken to address past and on-going releases of hazardous substances;

5. Engineering controls;

6. Institutional controls; and

7. Evaluation of properties adjoining or located nearby the subject Site that have environmental conditions that could have resulted in conditions indicative of releases or threatened releases of hazardous substances to the subject Site.

It is our understanding that LAUSD requested completion of this Phase I ESA due to planned comprehensive modernization projects at the Site, including the removal of two permanent buildings, modernization of four permanent buildings, removal of relocatable classroom buildings, upgrades to the infrastructure including sanitary sewer, water and electrical utility, and improvements to landscape, hardscape and exterior paint.

1.2 SCOPE OF WORK

The scope of work is based on using ASTM E 1527-13 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* to identify whether RECs are present on the Site.

Phase I ESAs are typically conducted in a four-phase process including:

- A visual site reconnaissance by an environmental professional to visually verify current land use in the area and to identify RECs that could impact the Site.
- Interviews and review of historical documents to reconstruct Site history and evaluate historic land use.
- Review and evaluation of the regulatory agency database report. The database search was performed by Environmental Data Resources (EDR) following ASTM guidelines. The search included environmental databases maintained by federal, state, tribal, and local agencies, and

contained information on sites with documented or suspected environmental violations within a specified radius of the Site.

- Preparation of a report that presents findings, conclusions, and recommendations for further investigation, if any.

Conclusions and recommendations are described in Section 8. Any deviations and data gaps from ASTM E 1527-13 are listed in Section 9. Report limitations are provided in Section 10. The resume of the Environmental Professional(s) preparing the report is provided in Appendix A.

With the exception of the selection criteria items on the CDE Existing Schools Checklist, other non-scope considerations, including those outlined in Section 13 of ASTM E 1527-13 were not included in the scope of work, with the exception of ACMs and LBP.

1.3 SIGNIFICANT ASSUMPTIONS

The findings documented in this report are based on the following assumptions:

- Information provided by the client and tenants/owners, if any, is accurate.
- Information provided in interviews is accurate.
- Information in public records accessed for the assessment is accurate.
- The Site use during time periods between historic data points (e.g. historical aerial photographs, etc.) was consistent with information evident in the historical information.
- No information was concealed or withheld that would change the report conclusions.

In addition, based on the Los Angeles County Assessor parcel information, historical map review, and site reconnaissance, the assumption was made that the potential current and historical addresses associated with the Site were the following:

- 312 North Record Avenue
- 300 North Record Avenue
- 320 North Record Avenue

1.4 LIMITATIONS AND EXCEPTIONS

This report was compiled based partially on information supplied to Tetra Tech from outside sources and other information in the public domain. The conclusions and opinions herein are based on the information Tetra Tech obtained in compiling the report. This information is on file at Tetra Tech's office in San Bernardino, California. Tetra Tech makes no warranty as to the accuracy of statements made by others which may be contained in the report, nor are any other warranties or guarantees, expressed or implied, included or intended by the report except that it has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. Because the facts forming the basis for the report are subject to professional interpretation, differing conclusions could be reached. Tetra Tech does not assume responsibility for the discovery and elimination of hazards that could possibly cause accidents, injuries, or damage. Compliance with submitted recommendations or suggestions does not assure elimination of hazards or the fulfillment of client's obligations under local, state, or federal laws or any modifications or changes to such laws. None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

1.5 USER RELIANCE

The term *User* is defined in ASTM E 1527-13 as "the party seeking to use Practice E 1527 to complete an environmental site assessment of the property. A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager."

ASTM E 1527-13 also prescribes time limitations for reliance on Phase I ESAs. In general, the results of a Phase I ESA conforming to the Practice may be relied upon for a period of 180 days. Following this date, certain elements of the Phase I ESA must be updated for the Phase I ESA to be relied upon.

For this report, the term User refers to the group of interested parties including the client who commissioned this report, and any lenders, developers, potential tenants, and others who together constitute the stakeholders of the client's team, and who the client determines have a valid need for the information in this Phase I ESA. These parties may rely on the results of this Phase I ESA to the extent, and within the time limits, prescribed by ASTM E 1527-13.

For this report, the term User does not include subsequent potential Site purchasers, their lenders, or prospective tenants who did not participate in the commissioning of this report, and are not involved in the present transaction concerning the site that prompted the Phase I ESA. Such subsequent parties shall rely on the results of this report at their own risk.

In lieu of conducting the User tasks outlined in the ASTM E 1527-13 the User (i.e. LAUSD) requested and assisted in the completion of the CDE Existing Schools Checklist. See Section 6 for a summary of the CDE Existing Schools Checklist.

1.6 STATEMENT OF QUALIFICATIONS

Tetra Tech is a leading provider of specialized management consulting and technical services in three principal business areas: resource management, infrastructure and communications. The Company's clients include a diverse base of public and private sector organizations serviced through more than 150 offices located in the United States and internationally.

Tetra Tech, San Bernardino has a staff of approximately 30 professional personnel. Our technical staff have demonstrated competence and ability in preparing environmental assessments through long-term working relationships with local commercial firms and government agencies.

Tetra Tech has conducted environmental assessments at a wide variety of properties including industrial, manufacturing, commercial, and residential sites. Tetra Tech has performed Phase I ESAs for a variety of entities including banks, private developers, county and city agencies, and commercial firms.

Tetra Tech personnel are well trained and have extensive experience in the acquisition and interpretation of the collected data. Data gathering efforts focus on historic aspects of site activities that would contribute to spills, leakage or disposal of hazardous materials and petroleum products. Identifying contaminant issues that could impede development of the Site, through either high costs or extended time periods for remedial actions, is a goal of data gathering and interpretation. Tetra Tech also identifies potential sources of contamination in the areas adjacent to the Site, such as leaking underground storage tanks that could impact the Site, and therefore become a Recognized Environmental Condition.

SECTION 2
SITE DESCRIPTION AND PHYSICAL SETTING

This section provides a brief description of the Site and the physical setting based on information obtained from the User and/or client and a records review prior to the site reconnaissance. Observations regarding the current land use of the Site and adjoining properties made during the site reconnaissance are described in Section 4, Site Reconnaissance.

2.1 SITE LOCATION AND LEGAL DESCRIPTION

The Site is located at 312 North Record Avenue, Los Angeles, California 90063 (Figure 2). The historic Site addresses of 300 and 320 North Record Avenue are associated with the school, as depicted on historical maps that cover the Site. Title records or a legal description for the Site was not provided by LAUSD for this assessment. The Site is identified as Los Angeles County APNs 5233-011-900 and 5233-012-912.

2.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The Site is located in an area of primarily residential properties, in a densely developed area of the City of Los Angeles, California.

2.3 CURRENT AND PAST USES OF THE SITE

The Site is currently owned by the LAUSD and developed as Belvedere Middle School, an approximately 12.1-acre site with fifteen permanent buildings, six relocatable classroom buildings, athletic field and associated paved driveways, parking areas and landscaping.

Historically, the Site was largely developed with residential dwellings by the early 1920s. In addition, a road bisected the Site from north to south. By 1928, the residential dwellings on the western portion of the Site (west of the road) were developed with school buildings as a part of Belvedere Junior High School, and residential dwellings remained east of the road. By 1948, the road that bisected the Site was no longer present and by 1964, the remaining on-site residential properties were demolished for expansion of the Belvedere Junior High School property including athletic fields and additional school-related buildings.

2.4 DESCRIPTION OF STRUCTURES, ROADS AND OTHER IMPROVEMENTS

The Site is currently developed as Belvedere Middle School, an approximately 12.1-acre site with fifteen permanent buildings, six relocatable classroom buildings, athletic field and associated paved driveways, parking areas and landscaping. The school buildings are primarily located on the western and central portions of the school, and the athletic field comprises the eastern portion of the school. An underground parking garage is located at the northwest-most building, known as the North Classrooms Building/Library. Paved parking and athletic areas are located on the south-central portion of the school.

The permanent buildings are largely constructed of concrete with stucco and/or tile exterior, and are largely finished with plaster and/or drywall walls, tiled ceilings and tiled or wood flooring. Site and area utilities and utility providers are summarized in the Table 1 below.

Table 1: Site and Area Utilities and Utility Providers

Utility	Provider
Electrical Utility	Southern California Edison
Natural Gas Utility	Southern California Gas Company
Source of Potable Water	California Water Service Company
Sewage Disposal	Los Angeles County Department of Public Works
Solid Waste Disposal	Republic Services

2.5 CURRENT AND PAST USES OF SURROUNDING PROPERTIES

East Cesar E Chavez Avenue abuts the Site to the north, followed by various commercial business including retail stores and restaurants. Michigan Avenue abuts the Site to the south, followed by residential properties. Adjacent to the east of the Site are residential properties. North Record Avenue abuts the Site to the west, followed by residential properties.

Historically, the adjoining properties appeared to largely be residential dwellings as early as the 1920s with the adjoining properties fully developed for residential and commercial use by the 1930s.

2.6 PHYSICAL SETTING

2.6.1 General Site Setting

The Site is depicted on the Los Angeles, California Quadrangle, U.S. Geological Survey, 7.5 minute topographic series (2012) (Figure 1). This location is in Section 31, Township 1 South, Range 12 West, San Bernardino Baseline and Meridian (SBBM). The approximate latitude and longitude of the Site is 34°2'21.56''north and 118°10'53.80'' west. Based on the topographic map, the Site is located at approximately 315 feet above mean sea level (MSL). The topographic gradient of the Site is generally to the east-southeast.

Physical setting source information is provided by EDR and is included as a part of the EDR Radius Map™ Report with GeoCheck® in Appendix B. USGS digital topographic data was the primary physical setting source for this Phase I ESA. The following map covers the Site area:

- USGS 7.5' Topographic Map – 5630795-Los Angeles, California

According to the Physical Setting Source Summary, the Site is not located within 100 year and 500 year flood zones. Based on the U.S. Department of Agriculture's Soil Conservation Service SSURGO data, the predominant soil component in the area is listed as Urban Land, characterized as being too disturbed for an accurate study.

2.6.2 Geologic Setting

The Site is located within the Peninsular Ranges geomorphic province, which consists of a northwest-southeast oriented complex of blocks separated by faults. The province extends 125 miles from the Transverse Ranges and the Los Angeles Basin south to the Mexican border and beyond. The province is bounded on the east by the Colorado Desert and the Gulf of California. Drainage is primarily to the west by the San Diego, San Dieguito, San Luis Rey, and Santa Margarita rivers. The main stream flowing east is San Felipe Creek, which enters the Salton Sea. A number of distinctive erosional surfaces are identified within the province. These include the Perris Plain, a broad, flat surface dotted with bedrock hills formed from residual knobs of resistant rock (Norris and Webb, 1990).

The Site is mapped on the California Department of Conservation, California Division of Mines and Geology, 2010 Geologic Map of California at http://www.quake.ca.gov/gmaps/GMC/

stategeologicmap.html as Pleistocene-age, marine and nonmarine sedimentary rocks and include older alluvium, lake, playa and terrace deposits. The Site is depicted southwest of the East Montebello Fault on the map. In addition, a review of the available California Department of Conservation, Regulatory Maps at http://www.quake.ca.gov/gmaps/WH/regulatorymaps.htm indicated that the Site is not depicted in any Special Studies Zones (i.e. Alquist Priolo [AP] Earthquake Fault Zones, and Landslide and Liquefaction Zones).

2.6.3 Hydrogeology

The GeoTracker website operated by the State Water Resources Control Board (SWRCB) at http://geotracker.waterboards.ca.gov/ was reviewed for information on depth to groundwater in the Site vicinity. A property approximately 1,500-feet west of the Site, Cesar Rowan, LLC, located at 3560 Cesar E. Chavez Avenue was listed as a recently closed Leaking Underground Storage Tank (LUST) case site. According to the December 14, 2015 approved Low Risk Case Closure Review form, depth to groundwater was generally 81 to 85 feet below ground surface with a groundwater flow direction generally to the southeast (SWRCB 2017).

2.6.4 Hydrology

No surface water was identified on or near the Site.

SECTION 3
RECORDS REVIEW

The purpose of the records review is to obtain and review records that will help identify RECs in connection with the Site.

3.1 REGULATORY AGENCY DATABASE REVIEW

Federal, state, regional, and local records were reviewed to assess whether the Site or properties in the vicinity have experienced significant unauthorized releases of hazardous substances or other events with potentially adverse environmental effects. Environmental Data Resources, Inc. (EDR), a Tetra Tech subcontractor, performed a database search of the Site in accordance with current ASTM standards. A copy of this report is included as Appendix B.

The databases searched have been developed and are updated by federal, state, tribal, and local agencies. While these databases in general are reliable and comprehensive, there have been cases where the data presented is out of date and no longer reflective of actual site conditions. The section titled "Government Records Searched/Data Currency Tracking" of the EDR report in Appendix B identifies when each database was updated.

A review of the sites listed within the EDR Radius Map™ Report with GeoCheck® was conducted. The Site was identified in databases in the EDR Radius Map™ Report with GeoCheck® and is summarized in Section 3.1.1. Table 3 in Section 3.1.2 provides a summary of other pertinent database listings within the search radius for the Site (i.e. off-site). There were no RECs in connection with the Site identified in review of the EDR Radius Map™ Report with GeoCheck®.

3.1.1 Subject Site Database Findings

The Site, identified as LAUSD-Belvedere Middle School at 312 North Record Avenue was listed on several of the databases in the EDR Radius Map™ Report with GeoCheck®. Table 2 below provides a summary of the Site database listings and status. The Site is not listed in the EDR Radius Map Report™ with GeoCheck© as having any violations, past releases or active remediation; therefore, these database listings are not considered to be a REC in connection with the Site.

Table 2: Site Listings on the EDR Radius Map™ Report with GeoCheck®

Database		Status of Listing
EMI	Air Resources Board, California Emission Inventory Data – emissions data collected by the Air Resources Board and local air pollution agencies	The 1990 listing for the Site provides no emissions data.
FINDS	Facility Index System/Facility Registry System – contains facility information and "pointers" to other database sources that contain more detail	The listings suggests that the Site is listed on the HAZNET and RCRA Generators databases, and no other pertinent information is provided.
ECHO	Environmental Protection Agency, Enforcement and Compliance History database	No pertinent information regarding the Site is provided on the ECHO database.
Los Angeles CO. HMS	Industrial Waste and UST sites permitted by the Los Angeles County Department of Public Works	The Site is listed as an "open" facility status suggesting that the Site is currently permitted with the Los Angeles County Department of Public Works. The Facility ID is listed as 000744-I00753.

Database		Status of Listing
RCRA Generators (RCRA-SQG, RCRA-LQG and RCRA-CESQG)	Resource Conservation and Recovery Act – Small and Large Quantity Hazardous Waste Generators and Conditionally Exempt Small Quantities Generators; information on sites which generate, transport, store treat and/or dispose of hazardous waste	The Site is currently a permitted SQG of hazardous waste with no violations found. The Site was historically listed as a LQG. The hazardous wastes listed as having been generated included cadmium, chromium and lead.
HAZNET	Facility and Manifest Data – data from hazardous waste manifests received by the California Department of Toxic Substances Control.	The Site is listed as having had disposed of asbestos-containing wastes and other inorganic solid wastes under hazardous waste manifest in the years 2007, 2010, 2012 and 2014.

In addition to the above, the Site is not listed on the Environmental Liens (LIENS and LIENS 2), Department of Toxic Substances Control, Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions (DEEDS), and US Engineering Controls (US ENG CONTROLS) or US Institutional Controls (US INST CONTROLS) databases, indicating that no environmental liens, Activity and Use Limitations (AULs), engineering or institutional controls are recorded against the Site or reported to be in-place at the Site.

3.1.2 Off-site Database Findings

The databases searched, the associated search radius, the distances from the Site, and the evaluation of potential RECs from off-site listings is summarized in Table 3 below:

Table 3: Summary of Off-site Listings within Search Radius for Belvedere Middle School

Database		Search Radius	Total Sites/Listings Identified	REC Evaluation
State- and Tribal CERCLIS/ ENVIROSTOR	California Department of Toxic Substances Control's (DTSC) Site Mitigation and Brownfields Reuse Program; identifies sites that have known contamination or sites for which there may be reasons to investigate further	1-mile	7	All listed cases are closed or do not require further action. Not considered to be a REC in connection to the Site.
LUST	List of Leaking Underground Storage Tank (LUST) sites with the local Regional Water Quality Control Board (RWQCB)	0.5-mile	14	All listed LUST cases reportedly closed. Not considered to be a REC in connection to the Site.

Database		Search Radius	Total Sites/Listings Identified	REC Evaluation
RCRA Generators (RCRA-SQG, RCRA-LQG and RCRA-CESQG)	Resource Conservation and Recovery Act – Small and Large Quantity Hazardous Waste Generators and Conditionally Exempt Small Quantities Generators; information on sites which generate, transport, store treat and/or dispose of hazardous waste	0.25-mile	2	Permitted hazardous waste generator with no violations reported. Not considered to be a REC in connection to the Site.
SWF/LF/ WMUDS/SWAT	State, Tribal and Local Landfill and/or Solid Waste Disposal Site Lists; Inventory of solid waste disposal facility or landfills	0.5-mile	5	No violations or active remedial cases associated with the listings; sites generally listed as closed. Not considered to be a REC in connection to the Site.

Database		Search Radius	Total Sites/Listings Identified	REC Evaluation
HIST CORTESE	Historical LUST database.	0.5-mile	7	Historical only. These sites are covered under more recent databases (such as the LUST). Listings are not considered to be a REC in connection to the Site.
Notify 65	Listing of Proposition 65 incidents reported to counties by the State Water Resources Control Board. Database no longer updated.	1-mile	2	These sites are covered under more recent databases. Listings are not considered to be a REC in connection to the Site.

Other sites, including four "orphan" (i.e. unmappable sites) were listed within ASTM recommended search distances. However, due to: (1) the type of listing, (2) distance from the Site, (3) location of the site with respect to assumed regional groundwater flow, (4) topographical features, and/or (5) status of the listed sites, these nearby properties are not considered to be RECs in connection with the Site.

3.2 VAPOR ENCROACHMENT SCREEN

Tetra Tech completed an initial vapor encroachment screen to determine if a potential vapor encroachment condition (VEC) exists in the subsurface below existing on-site structures from hazardous substances, petroleum, and petroleum products that can include volatile organic compounds (VOCs),

semi-VOCs (SVOCs), and inorganic volatile compounds. The Tier 1 non-invasive vapor encroachment screen was performed in accordance with the chemicals of concern and approximate minimum search distances included in ASTM E 2600-10 "Standard Guide for Vapor Encroachment Screening on Site Involved in Real Estate Transactions." The following minimum search distances as outlined in ASTM E 2600-10 (ASTM 2010) are summarized in Table 4 below.

Table 4: VEC Area of Concern – Approximate Minimum Search Distances Surrounding the Site

Area of Concern Approximate Minimum Search Distances Surrounding the Site (miles)		
Standard Environmental Record Sources (where available)	**Chemicals of Concern**	**Petroleum Hydrocarbon Chemicals of Concern**
Federal NPL	1/3	1/10
Federal CERCLIS	1/3	1/10
Federal RCRA CORRACTS	1/3	1/10
Federal RCRA non-CORRACTS TSD	1/3	1/10
Federal RCRA Generators	Site Only	Site Only
Federal Institutional Control/Engineering Control	Site Only	Site Only
Federal ERNS	Site Only	Site Only
State and Tribal-equivalent NPL	1/3	1/10
State and Tribal-equivalent CERCLIS	1/3	1/10
State and Tribal Landfill or Solid Waste Disposal Sites	1/3	1/10
State and Tribal LUST	1/3	1/10
State and Tribal UST	Site Only	Site Only
State and Tribal Institutional Control/Engineering Control	Site Only	Site Only

Area of Concern Approximate Minimum Search Distances Surrounding the Site (miles)		
Standard Environmental Record Sources (where available)	**Chemicals of Concern**	**Petroleum Hydrocarbon Chemicals of Concern**
State and Tribal Voluntary Cleanup	1/3	1/10
State and Tribal Brownfield	1/3	1/10

Based on the results of the initial vapor encroachment screening, several facilities with chemicals of concern were identified in the EDR Radius Map™ Report with GeoCheck® within the minimum search distances. However, due to: (1) the type of listing, (2) distance from the Site, (3) location of the site with respect to assumed regional groundwater flow, (4) topographical features, and/or (5) status of the listed sites, these nearby sites are not considered to be RECs in connection with the Site; thus vapor encroachment is not a concern.

3.3 HISTORICAL REVIEW

3.3.1 Aerial Photograph Review

Historical aerial photographs of the Site were reviewed for 1923, 1928, 1938, 1948, 1952, 1964, 1972, 1977, 1983, 1989, 1994, 2002, 2005, 2009, 2010 and 2012.

- The 1923 photograph depicts the area of the Site and its immediate environs as developed with residential properties; few vacant lots are noted throughout the area of the photograph. The Site is depicted as having several residential properties with a road traversing north-south through the center of the Site. The existing roadways that abut the property to the north, south and west are depicted on the photograph (Cesar E. Chavez Avenue, Michigan Avenue, and North Record Avenue, respectively).

- The 1928 photograph depicts the western portion of the Site as developed with several structures for the existing school. The southeastern corner of the Site is depicted as a paved parking lot. The remainder of the Site is depicted as residential properties. The surrounding area is depicted as densely developed, primarily with residential properties and scattered commercial properties.

- The 1938 photograph depicts additional structures on the central portion of the Site as a part of the existing school. No other significant changes were noted to the Site, adjoining properties or surrounding area.

- The 1948 photograph no longer depicts the road bisecting the Site from north to south, and several of the on-site residential properties on the eastern portion of the Site are depicted as being demolished. No other significant changes were noted to the Site, adjoining properties or surrounding area.

- The 1952 photograph depicts an additional large structure on-site as a part of the existing school. No other significant changes were noted to the Site, adjoining properties or surrounding area.

- The 1964 photograph no longer depicts the residential properties on the eastern portion of the Site; this area appears to be a part of an athletic field for the existing school. In addition, several smaller structures depicted earlier in the southwest corner of the Site (1952) appeared to have been replaced with larger structures. With the exception of vacant land noted in the select adjoining areas, no other significant changes were noted to the Site, adjoining properties or surrounding area.

- The 1972 photograph depicts the addition of a structure in the northwest corner of the Site, as well as two additional structures on the western portion of the property. The Highway 60/Pomona Freeway is depicted further south of the Site. The adjoining properties and greater surrounding area remained densely developed primarily as residential properties with scattered commercial properties.

- No significant changes were noted to the Site, the adjoining properties or the surrounding area in the 1977 photograph reviewed.

- The 1983 photograph depicted two additional structures as a part of the existing school on-site. No other significant changes were noted to the Site, the adjoining properties or the surrounding area.

- The 1989 photograph depicts additional smaller structures on the southern portion of the school near the Michigan Avenue. No other significant changes were noted to the Site, the adjoining properties or the surrounding area.

- No significant changes were noted to the Site, the adjoining properties or the surrounding vicinity in the 1994, 2002 and 2005 photographs reviewed.

- The 2009 and 2010 photographs depict apparent storage containers on the south-central portion of the existing school. No other significant changes were noted to the Site, the adjoining properties or the surrounding area.

- No significant changes were noted to the Site, the adjoining properties or the surrounding area in the 2012 photograph reviewed, with the exception that the previously noted storage containers were no longer depicted in the photograph.

No RECs were identified from historical aerial photograph review. Historical aerial photographs that depict change in land use are provided in Appendix C.

3.3.2 Historical Map Review

Historical topographic maps were reviewed for years 1894, 1896, 1900, 1924, 1926, 1953, 1966, 1972, 1981, 1994 and 2012.

- The 1894, 1896 and 1900 maps depict no structures or roads on the Site. The surrounding area of the Site is depicted as developed with roads and a few structures. A stream channel is depicted directly southeast of the Site and traverses northeast to southwest. Evergreen Cemetery is depicted approximately 1-mile west of the Site. A densely developed area with numerous roads and structures, in the area of current day Boyle Heights, is depicted southwest of the cemetery and approximately 1-mile west of the Site.

- The 1924 and 1926 maps depict a road which bisects the Site from north to south; a long, narrow structure borders the road on the east side. Three additional structures are depicted on the Site. The adjoining properties and surrounding area of the Site are depicted as densely developed with

roads and structures. The surrounding area of the Site is labeled as Wellington Heights on the maps.

- The 1953 map depicts the Site as Belvedere Junior High School with several school-related structures. The road previously noted as bisecting the Site is no longer depicted. The adjoining properties and surrounding area are depicted as densely developed.

- The 1966 map depicts additional structures on the Site as a part of Belvedere Junior High School. The existing Interstate 710 is depicted approximately ¾-mile east of the Site. The adjoining properties and surrounding area are depicted as densely developed.

- The 1972 map depicts additional structures on the Site as a part of Belvedere Junior High School. The adjoining properties and surrounding area remained depicted as densely developed.

- The 1981 map depicts an additional structure on the central portion of the Site as a part of Belvedere Junior High School. The adjoining properties and surrounding area remained depicted as densely developed.

- No significant changes were noted to the Site, the adjoining properties or the surrounding area in the 1994 map.

- The 2012 map depicts the Site, adjoining properties and surrounding area as a densely developed area. No specific structures or other uses were depicted on the Site, adjoining properties or surrounding area.

No RECs were identified from historical topographic map review. The historical topographic maps are provided in Appendix D.

In addition, a check for historical fire insurance maps was conducted by EDR. Sanborn® historical fire insurance maps were reviewed for years 1921, 1949 and 1970.

- The 1921 map depicts the Site as two separate parcels bisected from north to south by a road, depicted as Richards Avenue. The Site is depicted as lots developed as residential dwellings or with no depicted use. The adjoining properties and the surrounding area are depicted as primarily

residential dwellings. The existing roadways that abut the Site to the north, south and west are depicted on the map and noted as Brooklyn Avenue, Michigan Avenue, and Records Avenue, respectively.

- The 1949 map depicts the western portion of the Site as developed with Belvedere Junior High School, and includes various buildings. The Site remained depicted as being bisected from north to south by a road, depicted as North Bonnie Beach Place. Adjoining properties are depicted primarily as residential properties or with no depicted use.

- The 1970 map no longer depicts the Site as being bisected from north to south by a road, and the existing school boundary is depicted. Additional buildings are depicted on the map as a part of the Belvedere Junior High School development. Adjoining properties are depicted primarily as residential properties, with commercial properties depicted north of the school along Brooklyn Avenue (currently Cesar E. Chavez Avenue).

No RECs were identified from review of historical fire insurance maps. The Sanborn® historical fire insurance maps are provided in Appendix D.

3.3.3 City Directory Review

A check of City Directories was conducted by EDR. The Site address of 312 North Record Avenue was listed as Belvedere Junior High School and associated listings indicative of a school from the 1942 through 2014 city directories researched. Surrounding listings appear to be primarily residential listings. No RECs were identified in a review of the city directories. A copy of the EDR City Directory Abstract is provided in Appendix E.

3.3.4 Building Permit Review

A complete EDR-Building Permit Report was ordered for the Site; however, no building permits were found for the Site. A copy of the EDR-Building Permit report is provided in Appendix F.

SECTION 4
SITE RECONNAISSANCE

Reconnaissance of the Site was conducted on July 6, 2017 by Ms. Heidi Yavornicky, Senior Environmental Scientist, Tetra Tech, Inc. Ms. Yavornicky is a Qualified Environmental Professional, in accordance with ASTM E 1527-13. Ms. Jennifer Hilario of LAUSD, Office of Environmental Health and Safety, and Mr. Bryan Luevano, the on-site representative for Belvedere Middle School accompanied Tetra Tech through portions of the site reconnaissance. There was no access to observe the elevator machine(s) room as no key was available on-site for access.

The site reconnaissance primarily focused on the buildings of the school which are proposed for removal/modernization, as well as any area of potential environmental concern. Photographs were taken of general Site areas and of specific features of potential interest or concern. The Site perimeter was observed for the purpose of identifying any areas where conditions on adjoining properties might impact the Site. Photographic documentation of the site reconnaissance is presented in Appendix G.

4.1 GENERAL SITE SETTING AND OBSERVATIONS

4.1.1 Site Description

The Site is located in an area of primarily residential properties in a densely developed area of the City of Los Angeles.

4.1.2 Current Site Use

The Site is currently developed as Belvedere Middle School, an approximately 12.1-acre site with fifteen permanent buildings, six relocatable classroom buildings, athletic field and associated paved driveways, parking areas and landscaping.

4.2 SPECIFIC SITE RECONNAISSANCE ITEMS

4.2.1 Storage of Hazardous Substances and Petroleum Products

The following hazardous substances and/or petroleum products were observed during the site reconnaissance:

- Fuel bunker – south-central portion of Site outside the east wall of the Shop building (Photographs 11 and 12); two 55-gallon drums of gasoline and one 55-gallon drum of diesel fuel were observed inside a concrete "fuel bunker". Areas of the floor within the fuel bunker were deteriorated; however, no leaks or stains were observed in the vicinity of the drums. A strong petroleum odor was noted within the fuel bunker. Due to the longtime use of the fuel bunker for fuel storage and potential for subsurface petroleum hydrocarbons and/or metals contamination, the fuel bunker is considered to be a REC in connection with the Site;

- Plant Manager's Office building – central portion of Site; adjacent to the north of the Shop Building; 1- to 5-gallon buckets of paints, floor cleaners, other cleaners associated with the upkeep of the school facilities were observed inside the building (Photograph 8). No leaks, stains or odors were observed or detected in the vicinity of these materials. The storage and use of these materials for upkeep of the school facilities is not considered to be a REC in connection with the Site;

- Main janitorial closet in Administrative building and janitorial closets within other school buildings – less than 5 gallons of cleaners and soaps were observed inside on-site janitorial closets associated with the upkeep of the school facilities. No leaks, stains or odors were observed or detected in the vicinity of these materials. The storage and use of these materials for upkeep of the school facilities is not considered to be a REC in connection with the Site; and

- Shop building – south-central portion of Site; first floor classroom stores art supplies including paints and adhesives (Photograph 9); no leaks, stains or odors were observed or detected in the vicinity of these materials. The storage and use of these materials for use by the students for school instruction is not considered to be a REC in connection with the Site.

In addition, the following evidence of historical hazardous substances and/or petroleum products were observed during the site reconnaissance:

- Shop building – south-central portion of Site; a former wood shop room is located on the first floor of the building. A floor drain was observed inside the room. No stains or odors were observed in the area of the floor drain, and the room was observed to be utilized for school instruction and related materials;

- Shop building – south-central portion of Site; a former photographic developing room (i.e. dark room) was observed on the second floor of the building; no stains or odors were observed or detected in the former photographic developing room. The room is utilized for various storage of school supplies. The historic use of the room for photographic developing as a part of school instruction is not considered to be a REC in connection with the Site; and

- Administrative building – a classroom within the building was formerly utilized for chemistry instruction and had gas nozzles on select desks within the room. The historic use of gases associated with chemistry instruction is not considered to be a REC in connection with the Site.

4.2.2 Hazardous Waste

No evidence was observed of storage or discharge of hazardous waste at the Site.

4.2.3 Landfills, Dumps, Burials, or Solid Waste Disposal

No landfills, dumps, or evidence of burial activities were observed at the Site.

4.2.4 Storage Tanks

Aboveground Storage Tanks

Although not observed during the site reconnaissance, a diesel emergency generator is located in the ground level of the Library/North Classrooms building. The use of an on-site diesel emergency generator is not considered to be a REC in connection with the Site. There were no indications of any ASTs on the Site.

Underground Storage Tanks

There were no indications of any USTs on the Site.

Drums or Other Containers

Drums and containers of hazardous substances and petroleum products were observed during the site reconnaissance and summarized in Section 4.2.1 above.

4.2.5 PCB-Containing Equipment

There was no access to observe the elevator machine(s) room as no key was available on-site for access. Although not observed, Mr. Bryan Luevano, the on-site representative for Belvedere Middle School indicated that the on-site elevators are maintained by an outside contractor. The use of on-site elevators is not considered to be a REC in connection with the Site.

One utility-owned, pad-mounted transformer was observed on the western portion of the school outside the Administrative building (Photograph 2). No leaks or stains were observed in the vicinity of the transformer. The use of the utility-owned, pad-mounted transformer on-site is not considered to be a REC in connection with the Site.

Dry-type electrical transformers were observed in several electrical rooms as well as the boiler room in the Administrative building. No leaks or stains were observed in the vicinity of the dry-type electrical transformers, and the use of these transformers is not considered to be a REC in connection with the Site.

Lighting appeared to have been updated, but there is potential for PCB-containing light ballasts to be present on the Site. The presence of potential PCB-containing light ballasts is considered to be a BER in connection with the Site.

No apparent polychlorinated biphenyls (PCB) containing electrical or mechanical equipment was observed at the Site.

4.2.6 HVAC System and Fuel Source

A boiler room associated with the historic heating/cooling of the Administrative building was observed to contain older boiler equipment (Photograph 10). No leaks, stains or odors were observed or detected in the vicinity of the older boiler room equipment, and no evidence of an active petroleum-based heating fuel source was observed at the Site. The use of the historic boiler room equipment on-site is considered to be a REC in connection with the Site due to the potential for petroleum hydrocarbon use associated with the operation of the historic boiler room equipment.

4.2.7 Drains, Sumps, Pits, Cisterns, Cesspools

A clarifier was observed on the southwestern portion of the Site, south of the South Classrooms building. No stains or odors were observed or detected in the vicinity of the clarifier. The clarifier was reportedly

associated with the pottery/arts classroom in the South Classrooms building and is no longer utilized. The clarifier is considered to be a REC in connection with the Site due to the potential for subsurface petroleum hydrocarbons and/or metals contamination associated with the use of the clarifier.

According to drawings of the school provided by Ms. Jennifer Hilario of LAUSD, a cesspool was historically located on the northern portion of the school, in the area of an existing garage utilized to store landscaping maintenance equipment. Due to the redevelopment of the area of the cesspool and public sewer service having since been installed at the Site, this historic cesspool is not considered to be a REC in connection with the Site.

No other suspect floor drains, pits, sumps, cisterns, cesspools or similar receptacles where liquids drain, collect, or are stored were observed at the Site.

4.2.8 Pits, Ponds, Lagoons

No pits, ponds, lagoons or open pools likely to contain hazardous substances or petroleum products or waste were observed on the Site or adjoining properties.

4.2.9 Stains or Corrosion on Soil or Pavement

No interior or exterior stains or corrosion were observed at the Site.

4.2.10 Areas of Dead, Distressed, Discolored or Stained Vegetation

No areas of dead, distressed, discolored or stained vegetation that may be indicative of RECs were observed on the Site.

4.2.11 Possible Fill or Grading

Since the Site is developed, grading has most likely occurred. It is unknown if fill materials were required. No information regarding possible fill (import) or previous grading activities was available during the site reconnaissance. The likelihood of the use of potentially contaminated fill materials in any on-site grading activities is considered to be low and therefore not considered to be a REC in connection with the Site.

4.2.12 Smells of Chemical Gases, Petroleum Products, or Noxious Odors

A strong petroleum odor was noted within the fuel bunker. See Section 4.2.1 for further information.

4.2.13 Stormwater

Stormwater flows into the on-site and surrounding stormwater management system including on-site storm drains, curbs and gutters in the adjoining streets.

4.2.14 Wells and Potable Water Supply

There was no evidence of on-site potable water supply well. This area is supplied by the public water system.

No dry wells, irrigation wells, injection wells, or abandoned wells or other wells were observed on the Site.

4.2.15 Asbestos-Containing Building Materials

The information provided in this section is for general informational purposes only and does not constitute an asbestos survey. In addition, the information is not intended to comply with federal, state, or local regulations in regards to asbestos-containing material (ACM).

While the use of asbestos in the manufacture of most building materials has not been fully prohibited by federal law, the use of asbestos, for the most part, has voluntarily been discontinued since the late 1970s. Some non-friable materials, such as roofing material and floor coverings (floor tile and mastic) may been manufactured with ACM and may have been used into the early 1980s.

The Site buildings were constructed in the 1920s; therefore, it is possible that asbestos is present in building materials. Asbestos Hazard Emergency Response Act (AHERA) surveys, operations and maintenance (O&M) records, and disposal records are maintained on-Site for all known ACM on the Site. The potential for ACM associated with the on-site structures is considered to be a BER associated with the Site.

An asbestos survey was not conducted as part of this Phase I ESA.

4.2.16 Lead-Based Paint (LBP)

The information provided in this section is for general informational purposes only and does not constitute a LBP survey. In addition, the information is not intended to comply with federal, state, or local regulations in regards to LBP.

There is potential for the presence of LBP at the on-site school buildings due to the age of the buildings (generally 1920s through 1960s). The potential for LBP associated with the on-site structures is considered to be a BER associated with the Site.

A LBP survey was not conducted as a part of this Phase I ESA.

4.2.17 Radon

Radon is a gas that can seep into structures constructed in areas with soils containing uranium. Radon travels through soil and enters the structure through cracks and holes in basement walls or floor drains, or other openings. According to the California Geological Survey (CGS) Radon Potential Zone Map for Southern Los Angeles County, California (published in January 2005), the Site has a low potential for indoor radon levels above 4.0 Picocuries per liter (pCI/L). Area radon testing by zip code is provided in the EDR Radius Map™ Report with GeoCheck®, which indicates that none of three radon tests in the 90063 area code testing greater than 4.0 pCI/L.

A radon survey was not conducted as part of this Phase I ESA.

4.2.18 Other Site-Specific Environmental Conditions

There were no other site-specific environmental conditions noted during the site reconnaissance, except for the following:

- A former agricultural instruction area is located on the southwestern portion of the school as a part of former Home Economics school instruction. The former use of this area for a plant nursery as a part of school instruction is not considered to be a REC in connection with the Site.

In addition, although not considered an environmental condition, the following was also noted during the site reconnaissance:

- Several patched boreholes in the vicinity of the Shop building and Physical Education building observed were reportedly due to recent geotechnical assessment, as commented by Mr. Bryan Luevano, the on-site representative for Belvedere Middle School during the reconnaissance.

4.3 VICINITY RECONNAISSANCE

The Site is located in an area of primarily residential properties. East Cesar E Chavez Avenue abuts the Site to the north, followed by various commercial business including retail stores and restaurants. There were no commercial business of environmental concern, such as a dry cleaners or fuel service station observed adjoining to the Site.

4.3.1 Adjacent Properties

East Cesar E Chavez Avenue abuts the Site to the north, followed by various commercial business including retail stores and restaurants. Michigan Avenue abuts the Site to the south, followed by residential properties. Adjacent to the east of the Site are residential properties. North Record Avenue abuts the Site to the west, followed by residential properties.

4.3.2 Potential for Contamination from Adjacent Properties

No potential areas for contamination were observed on adjacent properties at the time of site reconnaissance.

SECTION 5
INTERVIEWS

In lieu of conducting owner, occupant, manager, and neighbor interviews as outlined in the ASTM E 1527-13 the Client (i.e. LAUSD) requested and assisted in the completion of the CDE Existing Schools Checklist. See Section 6 for a summary of the CDE Existing Schools Checklist.

5.1 INTERVIEW WITH OWNER, OCCUPANT, MANAGER AND NEIGHBOR INTERVIEWS

The LAUSD provided a previous Phase I ESA conducted for the Site, summarized below.

Waterstone Environmental, Inc., Belvedere Middle School, Phase I ESA Report, 2017

In February 2017, Waterstone Environmental, Inc. (Waterstone) completed a Phase I ESA of the Site for LAUSD, Office of Environmental Health and Safety. LAUSD had requested the Phase I ESA for assessment of the school prior to upcoming improvements associated with the Drought Response Outreach Program for Schools and American with Disabilities Act Path of Travel upgrades.

Items to note from the Waterstone Phase I ESA of the Site included the following:

- Prior to 1920, the Site was either vacant/agricultural land with several residential dwellings developed. In addition, a road bisected the Site from north to south. By 1928, the residential dwellings on the western portion of the Site (west of the road) were developed with school buildings as a part of Belvedere Junior High School, and residential dwellings remained east of the road. By 1948, the road that bisected the Site was no longer present and by 1964, the remaining on-site residential properties were demolished for expansion of the Belvedere Junior High School property including athletic fields and additional school-related buildings.

- The site reconnaissance by Waterstone personnel noted the following: two 55-gallon gasoline drums and one 55-gallon diesel drum inside a concrete bunker; chemical storage primarily in the Plant Manager's Office (i.e. Utility building), including paints, universal wastes, cleaning supplies and materials utilized for maintenance of equipment; small volumes of chemicals in Science classrooms for instructional purposes; and a diesel emergency generator on the ground level of the Library/North Classrooms building.

- Waterstone noted the following RECs in connection with the Site as it applies to the Drought Response Outreach Program for Schools and American with Disabilities Act Path of Travel upgrades:
    - Lead-based paint associated with the on-site school buildings (potential for lead-contaminated soil in the vicinity of the school buildings;
    - Organochlorine pesticide (OCP) contamination associated with the on-site school buildings (potential for OCP contaminated soil in the vicinity of the school buildings due to potential OCPs applied at wood building foundations for termite control; and
    - Potential arsenic contamination beneath school pavement due to LAUSD's former standard practice of applying herbicides containing arsenic prior to paving.
- Waterstone noted the following other items in connection with the Site:
    - The potential for ACMs and LBP in the on-site buildings;
    - The presence/use of the on-site concrete fuel bunker; and
    - The presence/historic use of the on-site clarifier.
- Based on the outcome of their assessment, Waterstone had the following recommendations:
    - Sampling for Chemicals of Concern (COCs) associated with the potential for lead in soil due to the potential for LBP associated with the on-site school buildings and application of OCPs and arsenic on-site.
    - Assessment of the school buildings for ACMs and LBP prior to any building modifications;
    - Assessment of the concrete fuel bunker for petroleum hydrocarbons and volatile organic compounds (VOCs) prior to construction and/or demolition activities; and
    - Assessment of the on-site clarifier for potential VOCs and metals impacts prior to any construction and/or demolition activities.

5.2 INTERVIEW WITH LOCAL GOVERNMENT OFFICIALS

According to ASTM E 1527-13, Section 8.1.4.2, information that has been requested must be reasonably ascertainable as part of conducting the Phase I ESA. Information that is reasonably ascertainable per ASTM means that information will be provided by the source within 20 calendar days of receiving a written, telephone, or in-person request. Tetra Tech also uses professional discretion in determining if a particular source is likely to provide usable and actionable information regarding the site and the goals of this Phase I ESA. Copies of responses received are included in Appendix H. Local and state agencies were contacted via phone, letter, or in person to determine whether files were available for those sites. Table 5 below summarizes the agencies contacted and the information provided.

Table 5: Summary of Local Government Officials Interviews

Agency	Information Provided
Department of Toxic Substances Control Cypress and Chatsworth Regional Offices and https://www.envirostor.dtsc.ca.gov/public/	No Site records found.
Los Angeles Regional Water Quality Control Board 320 W. Fourth Street, Suite 200 Los Angeles, California 90013 and http://geotracker.waterboards.ca.gov/	No Site records found.
South Coast Air Quality Management District 21865 Copley Drive Diamond Bar, California 91765-4178 http://www.aqmd.gov/prr/index.html	No Site records found in a search of the online database.
Los Angeles County Fire Department, Health Hazardous Materials Division https://www.fire.lacounty.gov/hhmd/hhmd-records-request/	Response not received within the timeframe of this assessment and not anticipated within a reasonably ascertainable timeframe.
Los Angeles City Fire Department Hazardous Materials Records 200 North Main Street, 17th Floor Los Angeles, California 90012	No Site records found.
Los Angeles City Fire Department UST Records 200 North Main Street, 17th Floor Los Angeles, California 90012	Response not received within the timeframe of this assessment and not anticipated within a reasonably ascertainable timeframe.

5.3 INTERVIEW WITH OTHERS

No other individuals who might have information regarding the Site were identified.

SECTION 6
ENVIRONMENTAL SCHOOL SITE SELECTION SCREENING CRITERIA CHECKLIST

Pertinent selection criteria of the CDE Existing Schools Checklist is presented below. The completed CDE Existing Schools Checklist completed for Belvedere Middle School is provided in Appendix I.

6.1 POWERLINES/ELECTROMAGNETIC FIELDS

The project is not anticipated to create any significant safety hazards or exacerbate any existing safety hazards to students in relation to powerlines/electromagnetic fields within the school property or within a 350-foot boundary of the Site. Apparent high voltage powerlines were not observed during the site reconnaissance.

6.2 RAILROADS

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students in regards to railroads within a 1,500-foot radius of the Site. Railroads were not identified at the Site or surrounding area.

6.3 TRAFFIC NOISE

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students in regards to adjacent roads or freeways that would adversely affect the educational program.

6.4 FAULTS

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students in regards to an active earthquake fault or fault trace which may be on-site. A review of the available California Department of Conservation, Regulatory Maps at http://www.quake.ca.gov/gmaps/WH/regulatorymaps.htm indicated that the Site is not depicted in any Special Studies Zones (i.e. AP Earthquake Fault Zones, and Landslide and Liquefaction Zones).

6.5 FLOOD OR INUNDATION AREA

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students in regards to flooding or damn inundation. A review of the available California Department of Conservation, Regulatory Maps at http://www.quake.ca.gov/gmaps/WH/regulatorymaps.htm indicated that the Site is not depicted in any Special Studies Zones (i.e. AP Earthquake Fault Zones, and Landslide and Liquefaction Zones).

6.6 PIPELINES AND ABOVEGROUND TANKS

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students from nearby water or fuel ASTs or pipelines. ASTs were not observed on the Site or adjoining properties. Pipelines were not depicted on or near the Site on the National Pipeline Mapping System https://pvnpms.phmsa.dot.gov/PublicViewer/.

6.7 LIQUEFACTION AND LANDSLIDES

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students in regards to liquefaction and landslides. A review of the available California Department of Conservation, Regulatory Maps at http://www.quake.ca.gov/gmaps/WH/regulatorymaps.htm indicated that the Site is not depicted in any Special Studies Zones (i.e. AP Earthquake Fault Zones, and Landslide and Liquefaction Zones).

6.8 TRAFFIC AND PEDESTRIAN SAFETY

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students from an adjacent major arterial street.

6.9 COMPATIBLE ZONING

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students from the zoning surrounding the Site.

6.10 LIGHT, WIND, AIR POLLUTION

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students from light, wind or air pollution.

6.11 EASEMENTS

The project is not anticipated to 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.

6.12 BORDER ZONE PROPERTY

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students from a significant disposal or hazardous waste site within a 2,000-foot radius of the Site. No off-site properties of concern (i.e. a REC in connection with the Site) was identified during review of the EDR Radius Map™ Report with GeoCheck® ordered for the Site.

6.13 CELLULAR PHONE TOWERS

The project is not anticipated to 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. It is Tetra Tech's understanding the LAUSD does not allow cellular sites at LAUSD schools. An apparent cellular site was not observed on the adjoining properties.

6.14 AIR POLLUTION

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students from a major transportation corridor within a 500-foot radius of the Site, or a major stationary source within a 500-foot radius of the Site. Belvedere MS is ranked #120 on the Priority List of Schools Most at Risk from Air Pollution provided by LAUSD.

6.15 METHANE ZONES

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students from known methane zone or oil field. The Site and area are depicted outside of a Methane Zone or Methane Buffer Zone on the City of Los Angeles Methane and Methane Buffer Zone Map (2004). The Site is not depicted within an oil field on the California Division of Oil, Gas & Geothermal Resources Well Finder website https://maps.conservation.ca.gov/doggr/wellfinder/#close.

6.16 OIL WELLS

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students from an on-site oil well. There are no on-site oil wells depicted on the California Division of Oil, Gas & Geothermal Resources Well Finder website https://maps.conservation.ca.gov/doggr/wellfinder/#close.

6.17 AIRPORTS

The project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students from an airport within two nautical miles of the Site. An airport was not identified at the Site or surrounding area.

SECTION 7
CONCLUSIONS AND RECOMMENDATIONS

The Phase I ESA findings, conclusions, and recommendations are summarized below. Conclusions are based on observations made during a site reconnaissance, review of historic information, review of regulatory databases, interviews, and Tetra Tech's professional experience.

Findings and Conclusions

We have performed a Phase I Environmental Site Assessment in general accordance with 40 CFR Part 312 - Standards and Practices for All Appropriate Inquiries (Environmental Protection Agency's AAI Rule) and the ASTM E 1527-13 for the Site located at 312 North Record Avenue, Los Angeles, California 90063. Any exceptions to, or deletions from, this practice are described in Sections 2 and 8 of this report. This assessment has revealed no evidence of RECs in connection with the Site, except for the following:

- An on-site fuel bunker was observed on the south-central portion of Site, outside the east wall of the Shop building. Two 55-gallon drums of gasoline and one 55-gallon drum of diesel fuel were observed inside the concrete bunker. Areas of the floor within the fuel bunker were deteriorated; however, no leaks or stains were observed in the vicinity of the drums. During the site reconnaissance, a strong petroleum odor was noted within the fuel bunker. There is a potential for subsurface petroleum hydrocarbons and/or metals contamination in the area of the fuel bunker;

- A boiler room associated with the historic heating/cooling of the Administrative building was observed to contain older boiler equipment. No leaks, stains or odors were observed or detected in the vicinity of the older boiler room equipment. There is potential for significant petroleum hydrocarbon use associated with the operation of the historic boiler room equipment;

- A clarifier was observed on the southwestern portion of the Site, south of the South Classrooms building. No stains or odors were observed or detected in the vicinity of the clarifier. The clarifier was reportedly associated with the pottery/arts classroom in the South Classrooms

building and is no longer utilized. There is potential for subsurface petroleum hydrocarbons and/or metals contamination associated with the use of the historic use of the clarifier;

- There is potential for the presence of lead-contaminated soils in the vicinity of the on-site buildings (historic and current) associated with the potential use of lead-based paint (LBP) in the buildings;

- There is potential for the presence of organochlorine pesticide (OCP) contaminated soils in the vicinity of the on-site buildings (historic and current) associated with the potential application of OCPs applied at wood building foundations for termite control; and

- There is potential for arsenic contaminated soils beneath the Site pavement due to LAUSD's former standard practice of applying herbicides containing arsenic prior to paving.

No other RECs were identified in connection with the Site from review of historic records, environmental database review, site reconnaissance, or interviews. In addition, although considered to be a "Non-Scope" issue as outlined in Section 13 of ASTM E 1527-13, the following BERs were addressed and identified as a part of this assessment:

- There is potential for the presence of asbestos-containing materials (ACMs) and lead-based paint (LBP) at the on-site school buildings due to the age of the buildings (generally 1920s through 1960s).

- There is potential for the presence of PCB-containing light ballasts at the on-site school buildings due to the age of the buildings (generally 1920s through 1960s).

No other BERs were addressed and/or identified as a part of this assessment.

Recommendations

Preparation of a PEA-E scoping document is warranted in order to address the RECs identified during this assessment. The PEA-E scoping document should include a scope of work for the sampling, analysis and evaluation of on-site subsurface soil, soil vapor and/or groundwater (as appropriate) to determine the presence or absence of COCs, including petroleum hydrocarbons, VOCs, metals including lead and arsenic and OCPs, as appropriate, to address the RECs identified.

CDE Existing Schools Checklist

Also, the following item was selected "yes" on the CDE Existing Schools Checklist was completed for the Site as a part of this assessment:

- **Air Pollution:** Belvedere MS is ranked #120 on the Priority List of Schools Most at Risk from Air Pollution. Although identified on the list, the project is not anticipated to create any new significant safety hazards or exacerbate any existing safety hazards to students from a major transportation corridor within a 500-foot radius of the Site, or a major stationary source within a 500-foot radius of the Site.

SECTION 8
DEVIATIONS

This section summarizes any deletions or deviations from the ASTM E 1527-13.

- In lieu of conducting the User tasks outlined in the ASTM E 1527-13 the User (i.e. LAUSD) requested and assisted in the completion of the CDE Existing Schools Checklist. See Section 6 for a summary of the CDE Existing Schools Checklist.

- In lieu of conducting owner, occupant, manager and neighbor interviews as outlined in the ASTM E 1527-13 the Client (i.e. LAUSD) requested and assisted in the completion of the CDE Existing Schools Checklist and provided a previous Phase I ESA conducted for the Site. See Section 6 for a summary of the CDE Existing Schools Checklist.

- A LAST database was not searched since it is not available in California.

- Site history could not be documented prior to when the Site was first developed.

- There was no access to observe the elevator machine(s) room as no key on-site key was available for access.

- A response from the Los Angeles County Fire Department, Health Hazardous Materials Division was not received within the timeframe of this assessment and is not expected to be received within a reasonably ascertainable timeframe.

- A response from the Los Angeles City Fire Department, UST Records was not received within the timeframe of this assessment and is not expected to be received within a reasonably ascertainable timeframe.

There were no other deletions or deviations from the ASTM E 1527-13. These deviations are not considered to be significant data gaps to the Phase I ESA due to the availability of other historical/current records available for the Site.

SECTION 9
LIMITATIONS

This report was compiled based partially on information supplied to Tetra Tech from outside sources and other information in the public domain. The conclusions and opinions herein are based on the information Tetra Tech obtained in compiling the report. This information is on file at Tetra Tech's office in San Bernardino, California. Tetra Tech makes no warranty as to the accuracy of statements made by others which may be contained in the report, nor are any other warranties or guarantees, expressed or implied, included or intended by the report except that it has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. Because the facts forming the basis for the report are subject to professional interpretation, differing conclusions could be reached. Tetra Tech does not assume responsibility for the discovery and elimination of hazards that could possibly cause accidents, injuries, or damage. Compliance with submitted recommendations or suggestions does not assure elimination of hazards or the fulfillment of client's obligations under local, state, or federal laws or any modifications or changes to such laws. None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

We appreciate the opportunity to work with you on this project. If you have any questions concerning the findings and conclusions contained in this report, please call Mark Feldman at (909) 381-1674.

SECTION 10
CERTIFICATION STATEMENT

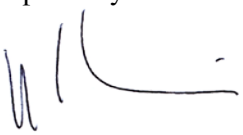
We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in Section 312.10 of CFR 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:



Vanessa Calder
Associate Geologist
Tetra Tech, Inc.

Prepared by:



Heidi Yavornicky
Senior Environmental Scientist
Tetra Tech, Inc

Reviewed by:



Mark Feldman, CHG CEG
Lead Project Manager
Tetra Tech, Inc.

SECTION 11
REFERENCES

ASTM E1527-13
2013 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

ASTM E2600-10
2010 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions.

California Department of Conservation, Division of Mines and Geology
2010 Geologic Map of California
http://www.quake.ca.gov/gmaps/GMC/stategeologicmap.html

2017 California Department of Conservation, Regulatory Maps
http://www.quake.ca.gov/gmaps/WH/regulatorymaps.htm

California Department of Education
2015 Existing Schools Checklist

California Department of Toxic Substances Control
2017 Envirostor Database https://www.envirostor.dtsc.ca.gov/public/.

California Geological Survey
2002 Note 36, California Geomorphic Provinces.

2005 Radon Potential Zone Map for Southern Los Angeles County, California. Author: Ron Churchill. Dated January.

California Division of Oil, Gas & Geothermal Resources
2017 Online Well Finder Database https://maps.conservation.ca.gov/doggr/wellfinder/#close

California State Water Resources Control Board
2017 GeoTracker Database http://geotracker.waterboards.ca.gov/

City of Los Angeles
2004 Methane and Methane Buffer Zones, City of Los Angeles. Dated March 31.

Environmental Data Resources
2017 Aerial Photography Print Service Report – June 27

2017 Building Permit Report – June 26

2017 City Directory Abstract - June 26

2017 Historical Topographic Map Report - June 26

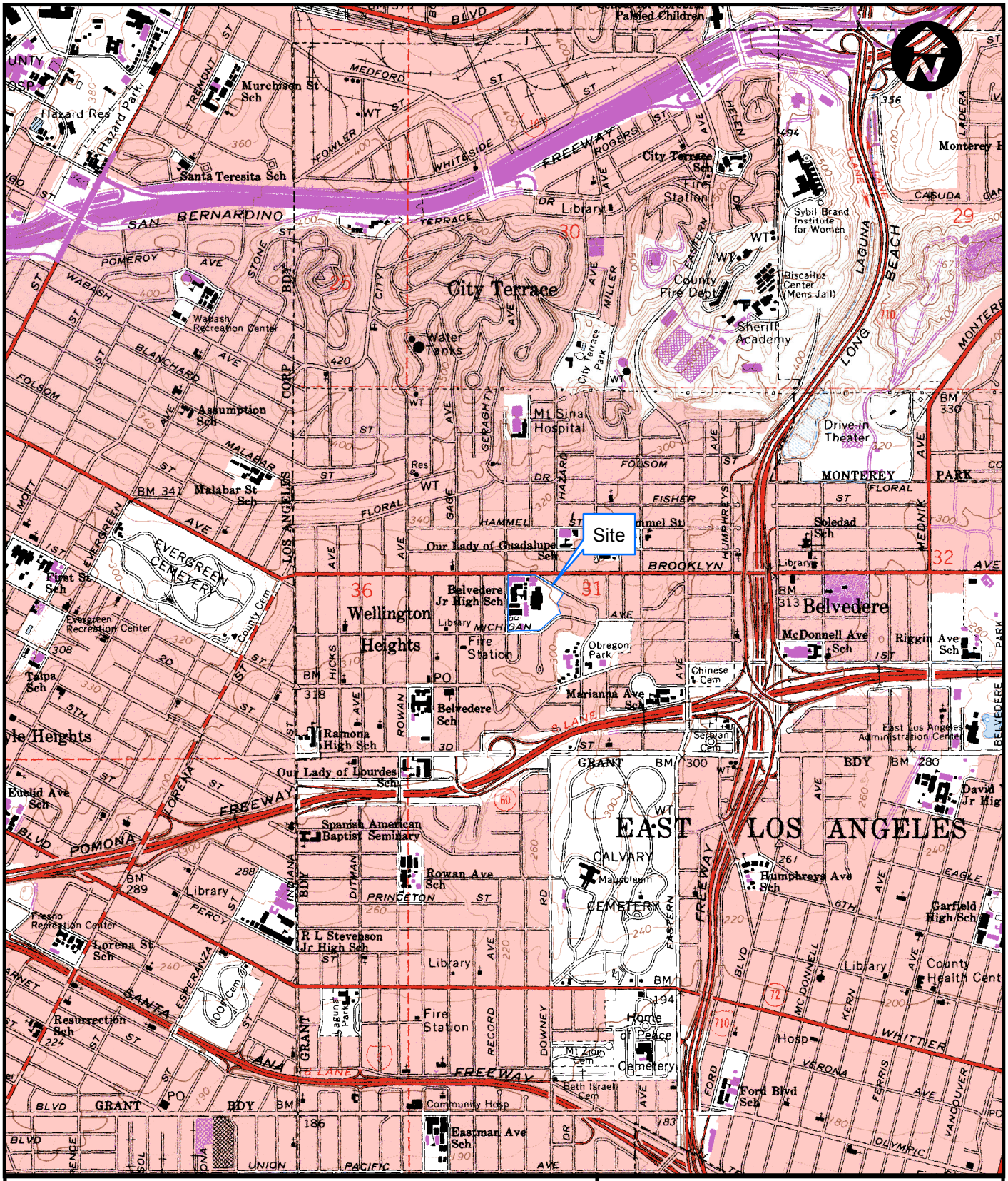
2017 Radius Map™ Report with GeoCheck® – June 26

2017 Sanborn® Map Report - June 26

National Pipeline Mapping System
2017 https://pvnpms.phmsa.dot.gov/PublicViewer/

U.S. Geological Survey
2012 Los Angeles, California Quadrangle. U.S. Geological Survey 7.5-minute topographic series. 2012.

Waterstone Environmental, Inc.
2017 Phase I Environmental Assessment Report: Belvedere Middle School, 312 North Record Avenue, Los Angeles, California 90063. Prepared for Los Angeles Unified School District Office of Environmental Health and Safety. Dated February 28.



0 0.5 1 Miles

Source: USGS 1966. Revised 1981. Topographic Map of Los Angeles, California.

FIGURE 1

SITE LOCATION MAP
BELVEDERE MIDDLE SCHOOL
LOS ANGELES, CALIFORNIA

TETRA TECH, INC.

P:\Public\LAUSD\Belvedere Middle School\Graphics\TOPO.MXD



0 250 500 Feet

FIGURE 2

SITE PLAN
BELVEDERE MIDDLE SCHOOL
LOS ANGELES, CALIFORNIA

TETRA TECH, INC.

P:\Public\LAUSD\Belvedere Middle School\Graphics\Site Plan.MXD

APPENDIX A ASSESSOR'S RESUME

TETRA TECH

Vanessa Calder
Associate Geologist

Ms. Calder is a geologist based in Tetra Tech's San Bernardino office. Vanessa brings more than 10 years of work experience in the geological and biological sciences and possesses an extensive and diverse set of skills and knowledge. She has conducted several NEPA site assessments and Phase I Environmental Site Assessments (Phase I ESAs) prepared for Verizon Wireless, Inc. and various additional commercial and governmental clients. Ms. Calder has significant experience in conducting various field activities including groundwater, surface water, storm water and soil sampling, biological monitoring, environmental restoration and site maintenance. Ms. Calder's geological experince includes drilling supervision, logging, detailed interpretation of soil borings, and field mapping. Ms. Calder has considerable experience with multi-discipline field surveys, mitigation/restoration project design, management and implementation as well as data collection, processing, entry and site interpretation/assessment.

Education:

-Humboldt State University, Arcata, California
B.A., Geology Major, Botany Minor, 2011
-Napa Valley College, Napa, California
A.S., (3), Natural Resources, Biology and General Education, 2002

Special Training:

-40-Hour OSHA Hazardous Waste Operations and Emergency Response Training
-California DPH Certified Lead Inspector/Assessor, certification pending

Professional Affiliations:

Geological Society of America

Office:

San Bernardino, CA

Years of Experience:

10

Years with Tetra Tech:

2.5

EXPERIENCE

Tetra Tech, Inc.

National Environmental Policy Act (NEPA) Assessments, multiple sites throughout California, Verizon Wireless. Assessor and author of several NEPA site assessments, requiring records review through Archeological Information Centers, Native American Heritage Commission, the State Historic Preservation Office, and numerous Native American Tribal leaders and representatives. Ms. Calder works with staff biologists and archaeologists to ensure that endangered or threatened species or habitats and cultural resources will not be impacted by proposed developments. In addition, Ms. Calder contacts local zoning agencies and issues public notifications as a part of the scope of work.

Phase I Environmental Site Assessments, multiple sites throughout California and Hawaii. Author and assessor for several Phase I environmental site assessments, requiring file review, interviews, review of historic property uses, site reconnaissance and the assessment of any potential environmental hazards or concerns. The properties assessed include residential, commercial, industrial, governmental, undeveloped and agricultural land uses.

Lockheed Martin Corporation, Beaumont, California. Conduct Quarterly groundwater sampling and operational maintenance. Biological monitor for routine quarterly groundwater monitoring activities, site maintenance activities and any other tasks that may require monitoring.

The Boulevards at South, Bay, Carson, Carson Marketplace, California. Conduct quarterly groundwater sampling. Assist with data collection and management.

San Bernardino County, Chino Airport, California. Perform routine groundwater sampling and operational maintenance. Conducted field pilot test of CPT feasibility, performed multiple-interval groundwater sampling and site assessment. Installed monitoring well clusters using hollow stem auger (HSA) drilling method with depth-discrete groundwater sampling to characterize the horizontal and vertical extent of the plume.

US Air Force, Edwards Air Force Base (EAFB), EAFB, California – Responsible for routine water quality testing and sampling and operational maintenance of network of over 2,000 monitoring wells.

Lendlease Corporation, Fairbanks, Alaska – Conducted soil screening and hauling clearance for soil removal at North Haven Communities, Fort Wainwright Military Base, Alaska.

Death Valley National Park
Geological Society of America GeoCorps program, Furnace Creek, California, 2013. Identified and mapped surface water features; measured groundwater levels, maintained well monitoring logs, and conducted water quality sampling of wells and springs. Drafted Standard Order of Operations for department specific use of ArcGIS and GPS equipment. Maintained and calibrated air quality equipment and performed routine station checks.

California Department of Conservation, Abandoned Mine Lands Unit
Geological Society of America GeoCorps program, Sacramento, California, 2012-2013.
Performed field exploration, mapping and inventory of abandoned mines. Collected multi-disciplinary data and conducted hazard assessments utilizing GPS equipment, written descriptions and photographs. Entered and correlated field data into ArcGIS and AMLU database. Performed literary research, planned site visits, analyzed aerial photography, managed mine records, and performed QA/QC of data and records.

Bureau of Land Management, Grand Junction Field Office
Geological Society of America GeoCorps program, Grand Junction, Colorado, 2011-2012.
Constructed and implemented geologically-based interpretive programs. Produced interpretive material of various media and drafted proposals. Interpreted regional geology and cultural history through field investigation, desktop research and consultation with regional experts. Photographed thousands of geological and Field Office specific subjects and created an associated archive. Provided administrative support, generated permits, answered phones and assisted customers for front office operations.

San Bernardino National Forest Association
Big Bear, California, 2009-2011. Researched, developed and presented formal interpretive programs. Managed and administered a native plant propagation program. Team member in an interdisciplinary, multi-agency team that planned, designed and implemented natural resource conservation, watershed restoration and erosion control projects. Trained and supervised permanent and episodic volunteers.

Grand Teton National Park
Biological Science Technician, Resource Management, Moose, Wyoming 2007, 2008.
Team member in a field-based native seed collection assignment. Manager and caretaker of a large native plant nursery. Monitored and maintained revegetation sites. Mapped location, density and distribution of high-priority invasive plants. Supervised volunteer crews with numerous environmental restoration projects.

Humboldt County Department of Environmental Health
Environmental Health Technician II, Eureka, California, 2007. Analyzed monitoring reports for accuracy and corroboration of data. Interpreted soil borings, well logs and water sample data. Reconstructed individual site characteristics over temporal and spatial ranges. Prepared written correspondences and reports.

Heidi Yavornicky

Senior Environmental Scientist

Ms. Yavornicky has over 14 years of relevant experience in conducting all appropriate inquiries investigations, environmental site assessments and other site investigations. She has conducted hundreds of Phase I Environmental Site Assessments (Phase I ESAs) prepared for a variety of clients, including local municipalities (including under EPA Brownfields Site Assessment Hazardous Materials and Petroleum grants for several Cities within California), school districts, financial institutions, commercial property management companies, commercial and residential developers, and Verizon Wireless, Inc. Ms. Yavornicky also has experience in conducting NEPA site assessments prepared for Verizon Wireless, Inc.

Ms. Yavornicky is a Cal/OSHA Certified Asbestos Consultant, qualified to conduct surveying and abatement monitoring of asbestos-containing materials. Ms. Yavornicky has assisted in destructive and non-destructive sampling and abatement monitoring of schools, multi-story commercial office buildings, commercial retail centers, former agricultural land, and residential structures. Ms. Yavornicky is also certified as a California DPH Certified Lead Inspector/Assessor, qualified to conduct lead-based paint surveys/risk assessment. Ms. Yavornicky is also certified to conduct asbetsos surveys and abatement monitoring, as well as lead-based paint surveys in the states of Nevada and Arizona.

Education:

California State University, San Bernardino
San Bernardino, CA
B.A., Environmental Studies, Minor Concentration Geography, 2002

Registrations/Certifications:

- 40-Hour OSHA Hazardous Waste Operations and Emergency Response Training (HAZWOPER) with current 8-Hour Refresher Training
- Cal/OSHA Certified Asbestos Consultant #16-5777
- California DPH Certified Lead Inspector/Assessor, # 19759
- NIOSH 582 Equivalent Training for Sampling and Evaluating Airborne Asbestos Dust
- Manufacturer's Certification in the use of the Niton XRF devices for lead sampling

Office:

San Bernardino, CA

Years of Experience:

14

Years with Tetra Tech:

3

EXPERIENCE

Phase I Environmental Site Assessments

Phase I Environmental Site Assessments, multiple sites throughout California, Verizon Wireless and non-profit agencies including Mojave Desert Land Trust and The Trust for Public Land, Ongoing - Primary author and assessor for numerous Phase I ESAs, requiring file review, review of historic property uses, site reconnaissance and the assessment of any potential environmental hazards or concerns. The properties assessed include residential, commercial, industrial, and agricultural land uses.

Phase I Environmental Site Assessments for local government agencies including the City of Rialto, City of Firebaugh, and City of Grass Valley, 2008 to 2012 - Primary author and assessor for Phase I ESAs. The properties assessed included sites deemed a Brownfield site eligible for assessment under EPA Brownfield Site Assessment Hazardous Materials and Petroleum grants. Documentation included the identification of properties with impacted groundwater, properties with a history of hazardous waste uses and releases, and former USTs which were identified as concerns to the sites in question. Assessment included numerous interviews with various Federal, State and local agencies, as well as utility providers, property owners and others with knowledge of the sites.

Phase I Environmental Site Assessments for local school districts, including Los Angeles Unified School District, San Bernardino Unified School District, and Alvord Unified School District, 2004 - 2012 - Author and assessor for Phase I ESAs of properties that included active school sites and proposed school sites that were developed for industrial, commercial and/or residential land uses. Properties within a 500-foot radius of the active and proposed school sites were generally included as a part of the assessment. Documentation included the identification of properties with impacted groundwater, properties with a history of hazardous waste uses and releases, and former USTs which were identified as concerns to the sites in question. Assessment included numerous interviews with various Federal, State and local agencies, school officials, as well as utility providers, property owners and others with knowledge of the sites.

Phase I Environmental Site Assessments for financial institutions, commercial developers and property managers, and residential developers including East West Bank, Wells Fargo Bank, Donahue Schriber Realty Group, Kilroy Realty, Pardee Homes, KB Homes, among others, 2003-2013 - Author and assessor for Phase I ESAs of properties that included an entire town in Northern California, as well as industrial properties including heavy manufacturing, commercial properties including agricultural farms, former motion picture studios, high-rise commercial office buildings in urbanized, downtown settings, commercial retail centers, residential properties and undeveloped land. Documentation included the identification of properties with impacted subsurface soil, soil vapor and/or groundwater from hazardous materials and/or petroleum products, including pesticides and herbicides, requiring remediation.

National Environmental Policy Act (NEPA) Site Assessments

NEPA Site Assessments for Verizon Wireless, Ongoing - Author and assessor for NEPA site assessments, requiring records searches through Archaeological Information Centers, the Native American Heritage Commission, and the State Historic Preservation Office, as well as contacting individual Native American tribal leaders. Ms. Yavornicky works with staff biologists and archaeologists to ensure that endangered or threatened species or habitats and cultural resources will not be impacted by proposed developments. In addition, Ms. Yavornicky contacts local zoning agencies and issues public notifications as a part of the scope of work.

Asbestos and Lead-Based Paint Surveys and Asbestos Abatement Monitoring

Asbestos Surveys and Asbestos Abatement Monitoring for local municipalities, 2008-2012 - Completed and/or assisted in several asbestos surveys and abatement monitoring for the City of Irwindale, City of Pasadena, and City of Firebaugh. The properties surveyed generally consisted of City-owned commercial and residential properties. The surveys also included collecting samples of damaged and abandoned building materials that were illegally disposed of on vacant City-owned property. Abatement monitoring was generally conducted upon the completion of the surveys at these sites.

Asbestos Surveys and Asbestos Abatement Monitoring for local school districts, 2008-2012 - Assisted in several asbestos surveys and abatement monitoring for the Los Angeles Unified School District and Rowland Unified School District. The schools surveyed generally consisted of classrooms and multi-purpose rooms that were scheduled for and undergoing renovations. Abatement monitoring was generally conducted upon the completion of the surveys at these schools.

Asbestos Surveys and Asbestos Abatement Monitoring, and Lead-Based Paint Surveys for financial institutions, commercial developers and property managers, and residential developers including East West Bank, Wells Fargo Bank, Donahue Schriber Realty Group, Kilroy Realty, Pardee Homes, KB Homes, among others, 2008-2013 - Completed and/or assisted in asbestos surveys and abatement monitoring, as well lead-based paint surveys that consisted of visually observing and collecting samples of damaged building materials that may have posed an immediate threat to human health. The properties surveyed included vacant land where building materials were illegally disposed of onsite, as well as commercial buildings where deterioration or illegal renovation activities were occurring. The properties surveyed also included suites in commercial retail centers that were scheduled for and undergoing renovations. Asbestos abatement monitoring was generally conducted upon the completion of the survey at these commercial retail center suites.

TETRA TECH

Mark Feldman, CHG CEG
Principal Geologist

Mr. Feldman is a geologist and geochemist with 25 years of professional experience focusing on the characterization, remediation, and regulatory closure of environmentally-impacted properties. His experience has ranged from relatively straightforward environmental due diligence investigations to characterization and remediation of large, complex sites with multiple environmental concerns, emerging contaminants, and significant regulatory oversight. Mr. Feldman's broad range of experience and strong technical background enable him to work effectively with colleagues in other disciplines, including engineers, toxicologists, chemists, as well as clients and the regulatory community. At Tetra Tech, Mr. Feldman both manages projects and serves as a senior technical resource.

Education:

B.S., Geology, University of California, Los Angeles, 1981

M.S., Geology, Arizona State University, 1984

Registrations/Certifications:

Professional Geologist, California, 2001 (No. 7349)

Certified Hydrogeologist, California, 2002 (No. HG747)

Certified Engineering Geolgist, California, 2005 (No. EG2387)

HAZWOPER 40-Hour Certification

8-hr Annual Refresher

Office Location:

San Bernardino, CA

Years of Experience:

Tetra Tech: 19

Total: 25

EXPERIENCE

Former Rocket Motor Test Facility, Beaumont, California – Project manager and technical lead for characterization of a 2,300-acre former rocket motor test facility with multiple areas of perchlorate-, chlorinated solvent-, and 1,4-dioxane-impacted soil and groundwater. The lead regulatory agency for the site is the California Department of Toxic Substances Control. Site characterization work conducted at this site included a major soil and groundwater RI which completed characterization of the site in a single mobilization. A number of additional studies were then performed to support selection of a remedy, including aquifer testing; numerical groundwater flow and contaminant fate-and-transport modeling; human health and ecological risk assessments, including a study of perchlorate uptake in plants to support the ecological risk assessment; a detailed monitored natural attenuation evaluation; soil and groundwater bench-scale treatability studies; a field-scale treatability study of soil flushing; and routine groundwater monitoring. Based on this work, the FS for the site was developed. The remedy recommended in the FS included installation of a biobarrier to control offsite migration of impacted groundwater, ex situ bioremediation of a relatively small quantity of soil to address ecological risk, and offsite disposal of a small quantity of metals-impacted soil. Remedial design has been advanced to the 30% level of completion, and a Remedial Action Plan and CEQA Environmental Impact Report for the selected remedy have been approved.

Former Metals Processing Facility, Torrance, California – Project manager and technical lead for investigation at a former metal forging and extrusion facility impacted by chlorinated solvents, 1,4-dioxane, and hexavalent chromium. This site was initially investigated in the early to mid 1990s, culminating in the implementation of interim measures to address soil contamination prior to redevelopment of the site as a logistics facility. Initial work led by Mr. Feldman included installation of background monitoring wells, development of a Groundwater Corrective Measures Study, and development of an addendum to a previous human health risk assessment to address potential vapor intrusion issues. The Tetra Tech team worked closely with the client and DTSC personnel to complete this work under a tight approval deadline, and the final documents won praise for both timeliness and quality. A USEPA Triad investigation which included cone penetrometer testing, discrete-depth groundwater sampling, soil sampling, and soil gas sampling was then performed to characterize the contaminant source areas. Based on the Groundwater Corrective Measures Study and additional characterization data, a Statement of Basis and CEQA Initial Study for a source control remedy were approved by DTSC. More recently, DTSC requested additional work to address vapor intrusion at the site based on EPA's revised guidance for TCE toxicity. Tetra Tech performed an iterative soil gas, subslab, and indoor air sampling program which documented that health risks to site workers were acceptable.

Former Aerospace Manufacturing Facility, Costa Mesa, California – Project manager and technical lead for characterization of an aerospace manufacturing facility with multiple areas of chlorinated solvent-impacted soil gas, soil, and groundwater. The site was being considered for redevelopment as a multifamily residential development. Site investigations found TCE concentrations in groundwater as high as 71,000 μg/L, which suggested the potential presence of DNAPL beneath an active test area with restricted surface access. Investigation of a second groundwater plume at the site indicated that potential DNAPL conditions did not exist in this area. An in-situ chemical oxidation (ISCO) pilot test was conducted to evaluate whether this technology could be used to remediate groundwater beneath the test area. The test results showed that permanganate was effective in reducing TCE concentrations to non-detectable levels. A Corrective Action Plan, which included implementation of ISCO to reduce the mass of TCE in the source area, a plan for sampling and management of additional impacted soil discovered during future grading activities, and provisions for controlling vapor intrusion following redevelopment, was then developed and approved by the lead regulatory agency. Full-scale remediation using ISCO has since been successfully implemented at the site, and groundwater has received closure from the lead agency

Former Dry Cleaning Facility, Northridge, California – Technical lead for characterization and remediation of PCE-impacted soil. Work included characterization of the lateral and vertical extent of PCE impacted soil, development of an NCP-compliant feasibility study and cost estimates for use by legal counsel, development of site-specific cleanup goals and a remedial action plan which addressed both water quality and human health concerns, and development of the conceptual design for a vapor extraction system which could be used to mitigate potential vapor intrusion concerns. After operating the vapor extraction system and conducting post-remediation rebound testing, the site was closed by the Los Angeles RWQCB.

High-Rise Condominium Project, San Diego, California – Project manager and technical lead for the characterization and remediation of metals-impacted soil at a property in downtown San Diego that was being redeveloped as a high-rise condominium complex. The lead agency for this site was the San Diego County Department of Environmental Health. Work for this project included developing a site mitigation plan, characterizing the extent of impacted soils, developing site-specific cleanup goals for lead and cadmium, and remediation of the site by excavation and off-site disposal of the impacted soil in two phases: one for the on-site area, and one for the area beneath the adjacent public sidewalks. On-site x-ray fluorescence analysis of lead was used throughout this project to expedite the identification and removal of lead-impacted soils. Based on the results of post-remediation confirmation sampling, the site was closed by the lead regulatory agency and the project has been constructed.

Multiple Oil Field Projects, Huntington Beach, California – Project manager and technical lead for ten projects involving the redevelopment of 200 acres of former oil field property in Huntington Beach, California as residential communities. The lead agency for these sites was the Huntington Beach Fire Department. Mr. Feldman's responsibilities included overall project management and technical direction of the project, acting as primary client contact, and serving as regulatory agency liaison on behalf of the client. Soil remediation for all of these projects was performed in conjunction with mass grading, and involved excavation, segregation, and blending of up to 20,000 cubic yards of soil per day. Based on the results of post-remediation confirmation sampling, all of the sites were closed and have since been redeveloped.

Environmental Due Diligence, 13,000-Acre Portfolio, California – Mr. Feldman managed environmental due diligence investigations related to the acquisition of a portfolio of California properties totaling approximately 13,000 acres. The portfolio included former oil field properties, commercial and residential properties, and undeveloped land. This project involved performing 36 Phase I Environmental Site Assessments, 11 Phase II investigations, 10 geotechnical investigations, remediation cost estimating, assisting the client in negotiating environmental indemnifications with the seller, and providing extensive technical support to legal counsel.

APPENDIX B EDR RADIUS MAP™ WITH GEOCHECK©

Belvedere Middle School
312 N Record Avenue
Los Angeles, CA 90063

Inquiry Number: 4976340.2s
June 26, 2017

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

312 N RECORD AVENUE
LOS ANGELES, CA 90063

COORDINATES

Latitude (North):	34.0393230 - 34° 2' 21.56''
Longitude (West):	118.1816130 - 118° 10' 53.80''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	390925.5
UTM Y (Meters):	3766951.0
Elevation:	313 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5630795 LOS ANGELES, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140513
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
312 N RECORD AVENUE
LOS ANGELES, CA 90063

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	LA UNI SCH DIST, BLE	312 N RECORD AV	EMI		TP
A2	LAUSD-BELVEDERE MIDD	312 N RECORD AVENUE	RCRA-SQG, FINDS, ECHO		TP
A3	BELVEDERE MIDDLE SCH	312 N RECORD AVE	FINDS		TP
A4	BELVEDERE JR HIGH SC	312 N RECORD AVE	LOS ANGELES CO. HMS		TP
A5	LAUSD/ BELVEDERE JH	312 N RECORD AVE	HAZNET		TP
6	SANEZ EUTIO	3969 BROOKLYN AVE	EDR Hist Auto	Lower	606, 0.115, NE
7	FIRST STREET DUMP	134 NORTH NEVADA AVE	SWF/LF	Lower	878, 0.166, South
8	SUNOL DUMP 382	127 NORTH SUNOL DRIV	SWF/LF	Lower	1096, 0.208, SE
B9	MARY BEZAYIFF	3937 E. FIRST ST. ,	SWF/LF	Lower	1200, 0.227, SSW
10	DOZIER ST UNITS	3805 DOZIER ST	LUST, HAZNET	Higher	1201, 0.227, NW
11	MARY BEZAYIFF	3937 EAST 1ST STREET	SWF/LF, WMUDS/SWAT	Lower	1265, 0.240, SSE
12	S & M AUTO REPAIR	3984 001ST ST E	LUST	Lower	1277, 0.242, SE
B13	SLOANS DRY CLEANERS	3852 E FIRST ST	RCRA-SQG, FINDS, ECHO	Lower	1301, 0.246, SSW
14	LOMELI RECYCLING CEN	3976 E 1ST ST	SWRCY	Lower	1404, 0.266, SSE
15	LA UNIFIED SCHOOL DI	4141 E CESAR E CHAVE	LUST	Lower	1621, 0.307, ENE
16	C & R AUTO ELECTRIC	506 BRANNICK AVE N	LUST, HIST CORTESE	Lower	1653, 0.313, NE
17	CESAR ROWAN, LLC	3560 CESAR CHAVEZ AV	LUST	Lower	1758, 0.333, West
18	EAST LOS ANGELES HIG	HAMMEL STREET/CESAR	ENVIROSTOR, SCH, DEED	Lower	1792, 0.339, ENE
19	FIRST STREET DUMP	134-36 N. NEVADA AVE	SWF/LF	Lower	1818, 0.344, SSE
20	ARCO #09525	3541 EAST CESAR CHAV	LUST, HIST CORTESE	Lower	2009, 0.380, WNW
21	LARRY'S SERVICE (FOR	4100 FLORAL DR	LUST, HIST CORTESE	Lower	2060, 0.390, NE
C22	TEXACO SERVICE STATI	3875 003RD ST E	LUST, HIST CORTESE	Lower	2273, 0.430, SSW
23	ALLIANCE FOR COLLEGE	3640-3650 EAST 1ST S	ENVIROSTOR, SCH	Higher	2277, 0.431, SW
C24	SHELL SERVICE STATIO	3853 3RD ST E.	LUST	Lower	2280, 0.432, SSW
C25	SHELL #204-4534-6008	3853 003RD ST E	LUST, HIST CORTESE	Lower	2280, 0.432, SSW
D26	HERTZ PROPERTY	3845 3RD ST. E.	LUST	Lower	2316, 0.439, SSW
C27	UNOCAL #6010	3860 003RD	HIST CORTESE	Lower	2340, 0.443, SSW
C28	UNOCAL #6010	3860 003RD ST E	LUST	Lower	2416, 0.458, SSW
D29	ARCO #5027	3834 003RD	HIST CORTESE	Lower	2429, 0.460, SSW
E30	RAD ONE OIL INC	3834 E 3RD ST	LUST, LOS ANGELES CO. HMS	Lower	2542, 0.481, SSW
E31	ARCO # 5027	3834 3RD. ST. EAST	LUST	Lower	2542, 0.481, SSW
32	CENTRAL REGION ELEME	831 NORTH BONNIE BEA	ENVIROSTOR, SCH	Higher	2605, 0.493, North
33	A & N ENGINE REBUILD	4330 EAST CESAR CHAV	ENVIROSTOR	Higher	2782, 0.527, East
F34	MANHOLE	952 MILLER AVE.	Notify 65	Higher	3233, 0.612, NNE
F35	MANHOLE	952 MILLER AVENUE	Notify 65	Higher	3233, 0.612, NNE
G36	NEW RAMONA OPPORTUNI	208-234 SOUTH ALMA A	ENVIROSTOR, SCH	Higher	3366, 0.637, WSW
G37	NEW RAMONA OPPORTUNI	231 SOUTH ALMA AVENU	ENVIROSTOR, SCH	Higher	3475, 0.658, WSW
38	SHERIFF BISCAILUZ CE	1060 EASTERN	ENVIROSTOR, HIST CORTESE, NPDES	Higher	4054, 0.768, NNE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LA UNI SCH DIST, BLE 312 N RECORD AV LOS ANGELES, CA 90063	EMI Facility Id: 71568	N/A
LAUSD-BELVEDERE MIDD 312 N RECORD AVENUE LOS ANGELES, CA 90063	RCRA-SQG EPA ID:: CAD982021594 FINDS Registry ID:: 110002778708 ECHO	CAD982021594
BELVEDERE MIDDLE SCH 312 N RECORD AVE LOS ANGELES, CA 90063	FINDS Registry ID:: 110065042509	N/A
BELVEDERE JR HIGH SC 312 N RECORD AVE LOS ANGELES, CA 90063	LOS ANGELES CO. HMS Facility ID: 000744-I00753	N/A
LAUSD/ BELVEDERE JH 312 N RECORD AVE LOS ANGELES, CA 90063	HAZNET GEPAID: CAD982021594	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

EXECUTIVE SUMMARY

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-LQG..... RCRA - Large Quantity Generators
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 leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
SLIC..... Statewide SLIC Cases

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

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

HAULERS ..... Registered Waste Tire Haulers Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN ..... San Gabriel Valley Areas of Concern
US HIST CDL ..... Delisted National Clandestine Laboratory Register
HIST Cal-Sites ..... Historical Calsites Database
SCH ..... School Property Evaluation Program
CDL ..... Clandestine Drug Labs
Toxic Pits ..... Toxic Pits Cleanup Act Sites
US CDL ..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

SWEEPS UST ..... SWEEPS UST Listing
HIST UST ..... Hazardous Substance Storage Container Database
CA FID UST ..... Facility Inventory Database

Local Land Records

LIENS ..... Environmental Liens Listing
LIENS 2 ..... CERCLA Lien Information

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
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	ICE
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
LA Co. Site Mitigation	Site Mitigation List
UIC	UIC Listing
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner	EDR Exclusive Historic Dry Cleaners

EXECUTIVE SUMMARY

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.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SLOANS DRY CLEANERS	***3852 E FIRST ST***	***SSW 1/8 - 1/4 (0.246 mi.)***	***B13***	***22***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/30/2017 has revealed that there are

7 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ALLIANCE FOR COLLEGE	***3640-3650 EAST 1ST S***	***SW 1/4 - 1/2 (0.431 mi.)***	***23***	***64***
Facility Id: 60001618				
Status: No Action Required				
CENTRAL REGION ELEME	***831 NORTH BONNIE BEA***	***N 1/4 - 1/2 (0.493 mi.)***	***32***	***89***
Facility Id: 60000066				
Status: No Action Required				
A & N ENGINE REBUILD	4330 EAST CESAR CHAV	E 1/2 - 1 (0.527 mi.)	33	92
Facility Id: 60001208				
Status: No Action Required				
NEW RAMONA OPPORTUNI	***208-234 SOUTH ALMA A***	***WSW 1/2 - 1 (0.637 mi.)***	***G36***	***95***
Facility Id: 60000468				
Status: Certified				
NEW RAMONA OPPORTUNI	***231 SOUTH ALMA AVENU***	***WSW 1/2 - 1 (0.658 mi.)***	***G37***	***98***
Facility Id: 60000067				
Status: Certified				
SHERIFF BISCAILUZ CE	***1060 EASTERN***	***NNE 1/2 - 1 (0.768 mi.)***	***38***	***103***
Facility Id: 19490178				
Status: Refer: Other Agency				

Lower Elevation	Address	Direction / Distance	Map ID	Page
EAST LOS ANGELES HIG	***HAMMEL STREET/CESAR***	***ENE 1/4 - 1/2 (0.339 mi.)***	***18***	***36***
Facility Id: 60000041				
Status: Certified O&M - Land Use Restrictions Only				

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there are 5 SWF/LF sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FIRST STREET DUMP	134 NORTH NEVADA AVE	S 1/8 - 1/4 (0.166 mi.)	7	13
Database: LOS ANGELES CO. LF, Date of Government Version: 04/17/2017				
Site ID: 1934				
Status: Closed				
SUNOL DUMP 382	127 NORTH SUNOL DRIV	SE 1/8 - 1/4 (0.208 mi.)	8	14
Database: LOS ANGELES CO. LF, Date of Government Version: 04/17/2017				
Site ID: 2031				
Status: Closed				
MARY BEZAYIFF	3937 E. FIRST ST. ,	SSW 1/8 - 1/4 (0.227 mi.)	B9	15
Database: SWF/LF (SWIS), Date of Government Version: 02/13/2017				
Facility ID: 19-AA-5675				
MARY BEZAYIFF	***3937 EAST 1ST STREET***	***SSE 1/8 - 1/4 (0.240 mi.)***	***11***	***18***
Database: LOS ANGELES CO. LF, Date of Government Version: 04/17/2017				

Site ID: 1984
Status: Closed

FIRST STREET DUMP — 134-36 N. NEVADA AVE — SSE 1/4 - 1/2 (0.344 mi.) — 19 — 54
Database: SWF/LF (SWIS), Date of Government Version: 02/13/2017
Facility ID: 19-AA-5374
Operational Status: Closed
Regulation Status: To Be Determined

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 14 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DOZIER ST UNITS	***3805 DOZIER ST***	***NW 1/8 - 1/4 (0.227 mi.)***	***10***	***15***
Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Global Id: T10000004212				

Lower Elevation	Address	Direction / Distance	Map ID	Page
S & M AUTO REPAIR	3984 001ST ST E	SE 1/8 - 1/4 (0.242 mi.)	12	20
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Facility Id: R-20481 Status: Case Closed Global Id: T0603705307 Global ID: T0603705307				
LA UNIFIED SCHOOL DI	4141 E CESAR E CHAVE	ENE 1/4 - 1/2 (0.307 mi.)	15	24
Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Global Id: T10000000506				
C & R AUTO ELECTRIC	***506 BRANNICK AVE N***	***NE 1/4 - 1/2 (0.313 mi.)***	***16***	***26***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Facility Id: I-20450 Status: Case Closed Global Id: T0603704451 Global ID: T0603704451				
CESAR ROWAN, LLC	3560 CESAR CHAVEZ AV	W 1/4 - 1/2 (0.333 mi.)	17	29
Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Global Id: T0603740312				
ARCO #09525	***3541 EAST CESAR CHAV***	***WNW 1/4 - 1/2 (0.380 mi.)***	***20***	***55***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 03/13/2017				

Status: Completed - Case Closed
Facility Id: R-10934
Status: Case Closed
Global Id: T0603704981
Global Id: T10000002650
Global ID: T0603704981

LARRY'S SERVICE (FOR ***4100 FLORAL DR*** ***NE 1/4 - 1/2 (0.390 mi.)*** ***21*** ***59***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: R-16351
Status: Case Closed
Global Id: T0603705281
Global ID: T0603705281

TEXACO SERVICE STATI ***3875 003RD ST E*** ***SSW 1/4 - 1/2 (0.430 mi.)*** ***C22*** ***61***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: R-09533
Status: Case Closed
Global Id: T0603704827
Global ID: T0603704827

SHELL SERVICE STATIO 3853 3RD ST E. SSW 1/4 - 1/2 (0.432 mi.) C24 66
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: I-06358A
Status: Pollution Characterization
Global Id: T0603713719
Global ID: T0603713719

SHELL #204-4534-6008 ***3853 003RD ST E*** ***SSW 1/4 - 1/2 (0.432 mi.)*** ***C25*** ***74***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: I-06358
Status: Case Closed
Global Id: T0603703201
Global ID: T0603703201

HERTZ PROPERTY 3845 3RD ST. E. SSW 1/4 - 1/2 (0.439 mi.) D26 77
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 900360270
Status: Case Closed
Global Id: T0603747349
Global ID: T0603747349

UNOCAL #6010 3860 003RD ST E SSW 1/4 - 1/2 (0.458 mi.) C28 80
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: I-03006
Status: Case Closed
Global Id: T0603702881

Global ID: T0603702881

RAD ONE OIL INC	***3834 E 3RD ST***	***SSW 1/4 - 1/2 (0.481 mi.)***	***E30***	***83***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Facility Id: R-06382 Facility Id: R-06382A Status: Case Closed Status: Leak being confirmed Global Id: T0603704731 Global ID: T0603704731 Global ID: T0603792897				
ARCO # 5027	3834 3RD. ST. EAST	SSW 1/4 - 1/2 (0.481 mi.)	E31	86
Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Global Id: T0603792897				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is 1 WMUDS/SWAT site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
MARY BEZAYIFF	***3937 EAST 1ST STREET***	***SSE 1/8 - 1/4 (0.240 mi.)***	***11***	***18***

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 03/13/2017 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LOMELI RECYCLING CEN Cert Id: RC11918	3976 E 1ST ST	SSE 1/4 - 1/2 (0.266 mi.)	14	23

Local Land Records

DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the DEED list, as provided by EDR, and dated 03/06/2017 has revealed that there is 1 DEED

site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
EAST LOS ANGELES HIG	***HAMMEL STREET/CESAR***	***ENE 1/4 - 1/2 (0.339 mi.)***	***18***	***36***
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY Envirostor ID: 60000041				

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 [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 7 HIST CORTESE sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
C & R AUTO ELECTRIC Reg Id: I-20450	***506 BRANNICK AVE N***	***NE 1/4 - 1/2 (0.313 mi.)***	***16***	***26***
ARCO #09525 Reg Id: R-10934	***3541 EAST CESAR CHAV***	***WNW 1/4 - 1/2 (0.380 mi.)***	***20***	***55***
LARRY'S SERVICE (FOR Reg Id: R-16351	***4100 FLORAL DR***	***NE 1/4 - 1/2 (0.390 mi.)***	***21***	***59***
TEXACO SERVICE STATI Reg Id: R-09533	***3875 003RD ST E***	***SSW 1/4 - 1/2 (0.430 mi.)***	***C22***	***61***
SHELL #204-4534-6008 Reg Id: I-06358	***3853 003RD ST E***	***SSW 1/4 - 1/2 (0.432 mi.)***	***C25***	***74***
UNOCAL #6010 Reg Id: I-03006	3860 003RD	SSW 1/4 - 1/2 (0.443 mi.)	C27	80
ARCO #5027 Reg Id: R-06382	3834 003RD	SSW 1/4 - 1/2 (0.460 mi.)	D29	82

Notify 65: 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.

A review of the Notify 65 list, as provided by EDR, and dated 12/16/2016 has revealed that there are 2 Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MANHOLE	952 MILLER AVE.	NNE 1/2 - 1 (0.612 mi.)	F34	94
MANHOLE	952 MILLER AVENUE	NNE 1/2 - 1 (0.612 mi.)	F35	94

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

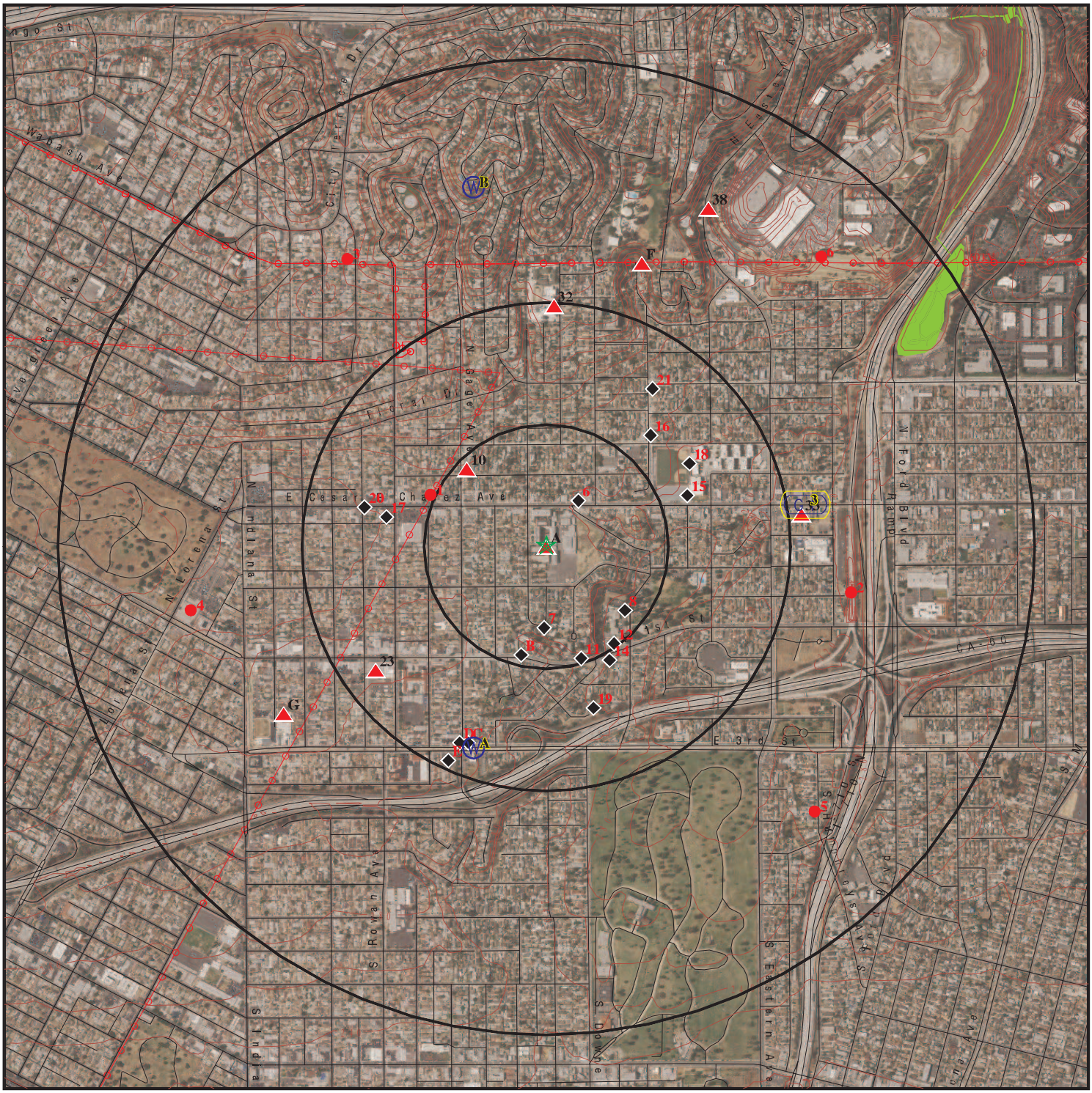
Lower Elevation	Address	Direction / Distance	Map ID	Page
SANEZ EUTIO	3969 BROOKLYN AVE	NE 0 - 1/8 (0.115 mi.)	6	13

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name	Database(s)
BLANCHARD STREET DUMP	SWF/LF
EAST LOS ANGELES STAR PROPERTIES	ENVIROSTOR, SCH
ROWAN NEW PRIMARY CENTER	ENVIROSTOR, SCH
BLANCHARD ST, CLOSED LANDFILL	ODI

OVERVIEW MAP - 4976340.2S



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 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: Belvedere Middle School	CLIENT: Tetra Tech, Inc.
ADDRESS: 312 N Record Avenue Los Angeles CA 90063	CONTACT: Vanessa Calder
LAT/LONG: 34.039323 / 118.181613	INQUIRY #: 4976340.2s DATE: June 26, 2017 11:30 am

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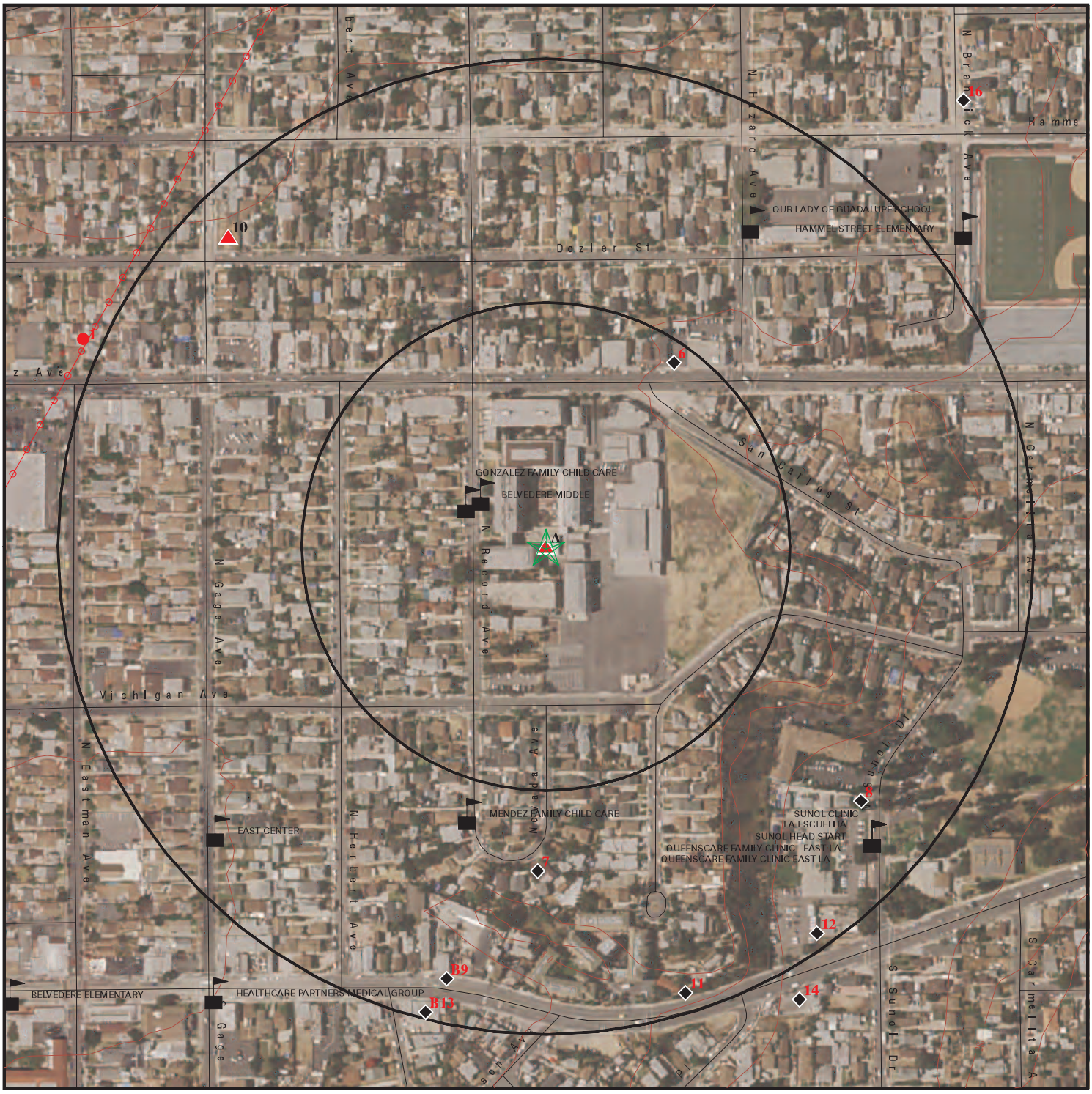
DETAIL MAP - 4976340.2S



- 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
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Belvedere Middle School ADDRESS: 312 N Record Avenue Los Angeles CA 90063 LAT/LONG: 34.039323 / 118.181613	CLIENT: Tetra Tech, Inc. CONTACT: Vanessa Calder INQUIRY #: 4976340.2s DATE: June 26, 2017 11:32 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250	1	0	1	NR	NR	NR	2
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	3	4	NR	7
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	4	1	NR	NR	5
State and tribal leaking storage tank lists								
LUST	0.500		0	2	12	NR	NR	14

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	0	NR	NR	0
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	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	1	0	NR	NR	1
SWRCY	0.500		0	0	1	NR	NR	1
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
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	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
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	1	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
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
ABANDONED MINES	0.500		0	0	0	NR	NR	0
FINDS	TP	2	NR	NR	NR	NR	NR	2
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP	1	NR	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP	1	NR	NR	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ENF	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
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	7	NR	NR	7
LOS ANGELES CO. HMS	TP	1	NR	NR	NR	NR	NR	1
HWP	1.000		0	0	0	0	NR	0
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	2	NR	2
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
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		0	NR	NR	NR	NR	0
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 --		7	1	8	25	6	0	47

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **LA UNI SCH DIST, BLEVEDERE JUN** **EMI** **S100866412**
Target **312 N RECORD AV** **N/A**
Property **LOS ANGELES, CA 90063**

Site 1 of 5 in cluster A

Actual:
313 ft.

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	71568
Air District Name:	SC
SIC Code:	8211
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

A2 **LAUSD-BELVEDERE MIDDLE SCHOOL** **RCRA-SQG** **1000102106**
Target **312 N RECORD AVENUE** **FINDS** **CAD982021594**
Property **LOS ANGELES, CA 90063** **ECHO**

Site 2 of 5 in cluster A

Actual:
313 ft.

RCRA-SQG:

Date form received by agency:	02/01/2006
Facility name:	LAUSD-BELVEDERE MIDDLE SCHOOL
Facility address:	312 N RECORD AVENUE LOS ANGELES, CA 90063
EPA ID:	CAD982021594
Mailing address:	333 S. BEAUDRY AVE, 20TH FLOOR LOS ANGELES, CA 90017
Contact:	SOE AUNG
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	(213) 241-3904
Contact email:	SOE.AUNG@LAUSD.NET
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Owner/operator address:	333 S. BEAUDRY AVE, 20TH FLOOR LOS ANGELES, CA 90017
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	State

LAUSD-BELVEDERE MIDDLE SCHOOL (Continued) **1000102106**

Owner/Operator Type: Owner
Owner/Op start date: 01/01/2005
Owner/Op end date: Not reported

Owner/operator name: LAUSD-BELVEDERE MIDDLE SCHOOL
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: State
Owner/Operator Type: Operator
Owner/Op start date: 01/01/2005
Owner/Op end date: Not reported

Owner/operator name: LOS ANGELES
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/01/2006
Site name: LAUSD-BELVEDERE MIDDLE SCHOOL
Classification: Large Quantity Generator

LAUSD-BELVEDERE MIDDLE SCHOOL (Continued) **1000102106**

. Waste code: 135
. Waste name: 135

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

Date form received by agency: 08/07/1987
Site name: LOS ANGELES USD BELVEDERE JUNIOR HG SCH
Classification: Small Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002778708

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000102106
Registry ID: 110002778708
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002778708

A3 **BELVEDERE MIDDLE SCHOOL** **FINDS** **1023218240**
Target **312 N RECORD AVE** **N/A**
Property **LOS ANGELES, CA 90063**

Site 3 of 5 in cluster A

Actual: 313 ft.

FINDS:

Registry ID: 110065042509

Environmental Interest/Information System
STATE MASTER

BELVEDERE MIDDLE SCHOOL (Continued) **1023218240**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A4 **BELVEDERE JR HIGH SCHOOL(DEST)** **LOS ANGELES CO. HMS** **U003057177**
Target **312 N RECORD AVE** **N/A**
Property **LOS ANGELES, CA 90063**

Site 4 of 5 in cluster A

Actual:
313 ft.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: Not reported
Facility Id: 000744-I00753
Facility Type: Not reported
Facility Status: OPEN
Area: 39
Permit Number: Not reported
Permit Status: Not reported

A5 **LAUSD/ BELVEDERE JH** **HAZNET** **S113012546**
Target **312 N RECORD AVE** **N/A**
Property **LOS ANGELES, CA 90063**

Site 5 of 5 in cluster A

Actual:
313 ft.

HAZNET:
envid: S113012546
Year: 2014
GEPAID: CAD982021594
Contact: PAT SCHAENEN
Telephone: 2132413921
Mailing Name: Not reported
Mailing Address: 505 S BEAUDRY AVE FL 28
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Los Angeles
TSD EPA ID: CAD009007626
TSD County: Los Angeles
Waste Category: Asbestos containing waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.4
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113012546
Year: 2012
GEPAID: CAD982021594
Contact: SOE AUNG
Telephone: 2137455939
Mailing Name: Not reported
Mailing Address: 333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip: LOS ANGELES, CA 900170000
Gen County: Los Angeles
TSD EPA ID: CAD009007626

LAUSD/ BELVEDERE JH (Continued) **S113012546**

TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.4
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113012546
Year:	2010
GEPAID:	CAD982021594
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:	CAD009007626
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.8
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113012546
Year:	2007
GEPAID:	CAD982021594
Contact:	YI HWA KIM DEPUTY DIRECTOR
Telephone:	2137435086
Mailing Name:	Not reported
Mailing Address:	333 S Beaudry Ave 20th Fl
Mailing City,St,Zip:	Los Angeles, CA 900170000
Gen County:	Not reported
TSD EPA ID:	AZC950823111
TSD County:	Not reported
Waste Category:	Asbestos containing waste
Disposal Method:	Not reported
Tons:	12
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113012546
Year:	2007
GEPAID:	CAD982021594
Contact:	YI HWA KIM DEPUTY DIRECTOR
Telephone:	2137435086
Mailing Name:	Not reported
Mailing Address:	333 S Beaudry Ave 20th Fl
Mailing City,St,Zip:	Los Angeles, CA 900170000
Gen County:	Not reported
TSD EPA ID:	CAD097030993
TSD County:	Not reported

LAUSD/ BELVEDERE JH (Continued) **S113012546**

Waste Category: Other inorganic solid waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.84
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
16 additional CA_HAZNET: record(s) in the EDR Site Report.

6
NE
< 1/8
0.115 mi.
606 ft.

SANEZ EUTIO **EDR Hist Auto** **1009081723**
3969 BROOKLYN AVE **N/A**
LOS ANGELES, CA

Relative:
Lower

Actual:
298 ft.

EDR Hist Auto

Year:	Name:	Type:
1937	YOULE CHAS	GASOLINE AND OIL SERVICE STATIONS
1942	SANEZ EUTIO	GASOLINE AND OIL SERVICE STATIONS

7
South
1/8-1/4
0.166 mi.
878 ft.

FIRST STREET DUMP **SWF/LF** **S111075903**
134 NORTH NEVADA AVENUE **N/A**
BELVEDERE, CA 90063

Relative:
Lower

Actual:
305 ft.

LOS ANGELES CO. LF:
Site ID: 1934
Alt. Address: 3838 East 1st Street, Los Angeles, CA; 137 North Record Avenue, Los Angeles, CA
Site Contact: Not reported
Site Contact Phone: Not reported
Site Email: Not reported
Site Website: Not reported
Site Type: Municipal Solid Waste Landfill
Site SWIS Number: 19-AA-5374
Beginning Operation Date: 1940
Ending Operation Date: 1980
Local Enforcement Agency: County Public Health
Maximun Depth Fill(Ft): 50
Permitted Capacity: Not reported
Present Use: Residential
Remaining Capacity(Million): Not reported
Status: Closed
Waste Accepted: Inert; Residential
Hours of Operation: Not reported
Disposal Area (Acre): Not reported

Detail As Of 01/2014:
Operator Name: Unknown
Operator Address: Not reported
Operator City/State/Zip: Not reported
Operator Contact: Not reported
Operator Telephone: Not reported
Operator Email: Not reported

FIRST STREET DUMP (Continued) **S111075903**

Owner Name:	Unknown
Owner Address:	Not reported
Owner City/State/Zip:	Not reported
Owner Contact:	Not reported
Owner Telephone:	Not reported
Owner Email:	Not reported

---

8 **SUNOL DUMP 382** **SWF/LF** **S111076120**
SE **127 NORTH SUNOL DRIVE** **N/A**
1/8-1/4 **BELVEDERE, CA 90063**
0.208 mi.
1096 ft.

Relative:
Lower

Actual:
252 ft.

LOS ANGELES CO. LF:

Site ID:	2031
Alt. Address:	133 North Sunol Drive, Belvedere, CA; 111 Marianna Boulevard, Belvedere, CA
Site Contact:	Not reported
Site Contact Phone:	Not reported
Site Email:	Not reported
Site Website:	Not reported
Site Type:	Municipal Solid Waste Landfill
Site SWIS Number:	19-AA-5315
Beginning Operation Date:	Not reported
Ending Operation Date:	1949
Local Enforcement Agency:	Not reported
Maximun Depth Fill(Ft):	14
Permitted Capacity:	Not reported
Present Use:	Obregon Park
Remaining Capacity(Million):	Not reported
Status:	Closed
Waste Accepted:	Not reported
Hours of Operation:	Not reported
Disposal Area (Acre):	2.3

Detail As Of 01/2014:

Operator Name:	Unknown
Operator Address:	Not reported
Operator City/State/Zip:	Not reported
Operator Contact:	Not reported
Operator Telephone:	Not reported
Operator Email:	Not reported
Owner Name:	Unknown
Owner Address:	Not reported
Owner City/State/Zip:	Not reported
Owner Contact:	Not reported
Owner Telephone:	Not reported
Owner Email:	Not reported

B9
SSW
1/8-1/4
0.227 mi.
1200 ft.

MARY BEZAYIFF
3937 E. FIRST ST. , BELVEDERE
BELVEDERE, CA

Site 1 of 2 in cluster B

SWF/LF **S109821608**
N/A

Relative:
Lower

Actual:
309 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	19-AA-5675
Lat/Long:	34.03611 / -118.1825
Owner Name:	Not reported
Owner Telephone:	Not reported
Owner Address:	Not reported
Owner Address2:	Not reported
Owner City,St,Zip:	Not reported
Operational Status:	Not reported
Operator:	Not reported
Operator Phone:	Not reported
Operator Address:	Not reported
Operator Address2:	Not reported
Operator City,St,Zip:	Not reported
Permit Date:	Not reported
Permit Status:	Not reported
Permitted Acreage:	Not reported
Activity:	Not reported
Regulation Status:	Not reported
Landuse Name:	Residential
GIS Source:	Map
Category:	Not reported
Unit Number:	Not reported
Inspection Frequency:	Not reported
Accepted Waste:	Not reported
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	19-AA-5675
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	Not reported
Actual Throughput with Units:	Not reported
Permitted Capacity with Units:	Not reported
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Not reported
Lat/Long:	34.03611 / -118.1825

10
NW
1/8-1/4
0.227 mi.
1201 ft.

DOZIER ST UNITS
3805 DOZIER ST
LOS ANGELES, CA 90063

LUST **S112141905**
HAZNET **N/A**

Relative:
Higher

Actual:
315 ft.

LUST:

Region:	STATE
Global Id:	T10000004212
Latitude:	34.041629
Longitude:	-118.184451
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	11/23/2015
Lead Agency:	SWRCB

DOZIER ST UNITS (Continued) **S112141905**

Case Worker:	MC
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel, Ethylbenzene, Gasoline, Toluene, Total Petroleum Hydrocarbons (TPH), Xylene
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T10000004212
Contact Type:	Regional Board Caseworker
Contact Name:	MATTHEW COHEN
Organization Name:	SWRCB
Address:	1001 I Street
City:	SACRAMENTO
Email:	mcohen@waterboards.ca.gov
Phone Number:	9163415751

Global Id:	T10000004212
Contact Type:	Local Agency Caseworker
Contact Name:	PHILLIP GHARIBIANS-TABRIZI
Organization Name:	LOS ANGELES COUNTY
Address:	900 S. FREMONT AVE.
City:	ALHAMBRA
Email:	pgharibians@dpw.lacounty.gov
Phone Number:	Not reported

Status History:

Global Id:	T10000004212
Status:	Completed - Case Closed
Status Date:	11/23/2015

Global Id:	T10000004212
Status:	Open - Case Begin Date
Status Date:	06/06/2012

Global Id:	T10000004212
Status:	Open - Eligible for Closure
Status Date:	12/19/2014

Global Id:	T10000004212
Status:	Open - Site Assessment
Status Date:	08/02/2012

Regulatory Activities:

Global Id:	T10000004212
Action Type:	Other
Date:	06/06/2012
Action:	Leak Discovery

Global Id:	T10000004212
Action Type:	ENFORCEMENT
Date:	11/05/2015

DOZIER ST UNITS (Continued) **S112141905**

Action: Closure/No Further Action Letter

Global Id: T10000004212
Action Type: ENFORCEMENT
Date: 09/21/2014
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T10000004212
Action Type: ENFORCEMENT
Date: 04/17/2015
Action: State Water Board Closure Order

Global Id: T10000004212
Action Type: Other
Date: 06/06/2012
Action: Leak Stopped

Global Id: T10000004212
Action Type: ENFORCEMENT
Date: 10/14/2014
Action: Notification - Public Notice of Case Closure

Global Id: T10000004212
Action Type: ENFORCEMENT
Date: 08/21/2012
Action: Staff Letter

Global Id: T10000004212
Action Type: ENFORCEMENT
Date: 05/29/2013
Action: Referral to Regional Board

Global Id: T10000004212
Action Type: Other
Date: 07/18/2012
Action: Leak Reported

Global Id: T10000004212
Action Type: RESPONSE
Date: 07/25/2012
Action: Soil and Water Investigation Workplan

Global Id: T10000004212
Action Type: RESPONSE
Date: 10/15/2012
Action: Soil and Water Investigation Workplan - Addendum

HAZNET:
envid: S112141905
Year: 2013
GEPAID: CAC002741932
Contact: ARNULFO RUIZ
Telephone: 3237244477
Mailing Name: Not reported
Mailing Address: 830 N. WILCOX AVE.
Mailing City,St,Zip: MONTEBELLO, CA 90640

DOZIER ST UNITS (Continued) **S112141905**

Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.5
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported
envid:	S112141905
Year:	2013
GEPAID:	CAC002716521
Contact:	ARNULFO RUIZ
Telephone:	3237244477
Mailing Name:	Not reported
Mailing Address:	830 N. WILCOX AVE.
Mailing City,St,Zip:	MONTEBELLO, CA 90640
Gen County:	Los Angeles
TSD EPA ID:	CAD099452708
TSD County:	Los Angeles
Waste Category:	Not reported
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.114
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

11
SSE
1/8-1/4
0.240 mi.
1265 ft.

MARY BEZAYIFF **SWF/LF S103441633**
3937 EAST 1ST STREET **WMUDS/SWAT N/A**
BELVEDERE, CA 90063

Relative:
Lower

Actual:
287 ft.

LOS ANGELES CO. LF:

Site ID:	1984
Alt. Address:	117-119 South Bonnie Beach Place, Belvedere, CA
Site Contact:	Not reported
Site Contact Phone:	Not reported
Site Email:	Not reported
Site Website:	Not reported
Site Type:	Inert Landfill
Site SWIS Number:	19-AA-5675
Beginning Operation Date:	1935
Ending Operation Date:	1940
Local Enforcement Agency:	County Public Health
Maximun Depth Fill(Ft):	10
Permitted Capacity:	Not reported
Present Use:	Residential; Commercial
Remaining Capacity(Million):	Not reported
Status:	Closed
Waste Accepted:	Not reported
Hours of Operation:	Not reported
Disposal Area (Acre):	Not reported

Detail As Of 01/2014:

MARY BEZAYIFF (Continued) **S103441633**

Operator Name:	Unknown
Operator Address:	Not reported
Operator City/State/Zip:	Not reported
Operator Contact:	Not reported
Operator Telephone:	Not reported
Operator Email:	Not reported
Owner Name:	Unknown
Owner Address:	Not reported
Owner City/State/Zip:	Not reported
Owner Contact:	Not reported
Owner Telephone:	Not reported
Owner Email:	Not reported

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Not reported
Primary Waste:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Not reported
Agency Name:	MARY VEZAYIFF
Agency Department:	Not reported
Agency Address:	Not reported
Agency City,St,Zip:	Not reported
Agency Contact:	Not reported
Agency Telephone:	Not reported
Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	CA
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	4
Facility Type:	Not reported
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	Not reported
Primary SIC:	Not reported
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	False
Solid Waste Assessment Test Program:	True
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	MARY VEZAYIFF
Threat to Water Quality:	Not reported
Sub Chapter 15:	False

MARY BEZAYIFF (Continued) **S103441633**

Regional Board Project Officer:	LT
Number of WMUDS at Facility:	1
Section Range:	Not reported
RCRA Facility:	Not reported
Waste Discharge Requirements:	Not reported
Self-Monitoring Rept. Frequency:	Not reported
Waste Discharge System ID:	4 190441NUR
Solid Waste Information ID:	Not reported

12
SE
1/8-1/4
0.242 mi.
1277 ft.

S & M AUTO REPAIR **LUST** **S104891047**
3984 001ST ST E **N/A**
LOS ANGELES, CA 90063

Relative:
Lower

Actual:
253 ft.

LUST:

Region:	STATE
Global Id:	T0603705307
Latitude:	34.0030283
Longitude:	-117.8150664
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/07/1996
Lead Agency:	LOS ANGELES COUNTY
Case Worker:	JOA
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-20481
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Aviation
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603705307
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603705307
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603705307
Status:	Completed - Case Closed
Status Date:	02/07/1996

S & M AUTO REPAIR (Continued) **S104891047**

Global Id: T0603705307
Status: Open - Case Begin Date
Status Date: 02/07/1996

Regulatory Activities:
Global Id: T0603705307
Action Type: Other
Date: 02/07/1996
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-20481
Status: Case Closed
Substance: 1
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603705307
W Global ID: W0603700090
Staff: UNK
Local Agency: 19000
Cross Street: Not reported
Enforcement Type: Not reported
Date Leak Discovered: Not reported
Date Leak First Reported: 2/7/1996
Date Leak Record Entered: 5/1/1996
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 2/7/1996
Date the Case was Closed: 2/7/1996
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Operator: Not reported
Water System: SKYLINE MUTUAL
Well Name: Not reported
Approx. Dist To Production Well (ft): 16947.270497207046533527079128
Source of Cleanup Funding: Not reported
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported

S & M AUTO REPAIR (Continued) **S104891047**

Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	BLANK RP
RP Address:	24241 E SYLVAN GLEN RD, DIAMOND BAR CA 91765-4502
Program:	LUST
Lat/Long:	34.0030283 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	1900090-001GEN
Summary:	Not reported

B13 **SLOANS DRY CLEANERS** **RCRA-SQG 1000153056**
SSW **3852 E FIRST ST** **FINDS CAD981671605**
1/8-1/4 **LOS ANGELES, CA 90063** **ECHO**
0.246 mi.
1301 ft. **Site 2 of 2 in cluster B**

Relative:
Lower

Actual:
312 ft.

RCRA-SQG:

Date form received by agency:	11/05/1986
Facility name:	SLOANS DRY CLEANERS
Facility address:	3852 E FIRST ST LOS ANGELES, CA 90063
EPA ID:	CAD981671605
Mailing address:	E FIRST ST LOS ANGELES, CA 90063
Contact:	ENVIRONMENTAL MANAGER
Contact address:	3852 E FIRST ST LOS ANGELES, CA 90063
Contact country:	US
Contact telephone:	(213) 267-8854
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:	SOCIETY OF ST PAUL
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999

SLOANS DRY CLEANERS (Continued) **1000153056**

Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002744781

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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000153056
Registry ID: 110002744781
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002744781

---

14 **LOMELI RECYCLING CENTER** **SWRCY** **S107137259**
SSE **3976 E 1ST ST** **N/A**
1/4-1/2 **LOS ANGELES, CA 90063**
0.266 mi.
1404 ft.

Relative:
Lower

Actual:
256 ft.

SWRCY:
Reg Id: 23772
Cert Id: RC11918
Mailing Address: 303 N Townsend Ave

LOMELI RECYCLING CENTER (Continued) **S107137259**

Mailing City:	Los Angeles
Mailing State:	CA
Mailing Zip Code:	90063
Website:	Not reported
Email:	Not reported
Phone Number:	(323) 363-4697
Grand Father:	N
Rural:	N
Operation Begin Date:	09/29/2003
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	8:30 am - 5:00 pm
Tuesday Hours Of Operation:	8:30 am - 5:00 pm
Wednesday Hours Of Operation:	8:30 am - 5:00 pm
Thursday Hours Of Operation:	8:30 am - 5:00 pm
Friday Hours Of Operation:	8:30 am - 5:00 pm
Saturday Hours Of Operation:	9:00 am - 4:30 pm
Sunday Hours Of Operation:	CLOSED
Organization ID:	19040
Organization Name:	Lomeli Recycling Center

15
ENE
1/4-1/2
0.307 mi.
1621 ft.

LA UNIFIED SCHOOL DISTRICT
4141 E CESAR E CHAVEZ AVE
LOS ANGELES, CA 90063

LUST **S109348511**
N/A

Relative:
Lower

Actual:
273 ft.

LUST:

Region:	STATE
Global Id:	T10000000506
Latitude:	34.0408218984388
Longitude:	-118.176614389447
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/23/2015
Lead Agency:	SWRCB
Case Worker:	MC
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Toluene, Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T10000000506
Contact Type:	Local Agency Caseworker
Contact Name:	KATTYA BATRES RINZE
Organization Name:	LOS ANGELES COUNTY
Address:	900 SOUTH FREMONT AVE
City:	ALHAMBRA
Email:	gbatres@dpw.lacounty.gov

LA UNIFIED SCHOOL DISTRICT (Continued) **S109348511**

Phone Number: Not reported

Global Id: T10000000506
Contact Type: Regional Board Caseworker
Contact Name: MATTHEW COHEN
Organization Name: SWRCB
Address: 1001 I Street
City: SACRAMENTO
Email: mcohen@waterboards.ca.gov
Phone Number: 9163415751

Global Id: T10000000506
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T10000000506
Status: Completed - Case Closed
Status Date: 06/23/2015

Global Id: T10000000506
Status: Open - Case Begin Date
Status Date: 03/10/2008

Global Id: T10000000506
Status: Open - Eligible for Closure
Status Date: 12/19/2014

Global Id: T10000000506
Status: Open - Site Assessment
Status Date: 11/18/2008

Regulatory Activities:
Global Id: T10000000506
Action Type: ENFORCEMENT
Date: 06/25/2013
Action: Referral to Other State Agency

Global Id: T10000000506
Action Type: ENFORCEMENT
Date: 12/17/2014
Action: Notification - Public Notice of Case Closure

Global Id: T10000000506
Action Type: ENFORCEMENT
Date: 04/28/2008
Action: Staff Letter

Global Id: T10000000506
Action Type: ENFORCEMENT
Date: 06/23/2015

LA UNIFIED SCHOOL DISTRICT (Continued) **S109348511**

Action:	Closure/No Further Action Letter
Global Id:	T10000000506
Action Type:	Other
Date:	03/10/2008
Action:	Leak Reported
Global Id:	T10000000506
Action Type:	RESPONSE
Date:	03/10/2008
Action:	Tank Removal Report / UST Sampling Report
Global Id:	T10000000506
Action Type:	Other
Date:	03/10/2008
Action:	Leak Discovery
Global Id:	T10000000506
Action Type:	ENFORCEMENT
Date:	04/14/2015
Action:	State Water Board Closure Order
Global Id:	T10000000506
Action Type:	ENFORCEMENT
Date:	05/01/2008
Action:	Staff Letter
Global Id:	T10000000506
Action Type:	RESPONSE
Date:	05/27/2015
Action:	Well Destruction Report

16
NE
1/4-1/2
0.313 mi.
1653 ft.

C & R AUTO ELECTRIC **LUST S102425959**
506 BRANNICK AVE N **HIST CORTESE N/A**
LOS ANGELES, CA 90863

Relative:
Lower

Actual:
306 ft.

LUST:

Region:	STATE
Global Id:	T0603704451
Latitude:	34.0423639
Longitude:	-118.1778659
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/22/1997
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	JP
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-20450
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

C & R AUTO ELECTRIC (Continued) **S102425959**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704451
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704451
Contact Type:	Regional Board Caseworker
Contact Name:	JOSE PEREYRA
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	Not reported
City:	R4 UNKNOWN
Email:	Not reported
Phone Number:	Not reported

Status History:

Global Id:	T0603704451
Status:	Completed - Case Closed
Status Date:	10/22/1997

Global Id:	T0603704451
Status:	Open - Case Begin Date
Status Date:	04/12/1993

Global Id:	T0603704451
Status:	Open - Site Assessment
Status Date:	05/11/1993

Regulatory Activities:

Global Id:	T0603704451
Action Type:	Other
Date:	04/12/1993
Action:	Leak Discovery

Global Id:	T0603704451
Action Type:	Other
Date:	05/11/1993
Action:	Leak Reported

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	I-20450
Status:	Case Closed
Substance:	Hydrocarbons
Substance Quantity:	Not reported
Local Case No:	Not reported

C & R AUTO ELECTRIC (Continued) **S102425959**

Case Type:	Soil	
Abatement Method Used at the Site:		OT
Global ID:	T0603704451	
W Global ID:	Not reported	
Staff:	JP	
Local Agency:	19000	
Cross Street:	HAMMEL	
Enforcement Type:	Not reported	
Date Leak Discovered:	4/12/1993	
Date Leak First Reported:		5/11/1993
Date Leak Record Entered:	3/19/1993	
Date Confirmation Began:	5/11/1993	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		10/7/1993
Date the Case was Closed:		10/22/1997
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Tank	
Operator:	SILVA, RAUL OLD #121494-03	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		3682.4781883349706869569824359
Source of Cleanup Funding:		Tank
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	MERCEDES BELLHOUSE	
RP Address:	4115 HAMMEL ST LOS ANGELES CA 90063	
Program:	LUST	
Lat/Long:	34.0423639 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	Not reported	

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-20450

17
West
1/4-1/2
0.333 mi.
1758 ft.

CESAR ROWAN, LLC
3560 CESAR CHAVEZ AVE. E.
EAST LOS ANGELES, CA 90063

LUST **S106915838**
N/A

Relative:
Lower

Actual:
301 ft.

LUST:

Region:	STATE
Global Id:	T0603740312
Latitude:	34.040211
Longitude:	-118.187319
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/18/2016
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	JW
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-40965
LOC Case Number:	040965
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline, * Solvents
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603740312
Contact Type:	Regional Board Caseworker
Contact Name:	JIMMIE WOO
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 WEST 4TH STREET, SUITE 200
City:	LOS ANGELES
Email:	jwoo@waterboards.ca.gov
Phone Number:	2135766600

Global Id:	T0603740312
Contact Type:	Local Agency Caseworker
Contact Name:	RANI V. IYER
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE.
City:	ALHAMBRA
Email:	Not reported
Phone Number:	6264583560

Status History:

Global Id:	T0603740312
Status:	Completed - Case Closed
Status Date:	07/18/2016

Global Id:	T0603740312
Status:	Open - Case Begin Date
Status Date:	12/20/1996

Global Id:	T0603740312
Status:	Open - Remediation
Status Date:	03/05/2008

Global Id:	T0603740312

CESAR ROWAN, LLC (Continued) **S106915838**

Status: Open - Remediation
Status Date: 04/16/2015

Global Id: T0603740312
Status: Open - Site Assessment
Status Date: 12/20/1996

Global Id: T0603740312
Status: Open - Site Assessment
Status Date: 09/23/2004

Global Id: T0603740312
Status: Open - Site Assessment
Status Date: 06/18/2006

Global Id: T0603740312
Status: Open - Site Assessment
Status Date: 12/20/2006

Regulatory Activities:
Global Id: T0603740312
Action Type: RESPONSE
Date: 04/23/2007
Action: Monitoring Report - Quarterly

Global Id: T0603740312
Action Type: RESPONSE
Date: 07/27/2011
Action: Other Workplan

Global Id: T0603740312
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603740312
Action Type: RESPONSE
Date: 10/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603740312
Action Type: RESPONSE
Date: 09/15/2008
Action: Remedial Progress Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 11/21/2008
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0603740312
Action Type: RESPONSE
Date: 04/15/2010
Action: Remedial Progress Report

Global Id: T0603740312
Action Type: RESPONSE

CESAR ROWAN, LLC (Continued) **S106915838**

Date: 08/19/2015
Action: Soil and Water Investigation Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 12/20/2006
Action: Soil and Water Investigation Workplan

Global Id: T0603740312
Action Type: RESPONSE
Date: 04/26/2007
Action: Well Installation Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 04/26/2007
Action: Interim Remedial Action Plan

Global Id: T0603740312
Action Type: RESPONSE
Date: 10/13/2006
Action: Well Installation Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 12/22/2011
Action: Remedial Progress Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 10/15/2010
Action: Remedial Progress Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 11/21/2008
Action: Soil and Water Investigation Workplan

Global Id: T0603740312
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603740312
Action Type: RESPONSE
Date: 10/15/2008
Action: Remedial Progress Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603740312
Action Type: RESPONSE
Date: 07/15/2009
Action: Remedial Progress Report

CESAR ROWAN, LLC (Continued) **S106915838**

Global Id: T0603740312
Action Type: RESPONSE
Date: 07/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603740312
Action Type: RESPONSE
Date: 07/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603740312
Action Type: RESPONSE
Date: 03/05/2008
Action: CAP/RAP - Feasibility Study Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 01/15/2011
Action: Remedial Progress Report

Global Id: T0603740312
Action Type: ENFORCEMENT
Date: 05/14/2015
Action: Staff Letter

Global Id: T0603740312
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603740312
Action Type: ENFORCEMENT
Date: 10/07/2008
Action: Staff Letter

Global Id: T0603740312
Action Type: ENFORCEMENT
Date: 12/11/2015
Action: Notification - Preclosure

Global Id: T0603740312
Action Type: RESPONSE
Date: 04/15/2008
Action: Remedial Progress Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603740312
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603740312
Action Type: RESPONSE

CESAR ROWAN, LLC (Continued) **S106915838**

Date: 12/09/2011
Action: Soil and Water Investigation Report

Global Id: T0603740312
Action Type: ENFORCEMENT
Date: 01/16/2009
Action: Staff Letter

Global Id: T0603740312
Action Type: ENFORCEMENT
Date: 04/17/2015
Action: Staff Letter

Global Id: T0603740312
Action Type: RESPONSE
Date: 05/24/2012
Action: Remedial Progress Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 07/17/2012
Action: Well Installation Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 07/15/2010
Action: Remedial Progress Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 11/30/2006
Action: Other Report / Document

Global Id: T0603740312
Action Type: RESPONSE
Date: 01/15/2007
Action: Well Installation Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603740312
Action Type: RESPONSE
Date: 04/15/2011
Action: Remedial Progress Report

Global Id: T0603740312
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603740312
Action Type: RESPONSE
Date: 06/20/2011
Action: Clean Up Fund - 5-Year Review Summary

CESAR ROWAN, LLC (Continued) **S106915838**

Global Id: T0603740312
Action Type: RESPONSE
Date: 01/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0603740312
Action Type: RESPONSE
Date: 07/15/2013
Action: Remedial Progress Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 05/03/2013
Action: Well Installation Report

Global Id: T0603740312
Action Type: ENFORCEMENT
Date: 10/18/2006
Action: Staff Letter

Global Id: T0603740312
Action Type: ENFORCEMENT
Date: 07/18/2016
Action: Closure/No Further Action Letter

Global Id: T0603740312
Action Type: Other
Date: 06/02/2004
Action: Leak Reported

Global Id: T0603740312
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603740312
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603740312
Action Type: RESPONSE
Date: 02/16/2012
Action: Remedial Progress Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603740312
Action Type: RESPONSE
Date: 07/15/2009
Action: Well Installation Report

Global Id: T0603740312
Action Type: RESPONSE

CESAR ROWAN, LLC (Continued) **S106915838**

Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603740312
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603740312
Action Type: RESPONSE
Date: 05/20/2015
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T0603740312
Action Type: RESPONSE
Date: 09/11/2015
Action: Request for Closure - Regulator Responded

Global Id: T0603740312
Action Type: Other
Date: 03/19/2004
Action: Leak Discovery

Global Id: T0603740312
Action Type: RESPONSE
Date: 01/15/2009
Action: Remedial Progress Report

Global Id: T0603740312
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603740312
Action Type: RESPONSE
Date: 01/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603740312
Action Type: RESPONSE
Date: 01/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603740312
Action Type: REMEDIATION
Date: 08/07/2007
Action: Free Product Removal

Global Id: T0603740312
Action Type: REMEDIATION
Date: 05/03/2013
Action: Soil Vapor Extraction (SVE)

Global Id: T0603740312
Action Type: REMEDIATION
Date: 11/16/2004
Action: Excavation

18
ENE
1/4-1/2
0.339 mi.
1792 ft.

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B)
HAMMEL STREET/CESAR E. CHAVEZ AVENUE/EASTERN AVENUE/BRANNICK
LOS ANGELES, CA 90063

ENVIROSTOR
SCH
DEED

S107736250
N/A

Relative:
Lower

Actual:
273 ft.

ENVIROSTOR:

Facility ID:	60000041
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	11/23/2010
Site Code:	304506
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	12
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Johnson Abraham
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	51
Senate:	24
Special Program:	Not reported
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.0418
Longitude:	-118.1765
APN:	5233-004-904, 5233-004-905, 5233-004-906, 5233-004-907, 5233-004-908, 5233-004-909, 5233-004-910, 5233-004-911, 5233-004-912, 5233-004-913, 5233-004-914, 5233-004-915, 5233-004-916, 5233-004-917, 5233-004-918, 5233-004-919, 5233-004-920, 5233-004-921, 5233-004-922, 5233004903, 5234-002-900, 5234-002-901, 5234-002-902, 5234-002-903, 5234-002-904, 5234-002-905, 5234-002-906, 5234-002-907, 5234-002-908
Past Use:	ILLEGAL DUMPING, ILLEGAL DUMPING
Potential COC:	Arsenic Dioxin (as 2,3,7,8-TCDD TEQ Lead Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas Arsenic Lead TPH-diesel Furan Polynuclear aromatic hydrocarbons (PAHs 2,3,7,8-TCDD (dioxin
Confirmed COC:	Polynuclear aromatic hydrocarbons (PAHs TPH-diesel 2,3,7,8-TCDD (dioxin Furan Arsenic Lead Arsenic Polynuclear aromatic hydrocarbons (PAHs TPH-diesel TPH-gas Lead Dioxin (as 2,3,7,8-TCDD TEQ
Potential Description:	SOIL, SOIL
Alias Name:	ELA Perf Arts Academy-Esteban Torres HS #D5
Alias Type:	Alternate Name
Alias Name:	ELAHS#2
Alias Type:	Alternate Name
Alias Name:	East Los Angeles High School #2
Alias Type:	Alternate Name
Alias Name:	Esteban E. Torres High School
Alias Type:	Alternate Name
Alias Name:	Esteban E. Torres High School Academies
Alias Type:	Alternate Name
Alias Name:	LAUSD-EAST LA HIGH SCHOOL #2 AREA D
Alias Type:	Alternate Name
Alias Name:	LAUSD-EAST LA HS #2 (SITE #40B)
Alias Type:	Alternate Name
Alias Name:	5233-004-904
Alias Type:	APN
Alias Name:	5233-004-905

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Alias Type:	APN
Alias Name:	5233-004-906
Alias Type:	APN
Alias Name:	5233-004-907
Alias Type:	APN
Alias Name:	5233-004-908
Alias Type:	APN
Alias Name:	5233-004-909
Alias Type:	APN
Alias Name:	5233-004-910
Alias Type:	APN
Alias Name:	5233-004-911
Alias Type:	APN
Alias Name:	5233-004-912
Alias Type:	APN
Alias Name:	5233-004-913
Alias Type:	APN
Alias Name:	5233-004-914
Alias Type:	APN
Alias Name:	5233-004-915
Alias Type:	APN
Alias Name:	5233-004-916
Alias Type:	APN
Alias Name:	5233-004-917
Alias Type:	APN
Alias Name:	5233-004-918
Alias Type:	APN
Alias Name:	5233-004-919
Alias Type:	APN
Alias Name:	5233-004-920
Alias Type:	APN
Alias Name:	5233-004-921
Alias Type:	APN
Alias Name:	5233-004-922
Alias Type:	APN
Alias Name:	5233004903
Alias Type:	APN
Alias Name:	5234-002-900
Alias Type:	APN
Alias Name:	5234-002-901
Alias Type:	APN
Alias Name:	5234-002-902
Alias Type:	APN
Alias Name:	5234-002-903
Alias Type:	APN
Alias Name:	5234-002-904
Alias Type:	APN
Alias Name:	5234-002-905
Alias Type:	APN
Alias Name:	5234-002-906
Alias Type:	APN
Alias Name:	5234-002-907
Alias Type:	APN
Alias Name:	5234-002-908
Alias Type:	APN
Alias Name:	110033618707
Alias Type:	EPA (FRS #)

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Alias Name: 304457
Alias Type: Site Code - Historical
Alias Name: 304506
Alias Type: Project Code (Site Code)
Alias Name: 60000041
Alias Type: Envirostor ID Number
Alias Name: 60000110
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 09/04/2007
Comments: Rec'd signature page to amend Master EOA to Master SCA

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/20/2007
Comments: Issued CRU Memo for Area D.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/15/2016
Comments: Annual Cost Estimate Letter, dated 09/15/16, sent to LAUSD.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 02/10/2011
Comments: DTSC reviewed the LUC annual inspection report and acknowledged the report satisfactorily addressed the LUC annual inspection requirements.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 01/25/2012
Comments: DTSC reviewed the LUC annual inspection report and acknowledged the report satisfactorily addressed the LUC annual inspection requirements.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2015
Comments: Annual Cost Estimate emailed and mailed to LAUSD.

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/18/2004
Comments: Not reported

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/17/2004
Comments: Not reported

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/14/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/11/2010
Comments: DTSC certified that all appropriate response actions according to DTSC-approved Removal Action Workplan and Remedial Action Plan have been completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/09/2004
Comments: Not reported

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 09/07/2007
Comments: Signed the final Notice of Exemption for the RAW (Area D.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 01/28/2010
Comments: DTSC reviewed the LUC annual inspection report and provided comments to be addressed in future inspection reports.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 01/15/2013
Comments: DTSC reviewed the LUC annual inspection report and acknowledged the report satisfactorily addressed the LUC annual inspection requirements.

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/30/2005
Comments: Not reported

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Completed Area Name:	Area(s) A/B/C
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	09/07/2005
Comments:	Approved RAW for implementation.

Completed Area Name:	Area(s) A/B/C
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	07/20/2004
Comments:	Verbal general concurrance with sampling approach, field work in progress already

Completed Area Name:	Area B
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	04/06/2006
Comments:	Issued approval of Removal Action Completion Report (RACR) for lead from Lead-Based Paint. RACR for B and C pending.

Completed Area Name:	Area(s) A/B/C
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	07/23/2007
Comments:	Approved the RACR for Area A (LA Princesita) and Area C. Area A residential area requires further action to address elevated levels of lead.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	01/25/2007
Comments:	Issued conditionally LBP SSI approval letter provided comments are addressed in the RAW.

Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	09/07/2007
Comments:	Issued Final RAW approval letter for the removal of 729 cubic yards of lead, total petroleum, chlordane and dieldrin impacted soil.

Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	05/23/2005
Comments:	Field /verbal concurrance in the soil boring locations

Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	11/23/2005
Comments:	PEA approved requiring Further Action, including further investigation required for metals/OCP/ benzene and PAHs, and Removal Action Workplan for lead. Notified in email on 11/22/05 of public comment period and transcript of hearing provided, no written comments received.

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 09/28/2006
Comments: Issued SSI approval letter with further action for chlordane, dieldrin, lead and PAH's. An additional SSI will be issued for lead-based paint.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 04/30/2007
Comments: Approved the Technical Memorandum Workplan Via electronic mail.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Tech Memo
Completed Date: 07/26/2007
Comments: Issued Supplemental Site Investigation (SSI) approval letter for Area D.

Completed Area Name: Area A
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 08/30/2007
Comments: Issued RACR approval letter for Area A.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/24/2007
Comments: Issued SFPD Form 4.15 to the Los Angeles Unified School District.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 09/07/2007
Comments: Issued a response to comment letter for the one comment received regarding past chemical exposure.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 01/04/2008
Comments: Approved the partial site approval request for Area D-1.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan
Completed Date: 01/24/2008
Comments: Issued Final RAP approval letter for the removal of 3,000 cubic yards of impacted soil in Area D.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 12/21/2007

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Comments: Approved the Fact Sheet for Area D.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/14/2008
Comments: On March 14, 2008, DTSC approved the RACR for Area D noting that certification that all response actions have been completed will be issued after an Operations and Maintenance Monitoring Plan and Land Use Covenant are approved by DTSC.

Completed Area Name: Area B
Completed Sub Area Name: Not reported
Completed Document Type: Tank Removal Report
Completed Date: 09/17/2009
Comments: Via email on September 17, 2009, DTSC informed LAUSD that DTSC concurs with the conclusions of the UST Closure Report and, consequently, school construction activities may resume in the area of the former UST.

Completed Area Name: Area B
Completed Sub Area Name: Not reported
Completed Document Type: Tank Removal Report
Completed Date: 05/17/2010
Comments: Via email on May 17, 2010, DTSC informed LAUSD that DTSC concurs with the conclusion of the UST Closure Report.

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/01/2005
Comments: Draft RAW Fact Sheet - English & Spanish - Areas A, B & C

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/15/2007
Comments: RAW Fact Sheet 07

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 06/01/2005
Comments: Not reported

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/01/2007
Comments: RAW Public Notice

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 12/01/2007
Comments: Not reported

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 06/01/2005
Comments: DTSC approved the Community Profile, dated June 2005.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 04/02/2014
Comments: DTSC reviewed the response to comments on the LUC annual inspection report and acknowledged that DTSC comments were adequately addressed.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 01/29/2015
Comments: DTSC conditionally accepted the Report with specific replacement text provided by DTSC.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 01/29/2015
Comments: DTSC indicated the revised Five-Year Review Report was inadequate, and DTSC did not concur with the recommendation to reduce the Land Use Covenant inspection and reporting frequency to coincide with Five-Year Reviews. To complete the intent of the Report, DTSC evaluated the post-remediation lead in soil results (of 2008) with respect to the current lead in soil cleanup level and considers the Site to be protective of human health.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/21/2009
Comments: In a letter, dated April 21, 2009, DTSC documented the agreement that the development of an Operation and Maintenance Monitoring Plan would not be necessary as such a document would be redundant of the requirements set forth in the land use covenant. The Memo to the Site File, dated April 21, 2009, which formally documents this minor change to the Remedial Action Plan, was enclosed. Consequently, an Operation and Maintenance Agreement would not be necessary.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 04/11/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/10/2016
Comments: Via email on March 10, 2016, DTSC provided notification of the DTSC project manager change for the Site, effective immediately

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 08/24/2007
Comments: Amended SCA Master Agreement to add this site

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/26/2010
Comments: Via email on 01/26/2010, DTSC provided the Closeout Memo to the Cost Recovery Unit requesting that Site Code 304457 be closed out. This Site has two Site Codes (304457 and 304506). Site Code 304457 has not been charged to since December 2008 and all charges under this Site Code have been paid in full.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Environmental Impact Report
Completed Date: 12/20/2007
Comments: The Initial Study for Area D was signed.

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 07/01/2005
Comments: Not reported

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 08/20/2009
Comments: The "Covenant to Restrict Use of Property, Environmental Restriction" was recorded with the County of Los Angeles on August 20, 2009. The Covenant prohibits the property to be used for raising of food, activities that may disturb the soil / clean fill at or below 2 feet above the impacted soil, and other activities.

Future Area Name: Area D
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2019
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 60000041

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	12
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Johnson Abraham
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304506
Assembly:	51
Senate:	24
Special Program Status:	Not reported
Status:	Certified O&M - Land Use Restrictions Only
Status Date:	11/23/2010
Restricted Use:	YES
Funding:	School District
Latitude:	34.0418
Longitude:	-118.1765
APN:	5233-004-904, 5233-004-905, 5233-004-906, 5233-004-907, 5233-004-908, 5233-004-909, 5233-004-910, 5233-004-911, 5233-004-912, 5233-004-913, 5233-004-914, 5233-004-915, 5233-004-916, 5233-004-917, 5233-004-918, 5233-004-919, 5233-004-920, 5233-004-921, 5233-004-922, 5233004903, 5234-002-900, 5234-002-901, 5234-002-902, 5234-002-903, 5234-002-904, 5234-002-905, 5234-002-906, 5234-002-907, 5234-002-908
Past Use:	ILLEGAL DUMPING, ILLEGAL DUMPING
Potential COC:	Arsenic, Dioxin (as 2,3,7,8-TCDD TEQ, Lead, Polynuclear aromatic hydrocarbons (PAHs, TPH-diesel, TPH-gas, Arsenic, Lead, TPH-diesel, Furan, Polynuclear aromatic hydrocarbons (PAHs, 2,3,7,8-TCDD (dioxin
Confirmed COC:	Polynuclear aromatic hydrocarbons (PAHs, TPH-diesel, 2,3,7,8-TCDD (dioxin, Furan, Arsenic, Lead, , Arsenic, Arsenic, Polynuclear aromatic hydrocarbons (PAHs, TPH-diesel, TPH-gas, Lead, Dioxin (as 2,3,7,8-TCDD TEQ
Potential Description:	SOIL, SOIL
Alias Name:	ELA Perf Arts Academy-Esteban Torres HS #D5
Alias Type:	Alternate Name
Alias Name:	ELAHS#2
Alias Type:	Alternate Name
Alias Name:	East Los Angeles High School #2
Alias Type:	Alternate Name
Alias Name:	Esteban E. Torres High School
Alias Type:	Alternate Name
Alias Name:	Esteban E. Torres High School Academies
Alias Type:	Alternate Name
Alias Name:	LAUSD-EAST LA HIGH SCHOOL #2 AREA D
Alias Type:	Alternate Name
Alias Name:	LAUSD-EAST LA HS #2 (SITE #40B)
Alias Type:	Alternate Name
Alias Name:	5233-004-904
Alias Type:	APN
Alias Name:	5233-004-905
Alias Type:	APN
Alias Name:	5233-004-906
Alias Type:	APN
Alias Name:	5233-004-907

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Alias Type:	APN
Alias Name:	5233-004-908
Alias Type:	APN
Alias Name:	5233-004-909
Alias Type:	APN
Alias Name:	5233-004-910
Alias Type:	APN
Alias Name:	5233-004-911
Alias Type:	APN
Alias Name:	5233-004-912
Alias Type:	APN
Alias Name:	5233-004-913
Alias Type:	APN
Alias Name:	5233-004-914
Alias Type:	APN
Alias Name:	5233-004-915
Alias Type:	APN
Alias Name:	5233-004-916
Alias Type:	APN
Alias Name:	5233-004-917
Alias Type:	APN
Alias Name:	5233-004-918
Alias Type:	APN
Alias Name:	5233-004-919
Alias Type:	APN
Alias Name:	5233-004-920
Alias Type:	APN
Alias Name:	5233-004-921
Alias Type:	APN
Alias Name:	5233-004-922
Alias Type:	APN
Alias Name:	5233004903
Alias Type:	APN
Alias Name:	5234-002-900
Alias Type:	APN
Alias Name:	5234-002-901
Alias Type:	APN
Alias Name:	5234-002-902
Alias Type:	APN
Alias Name:	5234-002-903
Alias Type:	APN
Alias Name:	5234-002-904
Alias Type:	APN
Alias Name:	5234-002-905
Alias Type:	APN
Alias Name:	5234-002-906
Alias Type:	APN
Alias Name:	5234-002-907
Alias Type:	APN
Alias Name:	5234-002-908
Alias Type:	APN
Alias Name:	110033618707
Alias Type:	EPA (FRS #)
Alias Name:	304457
Alias Type:	Site Code - Historical
Alias Name:	304506
Alias Type:	Project Code (Site Code)

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Alias Name: 60000041
Alias Type: Envirostor ID Number
Alias Name: 60000110
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 09/04/2007
Comments: Rec'd signature page to amend Master EOA to Master SCA

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/20/2007
Comments: Issued CRU Memo for Area D.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/15/2016
Comments: Annual Cost Estimate Letter, dated 09/15/16, sent to LAUSD.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 02/10/2011
Comments: DTSC reviewed the LUC annual inspection report and acknowledged the report satisfactorily addressed the LUC annual inspection requirements.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 01/25/2012
Comments: DTSC reviewed the LUC annual inspection report and acknowledged the report satisfactorily addressed the LUC annual inspection requirements.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/22/2015
Comments: Annual Cost Estimate emailed and mailed to LAUSD.

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 08/18/2004
Comments: Not reported

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/17/2004
Comments: Not reported

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 09/14/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/11/2010
Comments: DTSC certified that all appropriate response actions according to DTSC-approved Removal Action Workplan and Remedial Action Plan have been completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 07/09/2004
Comments: Not reported

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 09/07/2007
Comments: Signed the final Notice of Exemption for the RAW (Area D.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 01/28/2010
Comments: DTSC reviewed the LUC annual inspection report and provided comments to be addressed in future inspection reports.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: * Land Use Restriction Monitoring Report
Completed Date: 01/15/2013
Comments: DTSC reviewed the LUC annual inspection report and acknowledged the report satisfactorily addressed the LUC annual inspection requirements.

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 03/30/2005
Comments: Not reported

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 09/07/2005

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Comments:	Approved RAW for implementation.
Completed Area Name:	Area(s) A/B/C
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	07/20/2004
Comments:	Verbal general concurrance with sampling approach, field work in progress already
Completed Area Name:	Area B
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	04/06/2006
Comments:	Issued approval of Removal Action Completion Report (RACR) for lead from Lead-Based Paint. RACR for B and C pending.
Completed Area Name:	Area(s) A/B/C
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	07/23/2007
Comments:	Approved the RACR for Area A (LA Princesita) and Area C. Area A residential area requires further action to address elevated levels of lead.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report
Completed Date:	01/25/2007
Comments:	Issued conditionally LBP SSI approval letter provided comments are addressed in the RAW.
Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	09/07/2007
Comments:	Issued Final RAW approval letter for the removal of 729 cubic yards of lead, total petroleum, chlordane and dieldrin impacted soil.
Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	05/23/2005
Comments:	Field /verbal concurrance in the soil boring locations
Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	11/23/2005
Comments:	PEA approved requiring Further Action, including further investigation required for metals/OCP/ benzene and PAHs, and Removal Action Workplan for lead. Notified in email on 11/22/05 of public comment period and transcript of hearing provided, no written comments received.
Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Report

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Completed Date:	09/28/2006
Comments:	Issued SSI approval letter with further action for chlordane, dieldrin, lead and PAH's. An additional SSI will be issued for lead-based paint.
Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Workplan
Completed Date:	04/30/2007
Comments:	Approved the Technical Memorandum Workplan Via electronic mail.
Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Tech Memo
Completed Date:	07/26/2007
Comments:	Issued Supplemental Site Investigation (SSI) approval letter for Area D.
Completed Area Name:	Area A
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	08/30/2007
Comments:	Issued RACR approval letter for Area A.
Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	08/24/2007
Comments:	Issued SFPD Form 4.15 to the Los Angeles Unified School District.
Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	*Correspondence - Received
Completed Date:	09/07/2007
Comments:	Issued a response to comment letter for the one comment received regarding past chemical exposure.
Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	01/04/2008
Comments:	Approved the partial site approval request for Area D-1.
Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Plan
Completed Date:	01/24/2008
Comments:	Issued Final RAP approval letter for the removal of 3,000 cubic yards of impacted soil in Area D.
Completed Area Name:	Area D
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	12/21/2007
Comments:	Approved the Fact Sheet for Area D.
Completed Area Name:	Area D

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 03/14/2008
Comments: On March 14, 2008, DTSC approved the RACR for Area D noting that certification that all response actions have been completed will be issued after an Operations and Maintenance Monitoring Plan and Land Use Covenant are approved by DTSC.

Completed Area Name: Area B
Completed Sub Area Name: Not reported
Completed Document Type: Tank Removal Report
Completed Date: 09/17/2009
Comments: Via email on September 17, 2009, DTSC informed LAUSD that DTSC concurs with the conclusions of the UST Closure Report and, consequently, school construction activities may resume in the area of the former UST.

Completed Area Name: Area B
Completed Sub Area Name: Not reported
Completed Document Type: Tank Removal Report
Completed Date: 05/17/2010
Comments: Via email on May 17, 2010, DTSC informed LAUSD that DTSC concurs with the conclusion of the UST Closure Report.

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 06/01/2005
Comments: Draft RAW Fact Sheet - English & Spanish - Areas A, B & C

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 07/15/2007
Comments: RAW Fact Sheet 07

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 06/01/2005
Comments: Not reported

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 07/01/2007
Comments: RAW Public Notice

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 12/01/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Completed Date: 06/01/2005
Comments: DTSC approved the Community Profile, dated June 2005.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 04/02/2014
Comments: DTSC reviewed the response to comments on the LUC annual inspection report and acknowledged that DTSC comments were adequately addressed.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 01/29/2015
Comments: DTSC conditionally accepted the Report with specific replacement text provided by DTSC.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: 5 Year Review Reports
Completed Date: 01/29/2015
Comments: DTSC indicated the revised Five-Year Review Report was inadequate, and DTSC did not concur with the recommendation to reduce the Land Use Covenant inspection and reporting frequency to coincide with Five-Year Reviews. To complete the intent of the Report, DTSC evaluated the post-remediation lead in soil results (of 2008) with respect to the current lead in soil cleanup level and considers the Site to be protective of human health.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 04/21/2009
Comments: In a letter, dated April 21, 2009, DTSC documented the agreement that the development of an Operation and Maintenance Monitoring Plan would not be necessary as such a document would be redundant of the requirements set forth in the land use covenant. The Memo to the Site File, dated April 21, 2009, which formally documents this minor change to the Remedial Action Plan, was enclosed. Consequently, an Operation and Maintenance Agreement would not be necessary.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction Monitoring Report
Completed Date: 04/11/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/08/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/10/2016

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Comments: Via email on March 10, 2016, DTSC provided notification of the DTSC project manager change for the Site, effective immediately

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: School Cleanup Agreement
Completed Date: 08/24/2007
Comments: Amended SCA Master Agreement to add this site

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/26/2010
Comments: Via email on 01/26/2010, DTSC provided the Closeout Memo to the Cost Recovery Unit requesting that Site Code 304457 be closed out. This Site has two Site Codes (304457 and 304506). Site Code 304457 has not been charged to since December 2008 and all charges under this Site Code have been paid in full.

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Initial Study/ Environmental Impact Report
Completed Date: 12/20/2007
Comments: The Initial Study for Area D was signed.

Completed Area Name: Area(s) A/B/C
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 07/01/2005
Comments: Not reported

Completed Area Name: Area D
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 08/20/2009
Comments: The "Covenant to Restrict Use of Property, Environmental Restriction" was recorded with the County of Los Angeles on August 20, 2009. The Covenant prohibits the property to be used for raising of food, activities that may disturb the soil / clean fill at or below 2 feet above the impacted soil, and other activities.

Future Area Name: Area D
Future Sub Area Name: Not reported
Future Document Type: 5 Year Review Reports
Future Due Date: 2019
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

DEED:
Envirostor ID: 60000041
Area: AREA D
Sub Area: Not reported
Site Type: SCHOOL CLEANUP
Status: CERTIFIED O&M - LAND USE RESTRICTIONS ONLY

EAST LOS ANGELES HIGH SCHOOL#2 (SITE40B) (Continued) **S107736250**

Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 08/20/2009

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19 **FIRST STREET DUMP** **SWF/LF** **S103945811**
SSE **134-36 N. NEVADA AVE & FIRST ST & HERBER** **N/A**
1/4-1/2 **BELVEDERE, CA**
0.344 mi.
1818 ft.

Relative:
Lower

Actual:
260 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	19-AA-5374
Lat/Long:	34.03453 / -118.17992
Owner Name:	Several Land Owners (Home Owners)
Owner Telephone:	Not reported
Owner Address:	Not reported
Owner Address2:	Not reported
Owner City,St,Zip:	Not reported
Operational Status:	Closed
Operator:	Not reported
Operator Phone:	Not reported
Operator Address:	Not reported
Operator Address2:	Not reported
Operator City,St,Zip:	Not reported
Permit Date:	Not reported
Permit Status:	Not reported
Permitted Acreage:	$0.00
Activity:	Solid Waste Disposal Site
Regulation Status:	To Be Determined
Landuse Name:	Residential,Commercial
GIS Source:	GPS
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Not reported
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	$0.00
SWIS Num:	19-AA-5374
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	0
Actual Throughput with Units:	Not reported
Permitted Capacity with Units:	0
Remaining Capacity:	0
Remaining Capacity with Units:	Not reported
Lat/Long:	34.03453 / -118.17992

20
WNW
1/4-1/2
0.380 mi.
2009 ft.

ARCO #09525 — **LUST** — **S102439025**
3541 EAST CESAR CHAVEZ AVE — **HIST CORTESE** — **N/A**
LOS ANGELES, CA 90063

Relative:
Lower

Actual:
301 ft.

LUST:

Region:	STATE
Global Id:	T0603704981
Latitude:	34.040755
Longitude:	-118.187925
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	03/18/1997
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-10934
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704981
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704981
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603704981
Status:	Completed - Case Closed
Status Date:	03/18/1997

Global Id:	T0603704981
Status:	Open - Case Begin Date
Status Date:	04/09/1996

Regulatory Activities:

Global Id:	T0603704981
Action Type:	ENFORCEMENT
Date:	03/09/2012
Action:	Closure/No Further Action Letter

ARCO #09525 (Continued) **S102439025**

Global Id: T0603704981
Action Type: ENFORCEMENT
Date: 03/09/2012
Action: Closure/No Further Action Letter

Global Id: T0603704981
Action Type: Other
Date: 04/09/1996
Action: Leak Discovery

Global Id: T0603704981
Action Type: Other
Date: 04/09/1996
Action: Leak Stopped

Global Id: T0603704981
Action Type: Other
Date: 04/09/1996
Action: Leak Reported

Region: STATE
Global Id: T10000002650
Latitude: 34.0407227550066
Longitude: -118.188025206327
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 03/09/2012
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: JW
Local Agency: LOS ANGELES COUNTY
RB Case Number: R-10934A
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Benzene, Toluene, Xylene, MTBE / TBA / Other Fuel Oxygenates, Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T10000002650
Contact Type: Regional Board Caseworker
Contact Name: JIMMIE WOO
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 WEST 4TH STREET, SUITE 200
City: LOS ANGELES
Email: jwoo@waterboards.ca.gov
Phone Number: 2135766600

Global Id: T10000002650
Contact Type: Local Agency Caseworker
Contact Name: PHILLIP GHARIBIANS-TABRIZI
Organization Name: LOS ANGELES COUNTY
Address: 900 S. FREMONT AVE.
City: ALHAMBRA
Email: pgharibians@dpw.lacounty.gov
Phone Number: Not reported

ARCO #09525 (Continued) **S102439025**

Status History:

Global Id:	T10000002650
Status:	Completed - Case Closed
Status Date:	03/09/2012
Global Id:	T10000002650
Status:	Open - Case Begin Date
Status Date:	11/23/2010
Global Id:	T10000002650
Status:	Open - Site Assessment
Status Date:	11/23/2010

Regulatory Activities:

Global Id:	T10000002650
Action Type:	ENFORCEMENT
Date:	02/13/2012
Action:	Notification - Preclosure
Global Id:	T10000002650
Action Type:	ENFORCEMENT
Date:	03/09/2012
Action:	Closure/No Further Action Letter
Global Id:	T10000002650
Action Type:	ENFORCEMENT
Date:	03/09/2012
Action:	Closure/No Further Action Letter
Global Id:	T10000002650
Action Type:	ENFORCEMENT
Date:	05/13/2011
Action:	Staff Letter
Global Id:	T10000002650
Action Type:	RESPONSE
Date:	07/15/2011
Action:	Other Report / Document
Global Id:	T10000002650
Action Type:	ENFORCEMENT
Date:	02/24/2011
Action:	Referral to Regional Board

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	R-10934
Status:	Case Closed
Substance:	Gasoline
Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Soil
Abatement Method Used at the Site:	OT

ARCO #09525 (Continued) **S102439025**

Global ID:	T0603704981	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	TOWNSEND	
Enforcement Type:	Not reported	
Date Leak Discovered:	4/9/1996	
Date Leak First Reported:		4/9/1996
Date Leak Record Entered:	6/10/1996	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	4/9/1996	
Date Case Last Changed on Database:		9/9/1996
Date the Case was Closed:		3/18/1997
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	D'AMICO, PETER	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		3000.728440002676255045254 1605
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		21
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	THRIFTY OIL CO	
RP Address:	1000 LAKEWOOD BLVD, DOWNEY CA 90240	
Program:	LUST	
Lat/Long:	34.040534 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	09/09/96 - SITE ASSESSMENT & CLOSURE REQ.	

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-10934

21
NE
1/4-1/2
0.390 mi.
2060 ft.

LARRY'S SERVICE (FORMER)
4100 FLORAL DR
LOS ANGELES, CA 90063

LUST
HIST CORTESE

S102523307
N/A

Relative:
Lower

Actual:
310 ft.

LUST:

Region:	STATE
Global Id:	T0603705281
Latitude:	34.044139
Longitude:	-118.1779827
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/25/1999
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	Not reported
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-16351
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Aviation
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603705281
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Status History:

Global Id:	T0603705281
Status:	Completed - Case Closed
Status Date:	05/25/1999
Global Id:	T0603705281
Status:	Open - Case Begin Date
Status Date:	12/13/1996
Global Id:	T0603705281
Status:	Open - Site Assessment
Status Date:	01/15/1997
Global Id:	T0603705281
Status:	Open - Site Assessment
Status Date:	02/19/1999

Regulatory Activities:

Global Id:	T0603705281
Action Type:	Other
Date:	12/13/1996
Action:	Leak Discovery

LARRY'S SERVICE (FORMER) (Continued) **S102523307**

Global Id: T0603705281
Action Type: Other
Date: 12/13/1996
Action: Leak Stopped

Global Id: T0603705281
Action Type: Other
Date: 02/27/1997
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-16351
Status: Case Closed
Substance: 1
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Excavate and Dispose
Global ID: T0603705281
W Global ID: Not reported
Staff: JT
Local Agency: 19000
Cross Street: EASTERN AVE
Enforcement Type: Not reported
Date Leak Discovered: 12/13/1996
Date Leak First Reported: 2/27/1997
Date Leak Record Entered: 3/24/1997
Date Confirmation Began: Not reported
Date Leak Stopped: 12/13/1996
Date Case Last Changed on Database: 4/9/1999
Date the Case was Closed: 5/25/1999
How Leak Discovered: Tank Closure
How Leak Stopped: Not reported
Cause of Leak: Corrosion
Leak Source: Tank
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 4213.919666933800519206534728 7
Source of Cleanup Funding: Tank
Preliminary Site Assessment Workplan Submitted: 1/15/1997
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 2/19/1999
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: 3.7
Significant Interim Remedial Action Taken: Unknown
GW Qualifier: Not reported
Soil Qualifier: Not reported

LARRY'S SERVICE (FORMER) (Continued) **S102523307**

Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	BLANK RP
RP Address:	2756 FOLSOM ST., LOS ANGELES CA 90033-3126
Program:	LUST
Lat/Long:	34.0440088 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	LOP/LOW - MINOR OR NO POTENTIAL WATER RESOURCE IMPACT
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	TANKS REMOVED IN DEC. 96. NEED TO CONDUCT PRELIM SITE ASSMT.; 09/30/98 - WORK PLAN, SOIL INVESTIGATION; 01/05/99 - REVISED WP, SOIL INVESTIGATION; 4/9/99 INVESTIGATION OF SUBSURFACE SOILS

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-16351

C22 **TEXACO SERVICE STATION FORMER** **LUST** **S102430635**
SSW **3875 003RD ST E** **HIST CORTESE** **N/A**
1/4-1/2 **CITY TERRACE, CA 90063**
0.430 mi.
2273 ft. **Site 1 of 5 in cluster C**

Relative:
Lower

Actual:
301 ft.

LUST:

Region:	STATE
Global Id:	T0603704827
Latitude:	34.0334213
Longitude:	-118.184076
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/23/1997
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-09533
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704827
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

TEXACO SERVICE STATION FORMER (Continued) **S102430635**

Global Id: T0603704827
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603704827
Status: Completed - Case Closed
Status Date: 04/23/1997

Global Id: T0603704827
Status: Open - Case Begin Date
Status Date: 09/26/1994

Global Id: T0603704827
Status: Open - Site Assessment
Status Date: 09/26/1994

Global Id: T0603704827
Status: Open - Site Assessment
Status Date: 08/16/1996

Regulatory Activities:
Global Id: T0603704827
Action Type: Other
Date: 09/26/1994
Action: Leak Discovery

Global Id: T0603704827
Action Type: Other
Date: 11/21/1994
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: R-09533
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: Not reported
Global ID: T0603704827
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: HERBERT ST
Enforcement Type: Not reported
Date Leak Discovered: 9/26/1994

TEXACO SERVICE STATION FORMER (Continued) **S102430635**

Date Leak First Reported: 11/21/1994
Date Leak Record Entered: 11/6/1995
Date Confirmation Began: 9/26/1994
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 10/30/1995
Date the Case was Closed: 4/23/1997
How Leak Discovered: Subsurface Monitoring
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: ARTURO RUIZ OLD CASE #5933
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 226.71421316522196609716289635
Source of Cleanup Funding: UNK
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: 8/16/1996
Pollution Characterization Began: Not reported
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: PAUL SAITO
RP Address: 3660 ARLINGTON AVE., RIVERSIDE CA 92506
Program: LUST
Lat/Long: 34.0334213 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: NEW LEAK REPORTED 09/25/95 NEW LEAK REPORTED 02/14/97

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: R-09533

23 ALLIANCE FOR COLLEGE READY PUBLIC SCHOOLS **ENVIROSTOR S118757248**
SW 3640-3650 EAST 1ST STREET **SCH N/A**
1/4-1/2 LOS ANGELES, CA 90063
0.431 mi.
2277 ft.

Relative:
Higher

Actual:
321 ft.

ENVIROSTOR:

Facility ID:	60001618
Status:	No Action Required
Status Date:	04/14/2015
Site Code:	304638
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	0.64
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Johnson Abraham
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	51
Senate:	24
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	34.03565
Longitude:	-118.1877
APN:	5174023032, 5234004036
Past Use:	RESIDENTIAL AREA, RETAIL
Potential COC:	Asbestos Containing Materials (ACM DDD DDE DDT Lead
Confirmed COC:	30006-NO 30007-NO 30008-NO 30013-NO 40001-NO
Potential Description:	SOIL
Alias Name:	5174023032
Alias Type:	APN
Alias Name:	5234004036
Alias Type:	APN
Alias Name:	304638
Alias Type:	Project Code (Site Code)
Alias Name:	60001618
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Inactive Status Letter
Completed Date:	11/07/2013
Comments:	Mailed the Inactive Status Letter.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	05/06/2015
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	02/09/2012
Comments:	Not reported

ALLIANCE FOR COLLEGE READY PUBLIC SCHOOLS (Continued) **S118757248**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1 Addendum
Completed Date:	04/14/2015
Comments:	DTSC concurred with the Addendum conclusion that "no further action" is needed at the Site.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	4.14 Request
Completed Date:	05/27/2014
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	60001618
Site Type:	School Investigation
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.64
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Johnson Abraham
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304638
Assembly:	51
Senate:	24
Special Program Status:	Not reported
Status:	No Action Required
Status Date:	04/14/2015
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	34.03565
Longitude:	-118.1877
APN:	5174023032, 5234004036
Past Use:	RESIDENTIAL AREA, RETAIL
Potential COC:	Asbestos Containing Materials (ACM, DDD, DDE, DDT, Lead
Confirmed COC:	30006-NO, 30007-NO, 30008-NO, 30013-NO, 40001-NO
Potential Description:	SOIL
Alias Name:	5174023032
Alias Type:	APN
Alias Name:	5234004036
Alias Type:	APN
Alias Name:	304638

ALLIANCE FOR COLLEGE READY PUBLIC SCHOOLS (Continued) **S118757248**

Alias Type: Project Code (Site Code)
Alias Name: 60001618
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Inactive Status Letter
Completed Date: 11/07/2013
Comments: Mailed the Inactive Status Letter.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 05/06/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 02/09/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1 Addendum
Completed Date: 04/14/2015
Comments: DTSC concurred with the Addendum conclusion that "no further action" is needed at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.14 Request
Completed Date: 05/27/2014
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

C24 **SHELL SERVICE STATION (FORMER)** **LUST** **S105693899**
SSW **3853 3RD ST E.** **N/A**
1/4-1/2 **LOS ANGELES, CA 90063**
0.432 mi.
2280 ft. **Site 2 of 5 in cluster C**

Relative:
Lower

Actual:
304 ft.

LUST:
Region: STATE
Global Id: T0603713719
Latitude: 34.0337
Longitude: -118.184273
Case Type: LUST Cleanup Site

SHELL SERVICE STATION (FORMER) (Continued) **S105693899**

Status:	Completed - Case Closed
Status Date:	09/28/2012
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	MT
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-06358A
LOC Case Number:	006142-035762
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603713719
Contact Type:	Local Agency Caseworker
Contact Name:	CARL SJOBERG
Organization Name:	LOS ANGELES COUNTY
Address:	900 SOUTH FREMONT AVENUE
City:	ALHAMBRAD
Email:	Not reported
Phone Number:	6264585100

Global Id:	T0603713719
Contact Type:	Regional Board Caseworker
Contact Name:	MARYAM TAIDY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	LOS ANGELES
Email:	mtaidy@waterboards.ca.gov
Phone Number:	2135766741

Status History:

Global Id:	T0603713719
Status:	Completed - Case Closed
Status Date:	09/28/2012

Global Id:	T0603713719
Status:	Open - Case Begin Date
Status Date:	05/01/2002

Global Id:	T0603713719
Status:	Open - Remediation
Status Date:	05/28/2004

Global Id:	T0603713719
Status:	Open - Remediation
Status Date:	02/15/2006

Global Id:	T0603713719
Status:	Open - Remediation
Status Date:	03/03/2006

Global Id:	T0603713719
Status:	Open - Remediation
Status Date:	04/10/2006

SHELL SERVICE STATION (FORMER) (Continued) **S105693899**

Global Id: T0603713719
Status: Open - Site Assessment
Status Date: 06/12/2002

Global Id: T0603713719
Status: Open - Site Assessment
Status Date: 03/30/2004

Global Id: T0603713719
Status: Open - Site Assessment
Status Date: 06/01/2004

Regulatory Activities:
Global Id: T0603713719
Action Type: ENFORCEMENT
Date: 08/30/2012
Action: Notification - Preclosure

Global Id: T0603713719
Action Type: RESPONSE
Date: 04/15/2006
Action: Remedial Progress Report

Global Id: T0603713719
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603713719
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 04/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603713719
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 10/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603713719
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

SHELL SERVICE STATION (FORMER) (Continued) **S105693899**

Global Id: T0603713719
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603713719
Action Type: RESPONSE
Date: 02/28/2011
Action: Other Workplan

Global Id: T0603713719
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: ENFORCEMENT
Date: 09/28/2012
Action: Closure/No Further Action Letter

Global Id: T0603713719
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603713719
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 04/15/2006
Action: Soil and Water Investigation Report

Global Id: T0603713719
Action Type: RESPONSE

SHELL SERVICE STATION (FORMER) (Continued) **S105693899**

Date: 04/15/2006
Action: Other Report / Document

Global Id: T0603713719
Action Type: RESPONSE
Date: 09/16/2011
Action: Soil and Water Investigation Workplan

Global Id: T0603713719
Action Type: RESPONSE
Date: 02/15/2006
Action: CAP/RAP - Final Remediation / Design Plan

Global Id: T0603713719
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603713719
Action Type: ENFORCEMENT
Date: 04/16/2003
Action: Technical Correspondence / Assistance / Other

Global Id: T0603713719
Action Type: ENFORCEMENT
Date: 03/29/2011
Action: Staff Letter

Global Id: T0603713719
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603713719
Action Type: RESPONSE
Date: 10/07/2002
Action: Other Report / Document

Global Id: T0603713719
Action Type: RESPONSE
Date: 07/15/2012
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: ENFORCEMENT
Date: 06/07/2005
Action: Staff Letter

SHELL SERVICE STATION (FORMER) (Continued) **S105693899**

Global Id: T0603713719
Action Type: ENFORCEMENT
Date: 12/15/2005
Action: Staff Letter

Global Id: T0603713719
Action Type: Other
Date: 06/10/2002
Action: Leak Reported

Global Id: T0603713719
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 02/15/2006
Action: Interim Remedial Action Report

Global Id: T0603713719
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 10/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603713719
Action Type: RESPONSE
Date: 04/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603713719
Action Type: ENFORCEMENT
Date: 03/30/2004
Action: Staff Letter

Global Id: T0603713719
Action Type: ENFORCEMENT
Date: 09/06/2002
Action: Staff Letter

Global Id: T0603713719
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE

SHELL SERVICE STATION (FORMER) (Continued) **S105693899**

Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 04/30/2004
Action: Soil and Water Investigation Workplan

Global Id: T0603713719
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 04/15/2006
Action: Soil and Water Investigation Report

Global Id: T0603713719
Action Type: RESPONSE
Date: 12/18/2012
Action: Well Destruction Report

Global Id: T0603713719
Action Type: ENFORCEMENT
Date: 03/03/2006
Action: Staff Letter

Global Id: T0603713719
Action Type: RESPONSE
Date: 10/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603713719
Action Type: Other
Date: 05/01/2002
Action: Leak Discovery

Global Id: T0603713719
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

SHELL SERVICE STATION (FORMER) (Continued) **S105693899**

Global Id: T0603713719
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603713719
Action Type: RESPONSE
Date: 04/30/2004
Action: Interim Remedial Action Plan

Global Id: T0603713719
Action Type: REMEDIATION
Date: 05/15/2002
Action: Excavation

Global Id: T0603713719
Action Type: REMEDIATION
Date: 08/15/2007
Action: Soil Vapor Extraction (SVE)

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-06358A
Status: Pollution Characterization
Substance: Hydrocarbons
Substance Quantity: Not reported
Local Case No: 006142-035762
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603713719
W Global ID: Not reported
Staff: CEC
Local Agency: 19000
Cross Street: GAGE AVE.
Enforcement Type: SEL
Date Leak Discovered: 5/1/2002
Date Leak First Reported: 6/10/2002
Date Leak Record Entered: Not reported
Date Confirmation Began: 6/12/2002
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 8/28/2002
Date the Case was Closed: Not reported
How Leak Discovered: OM
How Leak Stopped: Not reported

SHELL SERVICE STATION (FORMER) (Continued) **S105693899**

Cause of Leak:	UNK
Leak Source:	UNK
Operator:	Not reported
Water System:	Not reported
Well Name:	Not reported
Approx. Dist To Production Well (ft):	Not reported
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	3/30/2004
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:	10/3/2001
Hist Max MTBE Conc in Groundwater:	14000
Hist Max MTBE Conc in Soil:	150000
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	=
Soil Qualifier:	=
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	JOE LENTINI
RP Address:	911 S. PRIMROSE AVENUE, SUITE K
Program:	LUST
Lat/Long:	0 / 0
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

C25 **SHELL #204-4534-6008** **LUST** **S101297404**
SSW **3853 003RD ST E** **HIST CORTESE** **N/A**
1/4-1/2 **LOS ANGELES, CA 90063**
0.432 mi.
2280 ft. **Site 3 of 5 in cluster C**

Relative:
Lower

Actual:
304 ft.

LUST:

Region:	STATE
Global Id:	T0603703201
Latitude:	34.0333753
Longitude:	-118.184622
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	08/30/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	I-06358
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

SHELL #204-4534-6008 (Continued) **S101297404**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603703201
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603703201
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603703201
Status:	Completed - Case Closed
Status Date:	08/30/1996

Global Id:	T0603703201
Status:	Open - Case Begin Date
Status Date:	11/13/1990

Global Id:	T0603703201
Status:	Open - Remediation
Status Date:	06/17/1993

Global Id:	T0603703201
Status:	Open - Site Assessment
Status Date:	12/06/1990

Global Id:	T0603703201
Status:	Open - Site Assessment
Status Date:	07/30/1991

Regulatory Activities:

Global Id:	T0603703201
Action Type:	Other
Date:	11/13/1990
Action:	Leak Discovery

Global Id:	T0603703201
Action Type:	Other
Date:	11/13/1990
Action:	Leak Stopped

Global Id:	T0603703201
Action Type:	Other
Date:	12/06/1990

SHELL #204-4534-6008 (Continued) **S101297404**

Action: Leak Reported

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	I-06358	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		VE
Global ID:	T0603703201	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	GAGE AVE	
Enforcement Type:	Not reported	
Date Leak Discovered:	11/13/1990	
Date Leak First Reported:		12/6/1990
Date Leak Record Entered:	1/15/1991	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	11/13/1990	
Date Case Last Changed on Database:		12/12/1996
Date the Case was Closed:		8/30/1996
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	SERRANO, VICTOR	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		389.639331166480044245851094 38
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		12/6/1990
Preliminary Site Assessment Began:		7/30/1991
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		6/17/1993
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		6/6/2003
Hist Max MTBE Conc in Groundwater:		1000
Hist Max MTBE Conc in Soil:		96000
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	=	
Soil Qualifier:	=	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	SHELL OIL CO.	
RP Address:	PO BOX 25370, SANTA ANA, CA 92799	
Program:	LUST	
Lat/Long:	34.0333753 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	

SHELL #204-4534-6008 (Continued) **S101297404**

Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	06/19/89 A LEAK REPORT WAS FILED WELL ABANDONMENT REPORT	12/12/96

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-06358

D26 **HERTZ PROPERTY** **LUST** **S106116221**
SSW **3845 3RD ST. E.** **N/A**
1/4-1/2 **LOS ANGELES, CA 90063**
0.439 mi.
2316 ft. **Site 1 of 2 in cluster D**

Relative:
Lower

Actual:
307 ft.

LUST:

Region:	STATE
Global Id:	T0603747349
Latitude:	34.033688
Longitude:	-118.184954
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/25/2004
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	CET
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	900360270
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	MTBE / TBA / Other Fuel Oxygenates
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603747349
Contact Type:	Regional Board Caseworker
Contact Name:	CHANDRA TYLER
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	Not reported
City:	R4 UNKNOWN
Email:	cetyler@waterboards.ca.gov
Phone Number:	Not reported

Global Id:	T0603747349
Contact Type:	Local Agency Caseworker
Contact Name:	TIM SMITH
Organization Name:	LOS ANGELES COUNTY
Address:	900 S. FREMONT AVE.
City:	ALHAMBRA
Email:	tsmith@dpw.lacounty.gov
Phone Number:	Not reported

HERTZ PROPERTY (Continued) **S106116221**

Status History:

Global Id:	T0603747349
Status:	Completed - Case Closed
Status Date:	06/25/2004
Global Id:	T0603747349
Status:	Open - Case Begin Date
Status Date:	04/02/2003
Global Id:	T0603747349
Status:	Open - Site Assessment
Status Date:	05/05/2003

Regulatory Activities:

Global Id:	T0603747349
Action Type:	ENFORCEMENT
Date:	06/25/2004
Action:	Notification - Preclosure
Global Id:	T0603747349
Action Type:	ENFORCEMENT
Date:	06/25/2004
Action:	Closure/No Further Action Letter
Global Id:	T0603747349
Action Type:	ENFORCEMENT
Date:	03/30/2004
Action:	Site Visit / Inspection / Sampling
Global Id:	T0603747349
Action Type:	ENFORCEMENT
Date:	09/15/2003
Action:	Staff Letter
Global Id:	T0603747349
Action Type:	Other
Date:	07/18/2003
Action:	Leak Reported
Global Id:	T0603747349
Action Type:	Other
Date:	04/02/2003
Action:	Leak Discovery
Global Id:	T0603747349
Action Type:	RESPONSE
Date:	10/15/2003
Action:	Other Report / Document
Global Id:	T0603747349
Action Type:	REMEDIATION
Date:	07/18/2003
Action:	Not reported

HERTZ PROPERTY (Continued) **S106116221**

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	900360270	
Status:	Case Closed	
Substance:	MTBE	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603747349	
W Global ID:	Not reported	
Staff:	CEC	
Local Agency:	19000	
Cross Street:	Not reported	
Enforcement Type:	PCN	
Date Leak Discovered:	4/2/2003	
Date Leak First Reported:		7/18/2003
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		Not reported
Date the Case was Closed:		6/25/2004
How Leak Discovered:	Subsurface Monitoring	
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):		Not reported
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		5/5/2003
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:		4/2/2003
Hist Max MTBE Conc in Groundwater:		49
Hist Max MTBE Conc in Soil:		0
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	=	
Soil Qualifier:	ND	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	MARTIN HERTZ	
RP Address:	P.O. BOX 13158	
Program:	LUST	
Lat/Long:	0 / 0	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	

HERTZ PROPERTY (Continued) **S106116221**

Assigned Name: Not reported
Summary: Not reported

C27 **UNOCAL #6010** **HIST CORTESE** **S105024725**
SSW **3860 003RD** **N/A**
1/4-1/2 **LOS ANGELES, CA 90063**
0.443 mi.
2340 ft. **Site 4 of 5 in cluster C**

Relative:
Lower

Actual:
301 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: I-03006

C28 **UNOCAL #6010** **LUST** **S101297405**
SSW **3860 003RD ST E** **N/A**
1/4-1/2 **CITY TERRACE, CA 90063**
0.458 mi.
2416 ft. **Site 5 of 5 in cluster C**

Relative:
Lower

Actual:
303 ft.

LUST:
Region: STATE
Global Id: T0603702881
Latitude: 34.0330653
Longitude: -118.184281
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 03/31/1994
Lead Agency: LOS ANGELES COUNTY
Case Worker: JOA
Local Agency: LOS ANGELES COUNTY
RB Case Number: I-03006
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603702881
Contact Type: Local Agency Caseworker
Contact Name: JOHN AWUJO
Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603702881
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

UNOCAL #6010 (Continued) **S101297405**

Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603702881
Status: Completed - Case Closed
Status Date: 03/31/1994

Global Id: T0603702881
Status: Open - Case Begin Date
Status Date: 02/21/1991

Global Id: T0603702881
Status: Open - Site Assessment
Status Date: 06/26/1991

Regulatory Activities:
Global Id: T0603702881
Action Type: Other
Date: 02/21/1991
Action: Leak Discovery

Global Id: T0603702881
Action Type: Other
Date: 02/21/1991
Action: Leak Stopped

Global Id: T0603702881
Action Type: Other
Date: 06/26/1991
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-03006
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Soil
Abatement Method Used at the Site: OT
Global ID: T0603702881
W Global ID: Not reported
Staff: UNK
Local Agency: 19000
Cross Street: GAGE
Enforcement Type: Not reported
Date Leak Discovered: 2/21/1991
Date Leak First Reported: 6/26/1991
Date Leak Record Entered: 7/24/1991
Date Confirmation Began: Not reported
Date Leak Stopped: 2/21/1991
Date Case Last Changed on Database: 8/26/1993

UNOCAL #6010 (Continued) **S101297405**

Date the Case was Closed:		3/31/1994
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	DASLER, D.W.	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		302.50485890321574350068215091
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		6/26/1991
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	UNOCAL CORP.	
RP Address:	17700 CASTLETON ST, SUITE 500, CITY OF INDUSTRY, CA 91748	
Program:	LUST	
Lat/Long:	34.0330653 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	WILL BE BASED ON INVESTIGATION FINDINGS	

D29 **ARCO #5027** **HIST CORTESE** **S105024724**
SSW **3834 003RD** **N/A**
1/4-1/2 **LOS ANGELES, CA 90063**
0.460 mi.
2429 ft. **Site 2 of 2 in cluster D**

Relative:
Lower

Actual:
307 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	R-06382

E30 **RAD ONE OIL INC** **LUST** **U003062115**
SSW **3834 E 3RD ST** **LOS ANGELES CO. HMS** **N/A**
1/4-1/2 **LOS ANGELES, CA 90063**
0.481 mi.
2542 ft. **Site 1 of 2 in cluster E**

Relative:
Lower

Actual:
306 ft.

LUST:

Region:	STATE
Global Id:	T0603704731
Latitude:	34.0331373
Longitude:	-118.185125
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/26/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES COUNTY
RB Case Number:	R-06382
LOC Case Number:	6166-6382
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603704731
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

Global Id:	T0603704731
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603704731
Status:	Completed - Case Closed
Status Date:	07/26/1996

Global Id:	T0603704731
Status:	Open - Case Begin Date
Status Date:	01/09/1987

Regulatory Activities:

Global Id:	T0603704731
Action Type:	Other
Date:	01/09/1987
Action:	Leak Reported

RAD ONE OIL INC (Continued) **U003062115**

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-06382	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603704731	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	GAGE AVE	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		1/9/1987
Date Leak Record Entered:	6/14/1988	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		10/31/1996
Date the Case was Closed:		7/26/1996
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		545.942416250424417377512981 39
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	ARCO PRODUCTS CO	
RP Address:	4 CENTERPOINTE DR, SUITE 300, LA PALMA CA 90623-1066	
Program:	LUST	
Lat/Long:	34.0331373 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	

RAD ONE OIL INC (Continued) **U003062115**

Assigned Name:	Not reported	
Summary:	OLD CASE #900630034 3RD QUARTERLY REPORT	10/31/96 -
Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-06382A	
Status:	Leak being confirmed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603792897	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	GAGE	
Enforcement Type:	Not reported	
Date Leak Discovered:	2/8/2000	
Date Leak First Reported:		5/4/2000
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	5/4/2000	
Date Leak Stopped:	2/8/2000	
Date Case Last Changed on Database:		5/4/2000
Date the Case was Closed:		Not reported
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Piping	
Operator:	PRESTIGE	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		4964.3538246022076282471809737
Source of Cleanup Funding:		Piping
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	ARCO	
RP Address:	4 CENTREPOINTE DR., LA PALMA, CA 90623	
Program:	LUST	
Lat/Long:	34.016921 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	

RAD ONE OIL INC (Continued) **U003062115**

Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

LOS ANGELES CO. HMS:
Region: LA
Permit Category: T
Facility Id: 006166-055037
Facility Type: 0
Facility Status: Permit
Area: 39
Permit Number: 000658636
Permit Status: Permit

Region: LA
Permit Category: S
Facility Id: 006166-055818
Facility Type: S5
Facility Status: Permit
Area: 39
Permit Number: 000685667
Permit Status: Permit

Region: LA
Permit Category: I
Facility Id: 006166-I06382
Facility Type: 01
Facility Status: Closed
Area: 39
Permit Number: 00008987C
Permit Status: Closed

E31 **ARCO # 5027** **LUST** **S109348446**
SSW **3834 3RD. ST. EAST** **N/A**
1/4-1/2 **LOS ANGELES, CA 90063**
0.481 mi.
2542 ft. **Site 2 of 2 in cluster E**

Relative:
Lower

Actual:
306 ft.

LUST:
Region: STATE
Global Id: T0603792897
Latitude: 34.0329411263761
Longitude: -118.185135126114
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 08/26/2010
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: MT
Local Agency: LOS ANGELES COUNTY
RB Case Number: R-06382A
LOC Case Number: 6166-6382
File Location: Regional Board
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

ARCO # 5027 (Continued) **S109348446**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603792897
Contact Type:	Local Agency Caseworker
Contact Name:	KATTYA BATRES RINZE
Organization Name:	LOS ANGELES COUNTY
Address:	900 SOUTH FREMONT AVE
City:	ALHAMBRA
Email:	gbatres@dpw.lacounty.gov
Phone Number:	Not reported

Global Id:	T0603792897
Contact Type:	Regional Board Caseworker
Contact Name:	MARYAM TAIDY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	LOS ANGELES
Email:	mtaidy@waterboards.ca.gov
Phone Number:	2135766741

Status History:

Global Id:	T0603792897
Status:	Completed - Case Closed
Status Date:	08/26/2010

Global Id:	T0603792897
Status:	Open - Case Begin Date
Status Date:	02/08/2000

Global Id:	T0603792897
Status:	Open - Referred
Status Date:	01/10/2009

Global Id:	T0603792897
Status:	Open - Site Assessment
Status Date:	05/04/2000

Global Id:	T0603792897
Status:	Open - Site Assessment
Status Date:	12/23/2008

Global Id:	T0603792897
Status:	Open - Site Assessment
Status Date:	03/24/2009

Regulatory Activities:

Global Id:	T0603792897
Action Type:	ENFORCEMENT
Date:	06/22/2010
Action:	Site Visit / Inspection / Sampling

Global Id:	T0603792897
Action Type:	RESPONSE
Date:	09/14/2009
Action:	Soil and Water Investigation Report

ARCO # 5027 (Continued) **S109348446**

Global Id: T0603792897
Action Type: RESPONSE
Date: 04/12/2010
Action: Request for Closure

Global Id: T0603792897
Action Type: RESPONSE
Date: 04/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603792897
Action Type: RESPONSE
Date: 03/19/2009
Action: Other Report / Document

Global Id: T0603792897
Action Type: ENFORCEMENT
Date: 08/26/2010
Action: Closure/No Further Action Letter

Global Id: T0603792897
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603792897
Action Type: RESPONSE
Date: 04/15/2009
Action: Other Report / Document

Global Id: T0603792897
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603792897
Action Type: ENFORCEMENT
Date: 02/19/2009
Action: Staff Letter

Global Id: T0603792897
Action Type: RESPONSE
Date: 04/24/2009
Action: Soil and Water Investigation Workplan

Global Id: T0603792897
Action Type: Other
Date: 02/08/2000
Action: Leak Stopped

Global Id: T0603792897
Action Type: ENFORCEMENT
Date: 03/24/2009
Action: Staff Letter

Global Id: T0603792897
Action Type: ENFORCEMENT

ARCO # 5027 (Continued) **S109348446**

Date:	12/23/2008
Action:	Referral to Regional Board
Global Id:	T0603792897
Action Type:	RESPONSE
Date:	04/20/2009
Action:	Soil and Water Investigation Report
Global Id:	T0603792897
Action Type:	RESPONSE
Date:	10/15/2009
Action:	Monitoring Report - Semi-Annually
Global Id:	T0603792897
Action Type:	ENFORCEMENT
Date:	07/30/2010
Action:	Notification - Preclosure
Global Id:	T0603792897
Action Type:	Other
Date:	05/04/2000
Action:	Leak Reported
Global Id:	T0603792897
Action Type:	Other
Date:	02/08/2000
Action:	Leak Discovery
Global Id:	T0603792897
Action Type:	ENFORCEMENT
Date:	06/12/2009
Action:	Staff Letter

32
North
1/4-1/2
0.493 mi.
2605 ft.

CENTRAL REGION ELEMENTARY SCHOOL NO. 19
831 NORTH BONNIE BEACH PLACE
LOS ANGELES, CA 90063

ENVIROSTOR SCH **S118757054 N/A**

Relative:
Higher

Actual:
436 ft.

ENVIROSTOR:

Facility ID:	60000066
Status:	No Action Required
Status Date:	05/25/2007
Site Code:	304466
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	3.18
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	51
Senate:	24
Special Program:	Not reported
Restricted Use:	NO

CENTRAL REGION ELEMENTARY SCHOOL NO. 19 (Continued) **S118757054**

Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.04656
Longitude: -118.1817
APN: 5227025903
Past Use: * EDUCATIONAL SERVICES
Potential COC: Lead Polychlorinated biphenyls (PCBs
Confirmed COC: 30018-NO 30013-NO
Potential Description: SOIL
Alias Name: LAUSD-PRPSD CENTRAL REGION ELEM SCL #19
Alias Type: Alternate Name
Alias Name: 5227025903
Alias Type: APN
Alias Name: 304466
Alias Type: Project Code (Site Code)
Alias Name: 60000066
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 05/25/2007
Comments: Issued CRU Memo

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/29/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1 Addendum
Completed Date: 05/25/2007
Comments: Approved the Phase I Addendum Report.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 03/03/2007
Comments: No oversight.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 60000066
Site Type: School Investigation

CENTRAL REGION ELEMENTARY SCHOOL NO. 19 (Continued) **S118757054**

Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	3.18
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304466
Assembly:	51
Senate:	24
Special Program Status:	Not reported
Status:	No Action Required
Status Date:	05/25/2007
Restricted Use:	NO
Funding:	School District
Latitude:	34.04656
Longitude:	-118.1817
APN:	5227025903
Past Use:	* EDUCATIONAL SERVICES
Potential COC:	Lead, Polychlorinated biphenyls (PCBs
Confirmed COC:	30018-NO, 30013-NO
Potential Description:	SOIL
Alias Name:	LAUSD-PRPSD CENTRAL REGION ELEM SCL #19
Alias Type:	Alternate Name
Alias Name:	5227025903
Alias Type:	APN
Alias Name:	304466
Alias Type:	Project Code (Site Code)
Alias Name:	60000066
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	05/25/2007
Comments:	Issued CRU Memo
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	10/29/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1 Addendum
Completed Date:	05/25/2007
Comments:	Approved the Phase I Addendum Report.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	03/03/2007
Comments:	No oversight.

CENTRAL REGION ELEMENTARY SCHOOL NO. 19 (Continued) **S118757054**

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

33
East
1/2-1
0.527 mi.
2782 ft.

A & N ENGINE REBUILDERS **ENVIROSTOR** **S118757215**
4330 EAST CESAR CHAVEZ AVE **N/A**
LOS ANGELES, CA 90022

Relative:
Higher

Actual:
314 ft.

ENVIROSTOR:

Facility ID:	60001208
Status:	No Action Required
Status Date:	06/30/2011
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.2
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Assembly:	46
Senate:	24
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Orphan Funds
Latitude:	34.04028
Longitude:	-118.1725
APN:	NONE SPECIFIED
Past Use:	METAL PLATING - CHROME
Potential COC:	Total Chromium (1:6 ratio Cr VI:Cr III
Confirmed COC:	Total Chromium (1:6 ratio Cr VI:Cr III
Potential Description:	SOIL
Alias Name:	60001208
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	06/30/2011
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract
Completed Date:	05/18/2010
Comments:	Not reported

A & N ENGINE REBUILDERS (Continued) **S118757215**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Technical Report
Completed Date:	03/30/2010
Comments:	DTSC conducted screening for 36 properties to determine if there is a historical or current release of hazardous substances.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Workplan
Completed Date:	01/13/2011
Comments:	Workplan for soil and soil vapor sampling approved for 15 sites within the city of Vernon, Huntington Park, Maywood and Commerce.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	06/30/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	11/23/2010
Comments:	Site visits conducted with Tetratech to locate and mark sampling points.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	12/02/2010
Comments:	Site visits conducted with Tetratech to locate and mark sampling points.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	12/23/2010
Comments:	SIte visits to locate sampling points and perform geophysical surveys. Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fieldwork
Completed Date:	01/05/2011
Comments:	Site visit to locate sampling areas and conduct geophysical survey.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	05/20/2010
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	07/23/2010

A & N ENGINE REBUILDERS (Continued) **S118757215**

Comments: Completed inspections.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 11/04/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 10/05/2010
Comments: Access Agreements obtained for sampling activities for serveral sites.
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

F34 **MANHOLE** **Notify 65** **S100178454**
NNE **952 MILLER AVE.** **N/A**
1/2-1 **EAST LOS ANGELES, CA 90063**
0.612 mi.
3233 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
370 ft.

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

F35 **MANHOLE** **Notify 65** **S100178455**
NNE **952 MILLER AVENUE** **N/A**
1/2-1 **EAST LOS ANGELES, CA 90063**
0.612 mi.
3233 ft. **Site 2 of 2 in cluster F**

Relative:
Higher

Actual:
370 ft.

NOTIFY 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported

G36 **NEW RAMONA OPPORTUNITY HIGH SCHOOL (LAUSD)** **ENVIROSTOR** **S108195944**
WSW **208-234 SOUTH ALMA AVENUE/3633-3643 EAST THIRD STREET** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90063**
0.637 mi.
3366 ft. **Site 1 of 2 in cluster G**

Relative:
Higher

Actual:
325 ft.

ENVIROSTOR:

Facility ID:	60000468
Status:	Certified
Status Date:	03/30/2007
Site Code:	304548
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	1
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	62
Senate:	35
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	33.9719
Longitude:	-118.3608
APN:	5232-019-024, 5232-019-027, 5232-019-028, 5232-019-029, 5232-019-030, 5232-019-031, 5232-019-032, 5232-019-033, 5232-019-042
Past Use:	RESIDENTIAL AREA
Potential COC:	Dieldrin
Confirmed COC:	Dieldrin
Potential Description:	SOIL
Alias Name:	5232-019-024
Alias Type:	APN
Alias Name:	5232-019-027
Alias Type:	APN
Alias Name:	5232-019-028
Alias Type:	APN
Alias Name:	5232-019-029
Alias Type:	APN
Alias Name:	5232-019-030
Alias Type:	APN
Alias Name:	5232-019-031
Alias Type:	APN
Alias Name:	5232-019-032
Alias Type:	APN
Alias Name:	5232-019-033
Alias Type:	APN
Alias Name:	5232-019-042
Alias Type:	APN
Alias Name:	110033611777
Alias Type:	EPA (FRS #)
Alias Name:	304548
Alias Type:	Project Code (Site Code)
Alias Name:	60000468
Alias Type:	Envirostor ID Number

NEW RAMONA OPPORTUNITY HIGH SCHOOL (LAUSD) (Continued) **S108195944**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	11/09/2006
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/28/2006
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	02/09/2007
Comments:	Not reported

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	03/12/2007
Comments:	NFA.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	03/30/2007
Comments:	District to do land swap with MTA for relocation of school and MTA line.

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	03/30/2007
Comments:	Not reported

Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	60000468
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1
National Priorities List:	NO

NEW RAMONA OPPORTUNITY HIGH SCHOOL (LAUSD) (Continued) **S108195944**

Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Javier Hinojosa
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	304548
Assembly:	62
Senate:	35
Special Program Status:	Not reported
Status:	Certified
Status Date:	03/30/2007
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	33.9719
Longitude:	-118.3608
APN:	5232-019-024, 5232-019-027, 5232-019-028, 5232-019-029, 5232-019-030, 5232-019-031, 5232-019-032, 5232-019-033, 5232-019-042
Past Use:	RESIDENTIAL AREA
Potential COC:	Dieldrin
Confirmed COC:	Dieldrin
Potential Description:	SOIL
Alias Name:	5232-019-024
Alias Type:	APN
Alias Name:	5232-019-027
Alias Type:	APN
Alias Name:	5232-019-028
Alias Type:	APN
Alias Name:	5232-019-029
Alias Type:	APN
Alias Name:	5232-019-030
Alias Type:	APN
Alias Name:	5232-019-031
Alias Type:	APN
Alias Name:	5232-019-032
Alias Type:	APN
Alias Name:	5232-019-033
Alias Type:	APN
Alias Name:	5232-019-042
Alias Type:	APN
Alias Name:	110033611777
Alias Type:	EPA (FRS #)
Alias Name:	304548
Alias Type:	Project Code (Site Code)
Alias Name:	60000468
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	11/09/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	12/28/2006

NEW RAMONA OPPORTUNITY HIGH SCHOOL (LAUSD) (Continued) **S108195944**

Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Workplan
Completed Date:	02/09/2007
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	03/12/2007
Comments:	NFA.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	03/30/2007
Comments:	District to do land swap with MTA for relocation of school and MTA line.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	03/30/2007
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

G37 **NEW RAMONA OPPORTUNITY HIGH SCHOOL** **ENVIROSTOR** **S107736882**
WSW **231 SOUTH ALMA AVENUE** **SCH** **N/A**
1/2-1 **LOS ANGELES, CA 90063**
0.658 mi.
3475 ft. **Site 2 of 2 in cluster G**

Relative:
Higher

Actual:
323 ft.

ENVIROSTOR:

Facility ID:	60000067
Status:	Certified
Status Date:	08/25/2009
Site Code:	304465
Site Type:	School Cleanup
Site Type Detailed:	School
Acres:	1.8
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Ivy Osornio
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	53

NEW RAMONA OPPORTUNITY HIGH SCHOOL (Continued) **S107736882**

Senate: 24
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 34.03382
Longitude: -118.1917
APN: 5232-020-900, 5232-020-902, 5232-020-903, 5232-020-905
Past Use: SCHOOL - HIGH SCHOOL
Potential COC: Chlordane DDD DDE DDT Endrin Lead Toxaphene Dieldrin Heptachlor Heptachlor epoxide HCH (alpha HCH (beta HCH (gamma) Lindane HCH-technical Mirex
Confirmed COC: Chlordane 30006-NO 30007-NO 30008-NO 30010-NO Lead Dieldrin 30309-NO 30313-NO 30314-NO 30315-NO 30316-NO 30400-NO 30308-NO 30023-NO
Potential Description: SOIL
Alias Name: LAUSD-PRPSD NEW RAMONA OPPORTUNITY HS
Alias Type: Alternate Name
Alias Name: 5232-020-900
Alias Type: APN
Alias Name: 5232-020-902
Alias Type: APN
Alias Name: 5232-020-903
Alias Type: APN
Alias Name: 5232-020-905
Alias Type: APN
Alias Name: 110033611768
Alias Type: EPA (FRS #)
Alias Name: 304465
Alias Type: Project Code (Site Code)
Alias Name: 60000067
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 08/06/2009
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: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/13/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Partial Site Approval
Completed Date: 04/20/2009
Comments: DTSC approved a portion of the Site

Completed Area Name: PROJECT WIDE

NEW RAMONA OPPORTUNITY HIGH SCHOOL (Continued) **S107736882**

Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 08/10/2009
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: Phase 1
Completed Date: 02/16/2005
Comments: NA determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.14 Request
Completed Date: 05/24/2006
Comments: Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/04/2007
Comments: DTSC issued a Further Action determination based on a review of the PEA report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 04/28/2008
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: 01/14/2008
Comments: DTSC accepted the fact sheet

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 04/01/2008
Comments: DTSC approved the public notice

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 08/06/2009
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: CEQA - Notice of Exemption
Completed Date: 04/28/2008
Comments: NOE signed

Future Area Name: Not reported

NEW RAMONA OPPORTUNITY HIGH SCHOOL (Continued) **S107736882**

Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

SCH:

Facility ID:	60000067
Site Type:	School Cleanup
Site Type Detail:	School
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.8
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:	304465
Assembly:	53
Senate:	24
Special Program Status:	Not reported
Status:	Certified
Status Date:	08/25/2009
Restricted Use:	NO
Funding:	School District
Latitude:	34.03382
Longitude:	-118.1917
APN:	5232-020-900, 5232-020-902, 5232-020-903, 5232-020-905
Past Use:	SCHOOL - HIGH SCHOOL
Potential COC:	Chlordane, DDD, DDE, DDT, Endrin, Lead, Toxaphene, Dieldrin, Heptachlor, Heptachlor epoxide, HCH (alpha, HCH (beta, HCH (gamma) Lindane, HCH-technical, Mirex
Confirmed COC:	Chlordane, 30006-NO, 30007-NO, 30008-NO, 30010-NO, Lead, Dieldrin, 30309-NO, 30313-NO, 30314-NO, 30315-NO, 30316-NO, 30400-NO, 30308-NO, 30023-NO
Potential Description:	SOIL
Alias Name:	LAUSD-PRPSD NEW RAMONA OPPORTUNITY HS
Alias Type:	Alternate Name
Alias Name:	5232-020-900
Alias Type:	APN
Alias Name:	5232-020-902
Alias Type:	APN
Alias Name:	5232-020-903
Alias Type:	APN
Alias Name:	5232-020-905
Alias Type:	APN
Alias Name:	110033611768
Alias Type:	EPA (FRS #)
Alias Name:	304465
Alias Type:	Project Code (Site Code)
Alias Name:	60000067

NEW RAMONA OPPORTUNITY HIGH SCHOOL (Continued) **S107736882**

Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 08/06/2009
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: Environmental Oversight Agreement
Completed Date: 02/10/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 04/13/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Partial Site Approval
Completed Date: 04/20/2009
Comments: DTSC approved a portion of the Site

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 08/10/2009
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: Phase 1
Completed Date: 02/16/2005
Comments: NA determination

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: 4.14 Request
Completed Date: 05/24/2006
Comments: Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 12/04/2007
Comments: DTSC issued a Further Action determination based on a review of the PEA report

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 04/28/2008
Comments: DTSC approved the RAW for implementation

NEW RAMONA OPPORTUNITY HIGH SCHOOL (Continued) **S107736882**

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	01/14/2008
Comments:	DTSC accepted the fact sheet
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Public Notice
Completed Date:	04/01/2008
Comments:	DTSC approved the public notice
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Removal Action Completion Report
Completed Date:	08/06/2009
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:	CEQA - Notice of Exemption
Completed Date:	04/28/2008
Comments:	NOE signed
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

38
NNE
1/2-1
0.768 mi.
4054 ft.

SHERIFF BISCAILUZ CENTER **ENVIROSTOR** **S105024602**
1060 EASTERN **HIST CORTESE** **N/A**
LOS ANGELES, CA 90063 **NPDES**

Relative:
Higher

Actual:
395 ft.

ENVIROSTOR:

Facility ID:	19490178
Status:	Refer: Other Agency
Status Date:	12/08/1994
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Chatsworth
Assembly:	49
Senate:	22
Special Program:	* RCRA 3012 - Past Haz Waste Disp Inven Site

SHERIFF BISCAILUZ CENTER (Continued) **S105024602**

Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.04989
Longitude: -118.1683
APN: 5225019930
Past Use: NONE SPECIFIED
Potential COC: * OTHER ORGANIC SOLIDS * UNSPECIFIED AQUEOUS SOLUTION * UNSPECIFIED SOLVENT MIXTURES * OTHER INORGANIC SOLID WASTE * UNSPECIFIED ORGANIC LIQUID MIXTURE
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: BLANCHARD STREET DUMP
Alias Type: Alternate Name
Alias Name: 5225019930
Alias Type: APN
Alias Name: CAD980636252
Alias Type: EPA Identification Number
Alias Name: 110010477368
Alias Type: EPA (FRS #)
Alias Name: 19490178
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 09/29/1983
Comments: FACILITY IDENTIFIED ID FROM ERRIS

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 12/08/1994
Comments: CALSITES VALIDATION PROGRAM CONFIRMS NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 01/25/1984
Comments: SHERIFF CNTR OVERLIES A PORTION OF THE OLD BLANCHARD ST DUMP. PROXIMITY OF COGEN DUMP. BKK CORP OPER BOTH DUMPS. WASTE: MIXED WASTE, LIQ & SOLID. COMM LDFL(BLANCHARD). HISTORY OF FIRES, ODORS, SUBSIDENCE, METHANE GAS PRO, EROSION, PONDING & DRAINAGE PRO. FINAL STRATEGY RECOM - GROUND & WATER SAMPLING LA CO OF SANITATION PRELIM ASSESS DONE RCRA 3012

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

SHERIFF BISCAILUZ CENTER (Continued) **S105024602**

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	CALSI
Reg Id:	19490178

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	416283
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C361746
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	5/14/2014
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	8/17/2011
PROCESSED DATE:	8/22/2011
STATUS CODE NAME:	Terminated
STATUS DATE:	8/15/2014
PLACE SIZE:	7
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Waleed Jouzy
FACILITY CONTACT TITLE:	Project Manager
FACILITY CONTACT PHONE:	626-300-3289
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	wjouzy@dpw.lacounty.gov
OPERATOR NAME:	Los Angeles County Department of Public Works
OPERATOR ADDRESS:	900 South Fremont Ave
OPERATOR CITY:	Alhambra
OPERATOR STATE:	California
OPERATOR ZIP:	91803
OPERATOR CONTACT NAME:	Waleed Jouzy
OPERATOR CONTACT TITLE:	Project Manager
OPERATOR CONTACT PHONE:	626-300-3289
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	wjouzy@dpw.lacounty.gov
OPERATOR TYPE:	County Agency
DEVELOPER NAME:	Los Angeles County Department of Public Works
DEVELOPER ADDRESS:	900 South Fremont Ave
DEVELOPER CITY:	Alhambra
DEVELOPER STATE:	California
DEVELOPER ZIP:	91803
DEVELOPER CONTACT NAME:	Waleed Jouzy
DEVELOPER CONTACT TITLE:	Project Manager
CONSTYPE LINEAR UTILITY IND:	N

SHERIFF BISCAILUZ CENTER (Continued) **S105024602**

EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Y
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	N
RECEIVING WATER NAME:	Los Angeles River
CERTIFIER NAME:	Alvin Martins
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	17-AUG-11
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	0
Region:	4
Regulatory Measure Id:	416283
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19C361746
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/22/2011
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	05/14/2014
Discharge Name:	Los Angeles County Department of Public Works
Discharge Address:	900 South Fremont Ave
Discharge City:	Alhambra
Discharge State:	California
Discharge Zip:	91803
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported

SHERIFF BISCAILUZ CENTER (Continued) **S105024602**

OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	0
Region:	4
Regulatory Measure Id:	416436
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	4 19C361587
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported

SHERIFF BISCAILUZ CENTER (Continued) **S105024602**

Effective Date Of Regulatory Measure:	08/02/2011
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	09/18/2014
Discharge Name:	Los Angeles County Department of Public Works
Discharge Address:	900 South Fremont Ave
Discharge City:	Alhambra
Discharge State:	California
Discharge Zip:	91803
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported

SHERIFF BISCAILUZ CENTER (Continued) **S105024602**

RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	4
Regulatory Measure Id:	416436
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	4 19C361587
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	9/18/2014
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	7/28/2011
PROCESSED DATE:	8/2/2011
STATUS CODE NAME:	Terminated
STATUS DATE:	11/26/2014
PLACE SIZE:	11.04
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Jennifer Fang
FACILITY CONTACT TITLE:	Project Manager
FACILITY CONTACT PHONE:	626-300-3229
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	jfang@dpw.lacounty.gov
OPERATOR NAME:	Los Angeles County Department of Public Works
OPERATOR ADDRESS:	900 South Fremont Ave
OPERATOR CITY:	Alhambra
OPERATOR STATE:	California
OPERATOR ZIP:	91803
OPERATOR CONTACT NAME:	Jennifer Fang
OPERATOR CONTACT TITLE:	Project Manager
OPERATOR CONTACT PHONE:	626-300-3229
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	jfang@dpw.lacounty.gov
OPERATOR TYPE:	County Agency
DEVELOPER NAME:	Torres Construction Inc
DEVELOPER ADDRESS:	7330 North Figueroa Street
DEVELOPER CITY:	Los Angeles
DEVELOPER STATE:	California
DEVELOPER ZIP:	90041
DEVELOPER CONTACT NAME:	Robert Mooneyhan
DEVELOPER CONTACT TITLE:	Project Manager
CONSTYPE LINEAR UTILITY IND:	N

SHERIFF BISCAILUZ CENTER (Continued) **S105024602**

EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	N
CONSTYPE BELOW GROUND IND:	N
CONSTYPE CABLE LINE IND:	N
CONSTYPE COMM LINE IND:	N
CONSTYPE COMMERTIAL IND:	N
CONSTYPE ELECTRICAL LINE IND:	N
CONSTYPE GAS LINE IND:	N
CONSTYPE INDUSTRIAL IND:	N
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	N
CONSTYPE RECONS IND:	N
CONSTYPE RESIDENTIAL IND:	N
CONSTYPE TRANSPORT IND:	N
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Y
CONSTYPE WATER SEWER IND:	N
DIR DISCHARGE USWATER IND:	N
RECEIVING WATER NAME:	Los Angeles River
CERTIFIER NAME:	Alvin Martins
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	28-JUL-11
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LOS ANGELES	S107736251	EAST LOS ANGELES STAR PROPERTIES	EAST CESAR E. CHAVEZ AVENUE/EA	90022	ENVIROSTOR, SCH
LOS ANGELES	S105628553	ROWAN NEW PRIMARY CENTER	EASTMAN AVENUE/GAGE AVENUE	90023	ENVIROSTOR, SCH
MONTEREY PARK	1007443878	BLANCHARD ST, CLOSED LANDFILL	BLANCHARD STREET		ODI
MONTEREY PARK	S111075793	BLANCHARD STREET DUMP	4531 WEST BLANCHARD STREET	91754	SWF/LF

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 06/08/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

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: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/07/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/08/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/08/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 93

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 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 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/12/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 57

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/14/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
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
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 01/03/2017
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 57
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/02/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/02/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 01/13/2017
Date Data Arrived at EDR: 01/17/2017
Date Made Active in Reports: 05/31/2017
Number of Days to Update: 134
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

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

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: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 54

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 105

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133
Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/26/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74
Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57
Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
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
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/06/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/04/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 35

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

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: 05/22/2017
Next Scheduled EDR Contact: 07/31/2017
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: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 79
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 64
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 42
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 01/23/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 118

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/14/2017
Date Data Arrived at EDR: 02/17/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 97

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/11/2017
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 04/26/2017
Number of Days to Update: 13
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/13/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/15/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 107
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 87
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 12/22/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 70
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/03/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 01/20/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 31

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 37

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 94

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/23/2017
Date Data Arrived at EDR: 02/24/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 77

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/17/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/26/2017
Number of Days to Update: 65

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/24/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 73

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/06/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 40

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 03/20/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 57

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 36

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 77

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2017
Date Data Arrived at EDR: 01/20/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 41

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 66

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/17/2017
Date Data Arrived at EDR: 04/18/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 14

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/17/2017
Date Data Arrived at EDR: 01/18/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 112

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/10/2017
Date Data Arrived at EDR: 01/13/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 110

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/03/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 76

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 54

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 96

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2016
Date Data Arrived at EDR: 11/11/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 85

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 1

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/19/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 98

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/08/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 105

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/09/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 10/05/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/28/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 62
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/21/2017
Date Data Arrived at EDR: 03/23/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 47
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 02/21/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 91
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 33
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 14
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 89
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/10/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 75

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 1

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 47

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 03/01/2017
Date Data Arrived at EDR: 03/30/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 54

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 55

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/20/2017
Date Data Arrived at EDR: 01/24/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 114

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA Facility List
Cupa facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 113

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

TULARE COUNTY:

CUPA Facility List
Cupa program facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/25/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 34

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/27/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 103

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 89

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2017
Date Data Arrived at EDR: 03/15/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 01/03/2017
Number of Days to Update: 96

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
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: 06/12/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

BELVEDERE MIDDLE SCHOOL
312 N RECORD AVENUE
LOS ANGELES, CA 90063

TARGET PROPERTY COORDINATES

Latitude (North):	34.039323 - 34° 2' 21.56"
Longitude (West):	118.181613 - 118° 10' 53.81"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	390925.5
UTM Y (Meters):	3766951.0
Elevation:	313 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630795 LOS ANGELES, 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).

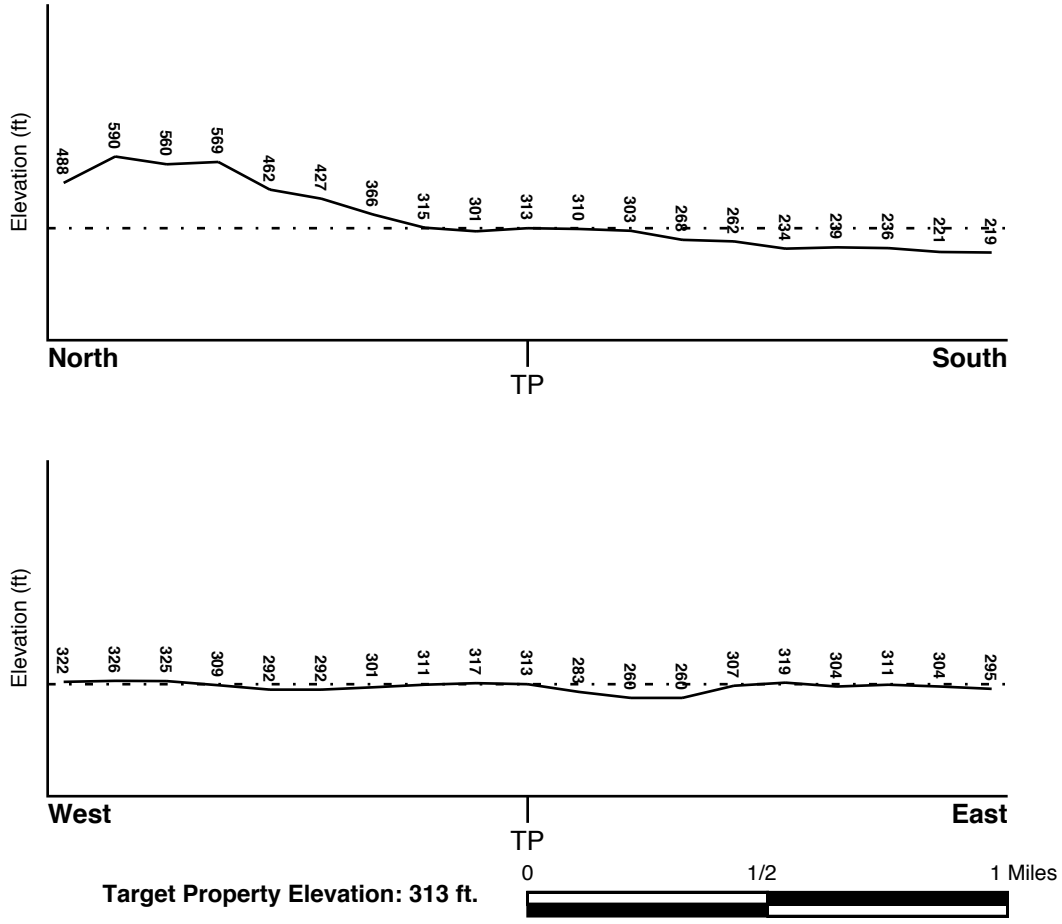
TOPOGRAPHIC INFORMATION

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 ESE

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

Flood Plain Panel at Target Property	FEMA Source Type
06037C1641F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1637F	FEMA FIRM Flood data
06037C1639F	FEMA FIRM Flood data
06037C1643F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
LOS ANGELES	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
3	1/2 - 1 Mile East	Not Reported

For additional site information, refer to Physical Setting Source Map Findings.

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 10 inches

Depth to Bedrock Max: > 10 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	6 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
sandy loam
gravelly - sandy loam
silt loam
clay
fine sand
gravelly - sand
sand
fine sandy loam

Surficial Soil Types:
sandy loam
gravelly - sandy loam
silt loam
clay
fine sand
gravelly - sand
sand
fine sandy loam

Shallow Soil Types:
fine sandy loam
gravelly - loam
sandy clay
sandy clay loam
clay
silty clay
sand

Deeper Soil Types:
gravelly - sandy loam
sandy loam
very gravelly - sandy loam
stratified
very fine sandy loam
weathered bedrock
sand
gravelly - fine sandy loam
silty clay loam
clay loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

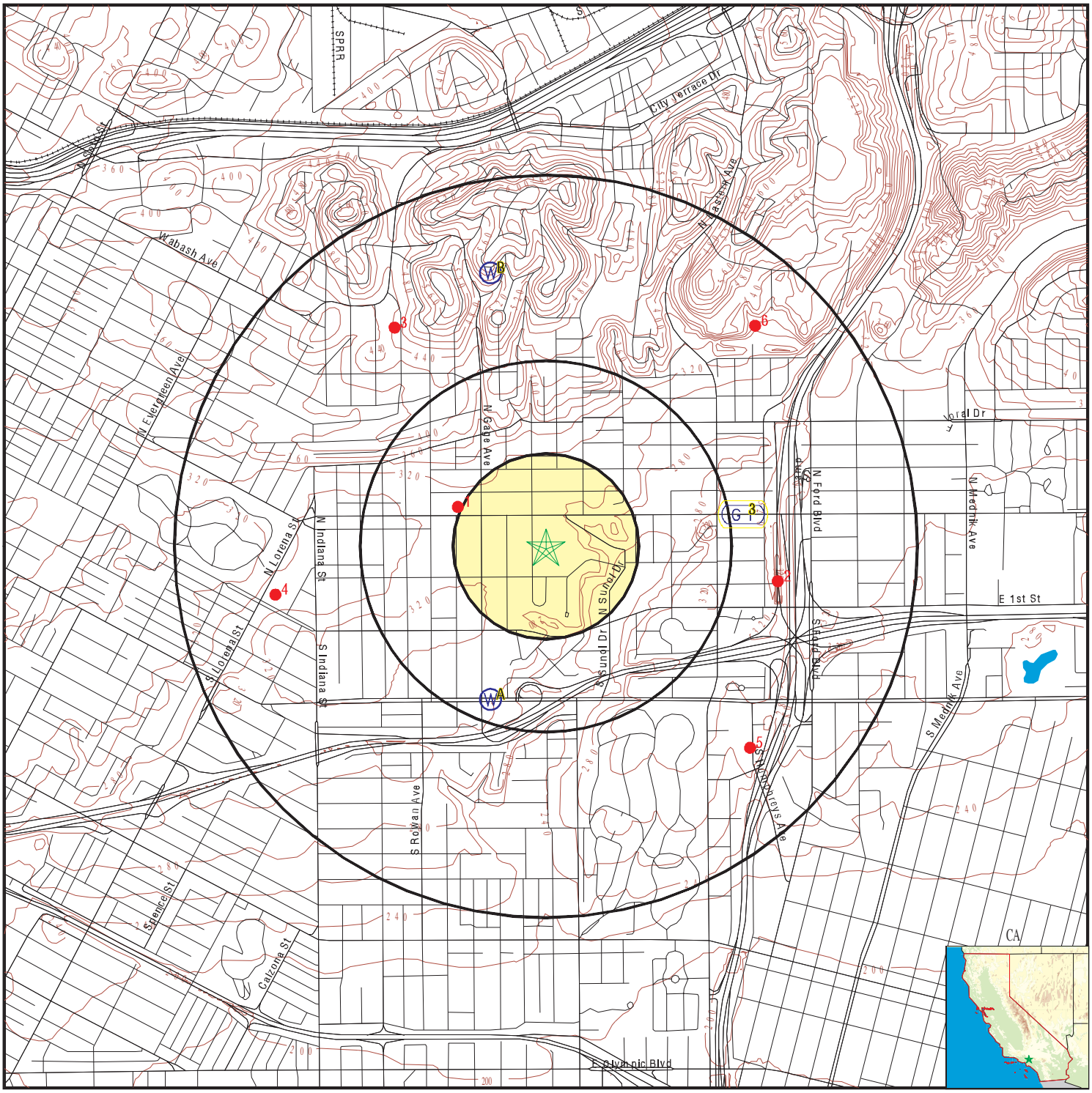
MAP ID	WELL ID	LOCATION FROM TP
A1	22915	1/4 - 1/2 Mile SSW
A2	3934	1/4 - 1/2 Mile SSW
B4	1428	1/2 - 1 Mile NNW
B5	1429	1/2 - 1 Mile NNW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG11000204483	1/4 - 1/2 Mile WNW
2	CAOG11000204534	1/2 - 1 Mile East
3	CAOG11000205128	1/2 - 1 Mile NW
4	CAOG11000204525	1/2 - 1 Mile West
5	CAOG11000205082	1/2 - 1 Mile SE
6	CAOG11000214024	1/2 - 1 Mile NE

PHYSICAL SETTING SOURCE MAP - 4976340.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Belvedere Middle School	CLIENT:	Tetra Tech, Inc.
ADDRESS:	312 N Record Avenue Los Angeles CA 90063	CONTACT:	Vanessa Calder
LAT/LONG:	34.039323 / 118.181613	INQUIRY #:	4976340.2s
		DATE:	June 26, 2017 11:34 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
SSW
1/4 - 1/2 Mile
Lower | **CA WELLS** | **22915**

Water System Information:

Prime Station Code:	G19/152-VOAERSE	User ID:	4TH
FRDS Number:	1910152021	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT
Water Type:	Well/Groundwater	Well Status:	Active Treated
Source Lat/Long:	340200.0 1181100.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	AERATION SPRAY TREATED EFFLUENT OF RESVR		
System Number:	1910152		
System Name:	SOUTH GATE-CITY, WATER DEPT.		
Organization That Operates System:			
	8650 CALIFORNIA AVE. SOUTH GATE, CA 90280		
Pop Served:	82550	Connections:	14719
Area Served:	SOUTH GATE		
Sample Collected:	01-JAN-11	Findings:	1.51 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-JAN-11	Findings:	0.98 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-JAN-11	Findings:	0.96 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-JAN-11	Findings:	0.91 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-JAN-11	Findings:	1.13 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-FEB-11	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-FEB-11	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-FEB-11	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-MAR-11	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-MAR-11	Findings:	1.13 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-MAR-11	Findings:	1.17 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-MAR-11	Findings:	1.12 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	29-MAR-11	Findings:	1.34 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	04-APR-11	Findings:	1.66 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-APR-11	Findings:	1.74 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-APR-11	Findings:	1.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-APR-11	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-MAY-11	Findings:	1.52 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-MAY-11	Findings:	1.82 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-MAY-11	Findings:	2.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-MAY-11	Findings:	1.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	31-MAY-11	Findings:	1.81 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-JUN-11	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-JUN-11	Findings:	3.11 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	20-JUN-11	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	27-JUN-11	Findings:	1.04 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-JUL-11	Findings:	0.92 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-JUL-11	Findings:	1. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-JUL-11	Findings:	1.11 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-JUL-11	Findings:	0.89 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-AUG-11	Findings:	1. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-AUG-11	Findings:	0.89 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-AUG-11	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-AUG-11	Findings:	0.87 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	29-AUG-11	Findings:	0.95 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	06-SEP-11	Findings:	0.98 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-SEP-11	Findings:	0.99 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-SEP-11	Findings:	0.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	26-SEP-11	Findings:	0.77 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-OCT-11	Findings:	0.87 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-OCT-11	Findings:	1.01 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-OCT-11	Findings:	0.98 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-OCT-11	Findings:	0.84 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-NOV-11	Findings:	0.73 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-NOV-11	Findings:	0.81 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-NOV-11	Findings:	0.93 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-NOV-11	Findings:	0.73 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	28-NOV-11	Findings:	0.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-DEC-11	Findings:	0.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-DEC-11	Findings:	0.95 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-DEC-11	Findings:	0.77 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	27-DEC-11	Findings:	0.81 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-JAN-12	Findings:	0.83 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-JAN-12	Findings:	0.68 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-JAN-12	Findings:	0.74 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	23-JAN-12	Findings:	0.93 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	30-JAN-12	Findings:	0.83 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	06-FEB-12	Findings:	0.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-FEB-12	Findings:	0.84 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-FEB-12	Findings:	0.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	27-FEB-12	Findings:	0.85 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-MAR-12	Findings:	0.91 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-MAR-12	Findings:	0.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-MAR-12	Findings:	0.65 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	27-MAR-12	Findings:	0.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-APR-12	Findings:	0.72 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-APR-12	Findings:	0.78 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	16-APR-12	Findings:	0.75 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	23-APR-12	Findings:	0.71 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	30-APR-12	Findings:	0.77 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-MAY-12	Findings:	0.59 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-MAY-12	Findings:	0.77 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-MAY-12	Findings:	0.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	29-MAY-12	Findings:	0.95 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-JUN-12	Findings:	0.78 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-JUN-12	Findings:	0.85 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-JUN-12	Findings:	1.02 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-JUL-12	Findings:	0.99 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-JUL-12	Findings:	0.96 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	16-JUL-12	Findings:	1.02 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-JUL-12	Findings:	1.33 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	30-JUL-12	Findings:	1.06 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-AUG-12	Findings:	0.86 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-AUG-12	Findings:	1.01 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-AUG-12	Findings:	0.97 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	20-AUG-12	Findings:	0.92 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	27-AUG-12	Findings:	1.09 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-SEP-12	Findings:	1.03 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-SEP-12	Findings:	1.02 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-SEP-12	Findings:	1.01 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-OCT-12	Findings:	0.97 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-OCT-12	Findings:	1.19 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-OCT-12	Findings:	1.55 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-OCT-12	Findings:	0.78 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	29-OCT-12	Findings:	1.01 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-NOV-12	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-NOV-12	Findings:	1. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-NOV-12	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	26-NOV-12	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-DEC-12	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-DEC-12	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	17-DEC-12	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-JAN-13	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-JAN-13	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-JAN-13	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	29-JAN-13	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-FEB-13	Findings:	1.67 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-FEB-13	Findings:	1.26 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-FEB-13	Findings:	1.67 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-FEB-13	Findings:	1.95 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-MAR-13	Findings:	1.63 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-MAR-13	Findings:	2.47 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-MAR-13	Findings:	1.98 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-APR-13	Findings:	1.35 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-APR-13	Findings:	1.21 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-APR-13	Findings:	1.59 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	23-APR-13	Findings:	1.42 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-MAY-13	Findings:	1.35 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	28-MAY-13	Findings:	1.12 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-JUN-13	Findings:	1.63 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-JUN-13	Findings:	1.78 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-JUL-13	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-JUL-13	Findings:	0.84 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	15-JUL-13	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-JUL-13	Findings:	1. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	29-JUL-13	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	30-JUL-13	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-AUG-13	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-AUG-13	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-AUG-13	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-AUG-13	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-AUG-13	Findings:	0.78 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	20-AUG-13	Findings:	0.78 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	26-AUG-13	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-SEP-13	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-SEP-13	Findings:	1. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-SEP-13	Findings:	1. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-SEP-13	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	23-SEP-13	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-SEP-13	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-OCT-13	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-OCT-13	Findings:	1.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-OCT-13	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-OCT-13	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-OCT-13	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	28-OCT-13	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	30-OCT-13	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-NOV-13	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-NOV-13	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-NOV-13	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-NOV-13	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-NOV-13	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-NOV-13	Findings:	1.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-DEC-13	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-DEC-13	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	16-DEC-13	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-DEC-13	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	31-DEC-13	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-JAN-14	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-JAN-14	Findings:	1.41 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-JAN-14	Findings:	1.81 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-JAN-14	Findings:	1.36 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	28-JAN-14	Findings:	1.32 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-FEB-14	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-FEB-14	Findings:	1.44 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-FEB-14	Findings:	1.45 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-FEB-14	Findings:	1.43 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	03-MAR-14	Findings:	1.53 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-MAR-14	Findings:	1.54 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-MAR-14	Findings:	1.62 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-MAR-14	Findings:	0.93 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-APR-14	Findings:	1.85 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-APR-14	Findings:	1.95 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-APR-14	Findings:	2.03 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-APR-14	Findings:	2.08 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	29-APR-14	Findings:	1.96 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-MAY-14	Findings:	1.44 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-MAY-14	Findings:	1.63 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-JUN-14	Findings:	1.24 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	16-JUN-14	Findings:	1.47 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	23-JUN-14	Findings:	1.29 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-JUL-14	Findings:	1.16 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-JUL-14	Findings:	1.26 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-JUL-14	Findings:	1.47 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	29-JUL-14	Findings:	1.07 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-AUG-14	Findings:	1.09 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-AUG-14	Findings:	1.39 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-SEP-14	Findings:	1.85 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-SEP-14	Findings:	1.24 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	15-SEP-14	Findings:	1.23 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-SEP-14	Findings:	1.79 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	30-SEP-14	Findings:	1.36 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-OCT-14	Findings:	1.51 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-OCT-14	Findings:	1.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	20-OCT-14	Findings:	1.31 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-OCT-14	Findings:	1.52 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-NOV-14	Findings:	1.59 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-NOV-14	Findings:	1.56 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-DEC-14	Findings:	1.47 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	23-DEC-14	Findings:	1.41 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-JUL-15	Findings:	1.51 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-JUL-15	Findings:	1.51 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	20-JUL-15	Findings:	1.35 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	27-JUL-15	Findings:	1.26 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-AUG-15	Findings:	1.29 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-AUG-15	Findings:	1.42 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-SEP-15	Findings:	1.09 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-SEP-15	Findings:	1.29 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	28-SEP-15	Findings:	1.23 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-OCT-15	Findings:	1.22 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	26-OCT-15	Findings:	1.43 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	30-NOV-15	Findings:	1.55 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-DEC-15	Findings:	1.64 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-DEC-15	Findings:	1.57 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-DEC-15	Findings:	1.37 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-DEC-15	Findings:	1.39 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-DEC-15	Findings:	0.51 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	29-DEC-15	Findings:	1.64 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	29-DEC-15	Findings:	0.54 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-JAN-16	Findings:	1.75 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-JAN-16	Findings:	0.67 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-JAN-16	Findings:	1.52 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-JAN-16	Findings:	1.01 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-JAN-16	Findings:	1.38 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-JAN-16	Findings:	1.12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	26-JAN-16	Findings:	1.74 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-FEB-16	Findings:	1.58 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-FEB-16	Findings:	1.21 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-FEB-16	Findings:	0.84 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-FEB-16	Findings:	0.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-FEB-16	Findings:	1.13 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-FEB-16	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-FEB-16	Findings:	1.3 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	29-FEB-16	Findings:	0.95 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	29-FEB-16	Findings:	1.33 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-MAR-16	Findings:	0.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-MAR-16	Findings:	1.18 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-MAR-16	Findings:	0.98 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-MAR-16	Findings:	1.23 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-MAR-16	Findings:	1.32 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-MAR-16	Findings:	0.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	30-MAR-16	Findings:	1.07 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-APR-16	Findings:	0.79 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-APR-16	Findings:	1.24 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-APR-16	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-APR-16	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-APR-16	Findings:	1.15 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-APR-16	Findings:	0.98 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	25-APR-16	Findings:	1.19 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	25-APR-16	Findings:	1.08 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-MAY-16	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-MAY-16	Findings:	0.99 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-MAY-16	Findings:	1.23 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-MAY-16	Findings:	0.96 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-MAY-16	Findings:	1. UG/L
Chemical:	TRICHLOROETHYLENE		

Sample Collected:	16-MAY-16	Findings:	1.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-MAY-16	Findings:	1.31 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-MAY-16	Findings:	1.12 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-JUN-16	Findings:	1.87 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-JUN-16	Findings:	0.94 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-JUN-16	Findings:	1.94 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-JUN-16	Findings:	1.16 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-JUN-16	Findings:	1.13 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	13-JUN-16	Findings:	1.84 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-JUN-16	Findings:	1.84 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-JUN-16	Findings:	1.11 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	27-JUN-16	Findings:	1.72 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	27-JUN-16	Findings:	1.18 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-JUL-16	Findings:	1.76 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-JUL-16	Findings:	1.32 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-JUL-16	Findings:	1.73 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-JUL-16	Findings:	0.92 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-JUL-16	Findings:	1.67 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-JUL-16	Findings:	1.05 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	25-JUL-16	Findings:	1.41 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-AUG-16	Findings:	2.52 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-AUG-16	Findings:	2.41 UG/L
Chemical:	TRICHLOROETHYLENE		

Sample Collected:	01-AUG-16	Findings:	0.95 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-AUG-16	Findings:	0.81 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-AUG-16	Findings:	0.95 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-AUG-16	Findings:	0.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-AUG-16	Findings:	2.24 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-AUG-16	Findings:	2.07 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	15-AUG-16	Findings:	1.14 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-AUG-16	Findings:	0.79 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-AUG-16	Findings:	1.08 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-AUG-16	Findings:	0.95 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-AUG-16	Findings:	2.84 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	22-AUG-16	Findings:	2.64 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	29-AUG-16	Findings:	1.05 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	29-AUG-16	Findings:	1.14 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	29-AUG-16	Findings:	2.65 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	29-AUG-16	Findings:	1.52 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-SEP-16	Findings:	1.73 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-SEP-16	Findings:	1.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-SEP-16	Findings:	4.35 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-SEP-16	Findings:	3.21 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-SEP-16	Findings:	3.31 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-SEP-16	Findings:	4.2 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	12-SEP-16	Findings:	1.17 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-SEP-16	Findings:	1.59 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-SEP-16	Findings:	4.16 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-SEP-16	Findings:	3.16 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-SEP-16	Findings:	1.35 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	22-SEP-16	Findings:	1.62 UG/L
Chemical:	TETRACHLOROETHYLENE		

A2
SSW **CA WELLS 3934**
1/4 - 1/2 Mile
Lower

Water System Information:

Prime Station Code:	03S/12W-06D04 S	User ID:	4TH
FRDS Number:	1910152009	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340200.0 1181100.0	Precision:	Undefined
Source Name:	WELL 19		
System Number:	1910152		
System Name:	SOUTH GATE-CITY, WATER DEPT.		
Organization That Operates System:			
	8650 CALIFORNIA AVE. SOUTH GATE, CA 90280		
Pop Served:	82550	Connections:	14719
Area Served:	SOUTH GATE		
Sample Collected:	14-JAN-16	Findings:	2.4 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	14-JAN-16	Findings:	10. UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	14-JAN-16	Findings:	4.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-JAN-16	Findings:	0.66 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	14-JAN-16	Findings:	6. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JAN-16	Findings:	2.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	01-FEB-16	Findings:	4.18 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-FEB-16	Findings:	5.19 UG/L
Chemical:	TRICHLOROETHYLENE		

Sample Collected:	11-FEB-16	Findings:	3.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-FEB-16	Findings:	5.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-MAR-16	Findings:	3.88 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-MAR-16	Findings:	4.87 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-MAR-16	Findings:	2.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-MAR-16	Findings:	4.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-APR-16	Findings:	5.16 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	04-APR-16	Findings:	3.86 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-APR-16	Findings:	740. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	14-APR-16	Findings:	7.72
Chemical:	PH, LABORATORY		
Sample Collected:	14-APR-16	Findings:	200. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	14-APR-16	Findings:	2.4 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	14-APR-16	Findings:	259. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	14-APR-16	Findings:	75.1 MG/L
Chemical:	CALCIUM		
Sample Collected:	14-APR-16	Findings:	17.2 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	14-APR-16	Findings:	48. MG/L
Chemical:	SODIUM		
Sample Collected:	14-APR-16	Findings:	2.8 MG/L
Chemical:	POTASSIUM		
Sample Collected:	14-APR-16	Findings:	51. MG/L
Chemical:	CHLORIDE		
Sample Collected:	14-APR-16	Findings:	0.25 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	14-APR-16	Findings:	2.8 UG/L
Chemical:	ARSENIC		
Sample Collected:	14-APR-16	Findings:	9.9 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	14-APR-16	Findings:	4. UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	14-APR-16	Findings:	0.59 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	14-APR-16	Findings:	5. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-APR-16	Findings:	440. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-APR-16	Findings:	12.3
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	14-APR-16	Findings:	2.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	02-MAY-16	Findings:	4.54 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	02-MAY-16	Findings:	3.36 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-JUN-16	Findings:	5.04 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-JUN-16	Findings:	4.11 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-JUN-16	Findings:	0.35 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	09-JUN-16	Findings:	2.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-JUN-16	Findings:	4.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	06-JUL-16	Findings:	4.09 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-JUL-16	Findings:	4.81 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JUL-16	Findings:	2.2 MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	14-JUL-16	Findings:	7. UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	14-JUL-16	Findings:	3.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-JUL-16	Findings:	0.51 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	14-JUL-16	Findings:	3.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	14-JUL-16	Findings:	1.9 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	01-AUG-16	Findings:	4.14 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-AUG-16	Findings:	4.81 UG/L
Chemical:	TRICHLOROETHYLENE		

Sample Collected:	11-AUG-16	Findings:	4. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-AUG-16	Findings:	4.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-SEP-16	Findings:	4.63 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-SEP-16	Findings:	3.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-SEP-16	Findings:	5.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-SEP-16	Findings:	4.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-SEP-16	Findings:	3.71 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-SEP-16	Findings:	4.26 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	01-JAN-11	Findings:	3.21 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-JAN-11	Findings:	2.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-JAN-11	Findings:	3.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-JAN-11	Findings:	3.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	10-JAN-11	Findings:	8.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-FEB-11	Findings:	2.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-MAR-11	Findings:	3.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-MAR-11	Findings:	2.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-APR-11	Findings:	4.67 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-APR-11	Findings:	3.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-APR-11	Findings:	3.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	07-APR-11	Findings:	7.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-MAY-11	Findings:	4.24 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-MAY-11	Findings:	3.8 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	09-JUN-11	Findings:	2.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-JUN-11	Findings:	7.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-JUL-11	Findings:	2.72 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-JUL-11	Findings:	3.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	21-JUL-11	Findings:	3.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	21-JUL-11	Findings:	5.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	21-JUL-11	Findings:	1.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	01-AUG-11	Findings:	2.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-AUG-11	Findings:	3.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-SEP-11	Findings:	2.75 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-SEP-11	Findings:	3. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-OCT-11	Findings:	2.89 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	20-OCT-11	Findings:	2.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	20-OCT-11	Findings:	2.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	20-OCT-11	Findings:	7.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-OCT-11	Findings:	1.4 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	01-NOV-11	Findings:	2.67 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-NOV-11	Findings:	3.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-DEC-11	Findings:	2.74 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-DEC-11	Findings:	3.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-JAN-12	Findings:	2.91 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	19-JAN-12	Findings:	2.3 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	19-JAN-12	Findings:	2. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	19-JAN-12	Findings:	7.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-FEB-12	Findings:	2.67 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	16-FEB-12	Findings:	15.3 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	16-FEB-12	Findings:	2.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	05-MAR-12	Findings:	3.01 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	15-MAR-12	Findings:	18.5 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	15-MAR-12	Findings:	3.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-APR-12	Findings:	2.66 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-APR-12	Findings:	17.8 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12-APR-12	Findings:	2.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-APR-12	Findings:	2.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-APR-12	Findings:	8.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-APR-12	Findings:	1.4 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	07-MAY-12	Findings:	3.14 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	10-MAY-12	Findings:	18.1 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	10-MAY-12	Findings:	2.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	06-JUN-12	Findings:	2.43 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-JUN-12	Findings:	18.2 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	07-JUN-12	Findings:	2.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	02-JUL-12	Findings:	2.77 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-JUL-12	Findings:	18.5 C
Chemical:	SOURCE TEMPERATURE C		

Sample Collected:	12-JUL-12	Findings:	3.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-JUL-12	Findings:	3.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-JUL-12	Findings:	7.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	12-JUL-12	Findings:	1.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	01-AUG-12	Findings:	3.23 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	16-AUG-12	Findings:	19.8 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	16-AUG-12	Findings:	3.3 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	04-SEP-12	Findings:	3.04 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-SEP-12	Findings:	18.8 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	13-SEP-12	Findings:	2.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	01-OCT-12	Findings:	3.49 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-OCT-12	Findings:	19.1 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11-OCT-12	Findings:	2.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-OCT-12	Findings:	2.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-OCT-12	Findings:	7.3 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	11-OCT-12	Findings:	1.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	05-NOV-12	Findings:	3.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	26-NOV-12	Findings:	17.9 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	26-NOV-12	Findings:	3.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	03-DEC-12	Findings:	3.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-DEC-12	Findings:	17.4 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	13-DEC-12	Findings:	2.9 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	01-JAN-13	Findings:	2. UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-JAN-13	Findings:	17.1 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	17-JAN-13	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-JAN-13	Findings:	2.2 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-JAN-13	Findings:	8.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-JAN-13	Findings:	1.6 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	14-FEB-13	Findings:	17.1 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	14-FEB-13	Findings:	1.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	07-MAR-13	Findings:	17.3 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	07-MAR-13	Findings:	2.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-APR-13	Findings:	18.3 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	18-APR-13	Findings:	650. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	18-APR-13	Findings:	8.26
Chemical:	PH, LABORATORY		
Sample Collected:	18-APR-13	Findings:	180. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	18-APR-13	Findings:	220. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	18-APR-13	Findings:	260. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	18-APR-13	Findings:	76. MG/L
Chemical:	CALCIUM		
Sample Collected:	18-APR-13	Findings:	16. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	18-APR-13	Findings:	49. MG/L
Chemical:	SODIUM		
Sample Collected:	18-APR-13	Findings:	2.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	18-APR-13	Findings:	48. MG/L
Chemical:	CHLORIDE		
Sample Collected:	18-APR-13	Findings:	92. MG/L
Chemical:	SULFATE		

Sample Collected:	18-APR-13	Findings:	0.33 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	18-APR-13	Findings:	2.8 UG/L
Chemical:	ARSENIC		
Sample Collected:	18-APR-13	Findings:	2.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-APR-13	Findings:	2.3 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	18-APR-13	Findings:	410. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	18-APR-13	Findings:	7.8 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-APR-13	Findings:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	18-APR-13	Findings:	1800. MG/L
Chemical:	NITRATE + NITRITE (AS N)		
Sample Collected:	18-APR-13	Findings:	1.3 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	16-MAY-13	Findings:	18.4 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	16-MAY-13	Findings:	2.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-JUN-13	Findings:	19.1 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	13-JUN-13	Findings:	2.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-JUL-13	Findings:	19.3 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	11-JUL-13	Findings:	2.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-JUL-13	Findings:	2.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	11-JUL-13	Findings:	7.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-AUG-13	Findings:	2.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-AUG-13	Findings:	19.9 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	08-AUG-13	Findings:	1.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-AUG-13	Findings:	2.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	05-SEP-13	Findings:	3.3 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	12-SEP-13	Findings:	19.6 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12-SEP-13	Findings:	1.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-SEP-13	Findings:	2.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-OCT-13	Findings:	19.5 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	17-OCT-13	Findings:	1.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-OCT-13	Findings:	2.5 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-OCT-13	Findings:	9.2 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-OCT-13	Findings:	1.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	14-NOV-13	Findings:	18.1 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	14-NOV-13	Findings:	2.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	14-NOV-13	Findings:	3. UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	12-DEC-13	Findings:	18.8 C
Chemical:	SOURCE TEMPERATURE C		
Sample Collected:	12-DEC-13	Findings:	2.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-DEC-13	Findings:	3.1 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-JAN-14	Findings:	3.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	16-JAN-14	Findings:	3.8 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	16-JAN-14	Findings:	9.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-JAN-14	Findings:	2. UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	13-FEB-14	Findings:	3.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-MAR-14	Findings:	2.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-APR-14	Findings:	2.8 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-APR-14	Findings:	0.51 UG/L
Chemical:	1,1-DICHLOROETHYLENE		

Sample Collected:	17-APR-14	Findings:	3.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-APR-14	Findings:	9. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-APR-14	Findings:	2. UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	22-MAY-14	Findings:	2.7 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	12-JUN-14	Findings:	3.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	13-JUN-14	Findings:	8.5 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	02-JUL-14	Findings:	3.23 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-JUL-14	Findings:	0.557 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	24-JUL-14	Findings:	0.253 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	24-JUL-14	Findings:	0.231 PCI/L
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		
Sample Collected:	24-JUL-14	Findings:	0.32 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	24-JUL-14	Findings:	0.47 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Sample Collected:	24-JUL-14	Findings:	0.266 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	24-JUL-14	Findings:	2.6 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	24-JUL-14	Findings:	4.1 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	24-JUL-14	Findings:	0.59 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	24-JUL-14	Findings:	4.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	24-JUL-14	Findings:	8.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	24-JUL-14	Findings:	2.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	24-JUL-14	Findings:	1.6e-002 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	14-AUG-14	Findings:	4.9 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-SEP-14	Findings:	4.2 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	09-OCT-14	Findings:	9.2 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	09-OCT-14	Findings:	4.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-OCT-14	Findings:	0.64 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	09-OCT-14	Findings:	5.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-OCT-14	Findings:	8.9 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	09-OCT-14	Findings:	2.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	12-NOV-14	Findings:	4.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	11-DEC-14	Findings:	4.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-JAN-15	Findings:	3.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	08-JAN-15	Findings:	0.61 UG/L
Chemical:	1,1-DICHLOROETHYLENE		
Sample Collected:	08-JAN-15	Findings:	4.7 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-JAN-15	Findings:	8.7 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-JAN-15	Findings:	2. UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	12-FEB-15	Findings:	3.5 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-SEP-15	Findings:	6.2 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	17-SEP-15	Findings:	3.6 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	17-SEP-15	Findings:	4.6 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	17-SEP-15	Findings:	9. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-SEP-15	Findings:	2.1 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	08-OCT-15	Findings:	2. MG/L
Chemical:	NITRATE (AS N)		
Sample Collected:	08-OCT-15	Findings:	9.2 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	08-OCT-15	Findings:	5.3 UG/L
Chemical:	TETRACHLOROETHYLENE		

Sample Collected:	08-OCT-15	Findings:	5.9 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	08-OCT-15	Findings:	9. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	08-OCT-15	Findings:	2.4 UG/L
Chemical:	1,4-DIOXANE		
Sample Collected:	18-NOV-15	Findings:	4.2 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	18-NOV-15	Findings:	5.4 UG/L
Chemical:	TRICHLOROETHYLENE		
Sample Collected:	09-DEC-15	Findings:	4.4 UG/L
Chemical:	TETRACHLOROETHYLENE		
Sample Collected:	09-DEC-15	Findings:	5.6 UG/L
Chemical:	TRICHLOROETHYLENE		

3
East
1/2 - 1 Mile
Higher

Site ID:	900570061
Groundwater Flow:	Not Reported
Shallow Water Depth:	8.37
Deep Water Depth:	12
Average Water Depth:	Not Reported
Date:	08/07/1996

AQUIFLOW **55178**

B4
NNW
1/2 - 1 Mile
Higher

CA WELLS **1428**

Water System Information:

Prime Station Code:	01S/11W-30E03 S	User ID:	4TH
FRDS Number:	1910092009	County:	Los Angeles
District Number:	07	Station Type:	WELL/ABNT
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340300.0 1181100.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL 08		
System Number:	1910092		
System Name:	MONTEREY PARK-CITY, WATER DEPT.		
Organization That Operates System:			
	320 W NEWMARK ST MONTEREY PARK, CA 91754		
Pop Served:	59000	Connections:	12103
Area Served:	MONTEREY PARK		
Sample Collected:	23-FEB-06	Findings:	1. UG/L
Chemical:	TETRACHLOROETHYLENE		

B5
NNW
1/2 - 1 Mile
Higher

CA WELLS **1429**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Water System Information:

Prime Station Code:	01S/11W-30F01 S	User ID:	4TH
FRDS Number:	1910092008	County:	Los Angeles
District Number:	07	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	340300.0 1181100.0	Precision:	Undefined
Source Name:	WELL 07		
System Number:	1910092		
System Name:	MONTEREY PARK-CITY, WATER DEPT.		
Organization That Operates System:			
	320 W NEWMARK ST MONTEREY PARK, CA 91754		
Pop Served:	59000	Connections:	12103
Area Served:	MONTEREY PARK		
Sample Collected:	03-NOV-09	Findings:	3.6 UG/L
Chemical:	TETRACHLOROETHYLENE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
WNW **OIL_GAS** **CAOG11000204483**
1/4 - 1/2 Mile

District nun:	1	Api number:	03705152
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Atlantic Richfield Company		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	31
Township:	01S	Range:	12W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Boyle Community	Wellnumber:	33
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204483		

2
East **OIL_GAS** **CAOG11000204534**
1/2 - 1 Mile

District nun:	1	Api number:	03705222
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Boyle Royalties Co.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	31
Township:	01S	Range:	12W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Not Reported	Wellnumber:	104-1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000204534		

3
NW **OIL_GAS** **CAOG11000205128**
1/2 - 1 Mile

District nun:	1	Api number:	03706135
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Chevron U.S.A. Inc.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	25
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Huntington	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000205128		

4
West **OIL_GAS** **CAOG11000204525**
1/2 - 1 Mile

District nun:	1	Api number:	03705210
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Boyle Royalties Co.		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	36
Township:	01S	Range:	13W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Taylor	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000204525		

5
SE **OIL_GAS** **CAOG11000205082**
1/2 - 1 Mile

District nun:	1	Api number:	03706039
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	The Superior Oil Company		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	6
Township:	02S	Range:	12W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		

Comments:	Not Reported		
Leasename:	Anderson A	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000205082		

6
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000214024**

District nun:	1	Api number:	03720206
Blm well:	N	Redrill can:	Not Reported
Dryhole:	Y	Well status:	P
Operator name:	Occidental Petroleum Corporation		
County name:	Los Angeles	Fieldname:	Any Field
Area name:	Any Area	Section:	31
Township:	01S	Range:	12W
Base meridian:	SB	Elevation:	Not Reported
Locationde:	Not Reported		
Gissourcec:	hud		
Comments:	Not Reported		
Leasename:	Kazarian	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0		
Redrillfoo:	0		
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Unknown	Gissymbol:	PDH
Site id:	CAOG11000214024		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
90063	3	0

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX C HISTORICAL AERIAL PHOTOGRAPHS

Belvedere Middle School
312 N Record Avenue
Los Angeles, CA 90063

Inquiry Number: 4976340.12
June 27, 2017

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

06/27/17

Site Name:

Belvedere Middle School
312 N Record Avenue
Los Angeles, CA 90063
EDR Inquiry # 4976340.12

Client Name:

Tetra Tech, Inc.
301 Vanderbilt Way
San Bernardino, CA 92408
Contact: Vanessa Calder

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June 10, 2002	USDA
1994	1"=500'	Acquisition Date: May 31, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 22, 1989	USDA
1983	1"=500'	Flight Date: November 19, 1983	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: April 25, 1977	EDR Proprietary Brewster Pacific
1972	1"=500'	Flight Date: November 21, 1972	EDR Proprietary Brewster Pacific
1964	1"=500'	Flight Date: July 28, 1964	USGS
1952	1"=500'	Flight Date: August 01, 1952	USGS
1948	1"=500'	Flight Date: July 10, 1948	USGS
1938	1"=500'	Flight Date: May 22, 1938	USDA
1928	1"=500'	Flight Date: January 01, 1928	FAIR
1923	1"=500'	Flight Date: January 01, 1923	FAIR

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INQUIRY #: 4976340.12

YEAR: 2012

= 500'

N

EDR


INQUIRY #: 4976340.12
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 4976340.12
YEAR: 2009
= 500'
N
EDR



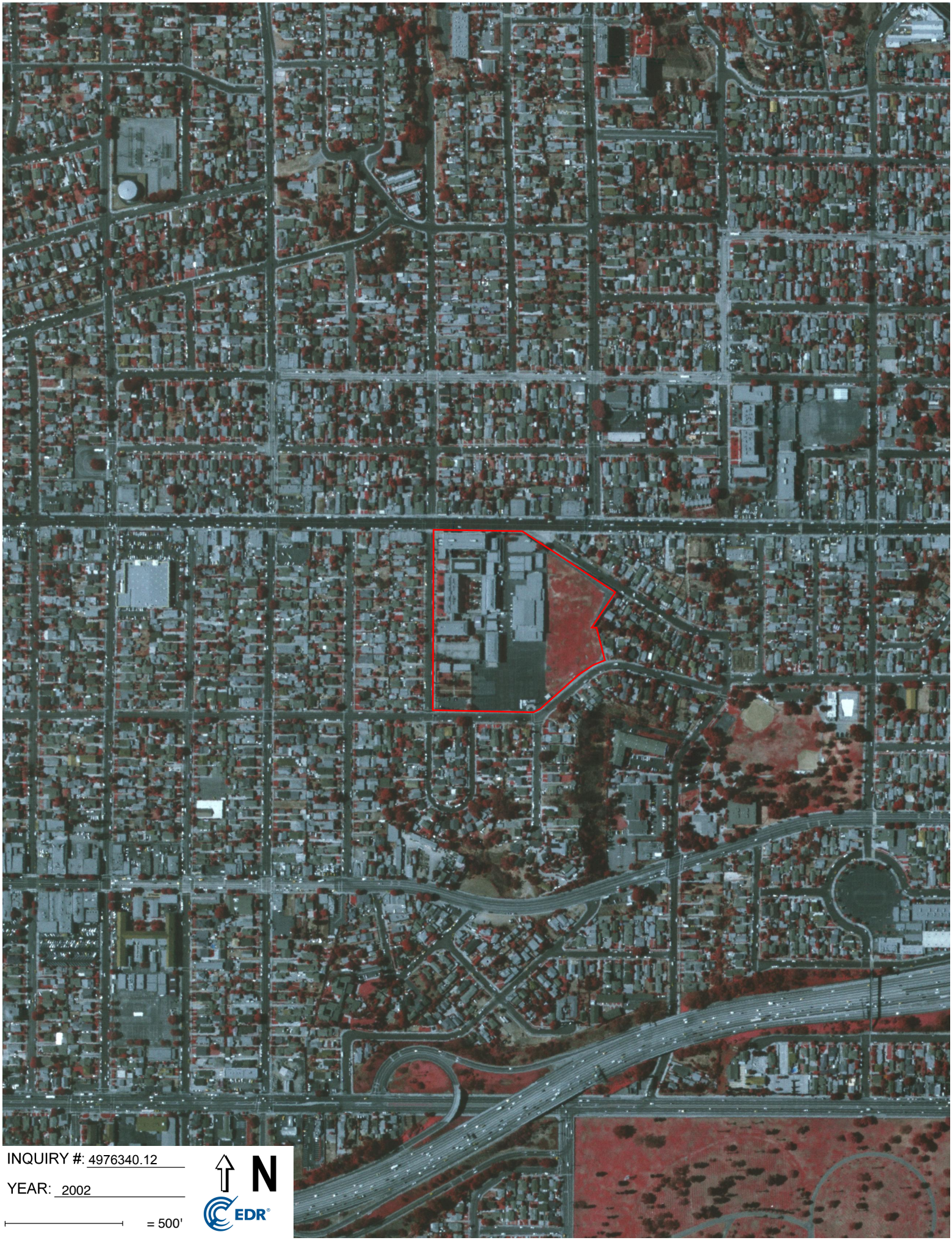
INQUIRY #: 4976340.12

YEAR: 2005

= 500'

N

EDR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YEAR: 2002
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EDR



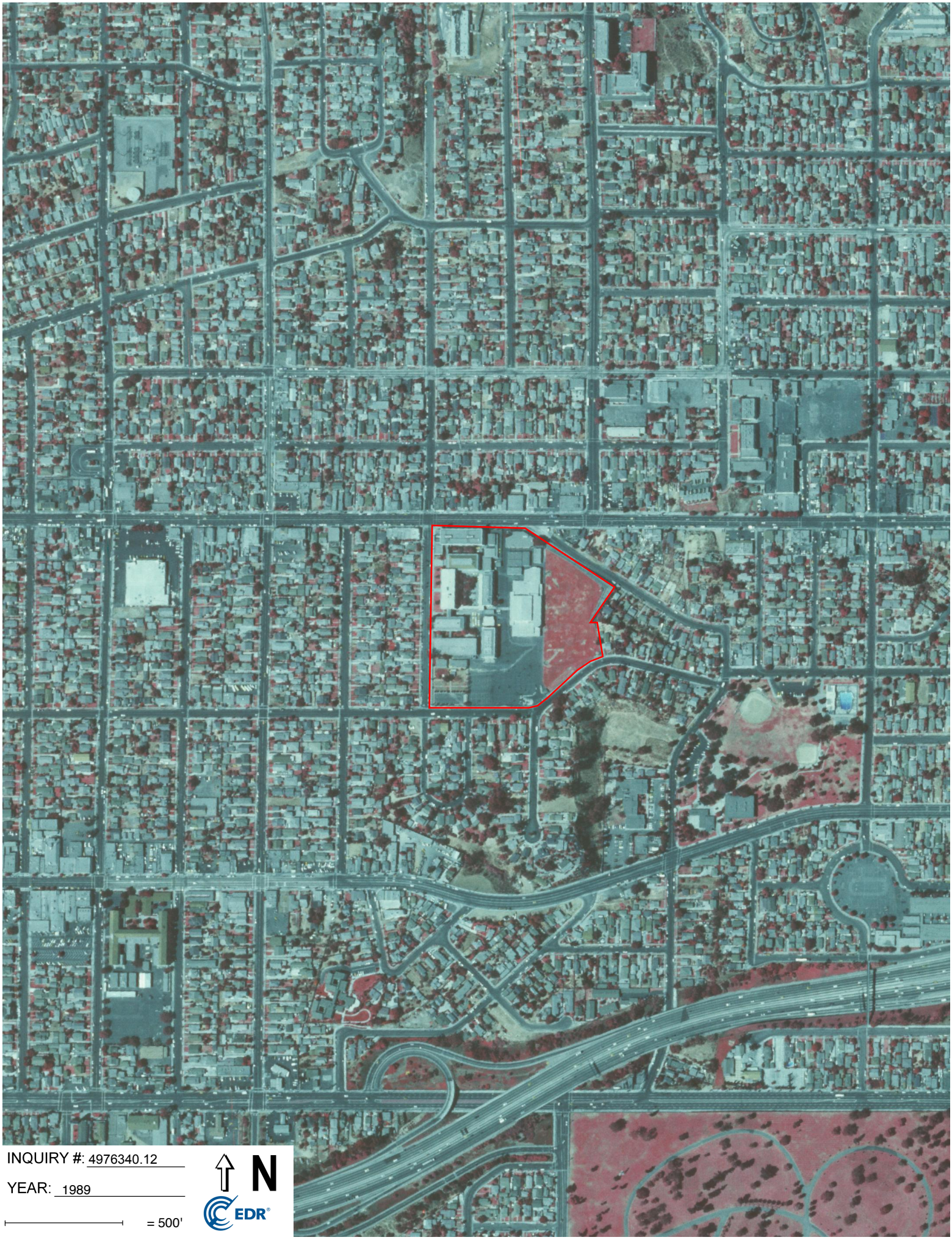
INQUIRY #: 4976340.12

YEAR: 1994

= 500'

N

EDR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EDR



INQUIRY #: 4976340.12

YEAR: 1983

= 500'

N

EDR


INQUIRY #: 4976340.12
YEAR: 1977
= 500'
N
EDR



INQUIRY #: 4976340.12

YEAR: 1972

= 500'

N

EDR


INQUIRY #: 4976340.12
YEAR: 1964
= 500'
N
EDR



INQUIRY #: 4976340.12

YEAR: 1952

= 500'

N

EDR


INQUIRY #: 4976340.12
YEAR: 1948
= 500'
N
EDR



INQUIRY #: 4976340.12

YEAR: 1938

= 500'

N

EDR



INQUIRY #: 4976340.12

YEAR: 1928

= 500'

N

EDR



INQUIRY #: 4976340.12

YEAR: 1923

= 500'

N

EDR

APPENDIX D **HISTORICAL TOPOGRAPHIC MAPS AND EDR SANBORN© MAP REPORT**

Belvedere Middle School
312 N Record Avenue
Los Angeles, CA 90063

Inquiry Number: 4976340.4
June 26, 2017

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

06/26/17

Site Name:

Belvedere Middle School
312 N Record Avenue
Los Angeles, CA 90063
EDR Inquiry # 4976340.4

Client Name:

Tetra Tech, Inc.
301 Vanderbilt Way
San Bernardino, CA 92408
Contact: Vanessa Calder

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Tetra Tech, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 100-HMG-T37254.01
Project: Belvedere Middle School

Coordinates:

Latitude:	34.039323 34° 2' 22" North
Longitude:	-118.181613 -118° 10' 54" West
UTM Zone:	Zone 11 North
UTM X Meters:	390928.00
UTM Y Meters:	3767145.66
Elevation:	313.00' above sea level

Maps Provided:

2012
1994
1981
1972
1966
1953
1926, 1928
1924
1900
1896
1894

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

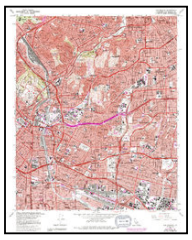
2012 Source Sheets



Los Angeles

7.5-minute, 24000

1994 Source Sheets



Los Angeles

7.5-minute, 24000
Aerial Photo Revised 1978

1981 Source Sheets



Los Angeles

7.5-minute, 24000
Aerial Photo Revised 1978

1972 Source Sheets



Los Angeles

7.5-minute, 24000
Aerial Photo Revised 1972

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1966 Source Sheets



Los Angeles

7.5-minute, 24000
Aerial Photo Revised 1964

1953 Source Sheets



Los Angeles

7.5-minute, 24000
Aerial Photo Revised 1952

1926, 1928 Source Sheets



Alhambra

7.5-minute, 24000



Los Angeles

7.5-minute, 24000

1924 Source Sheets



Alhambra

7.5-minute, 24000

Topo Sheet Key

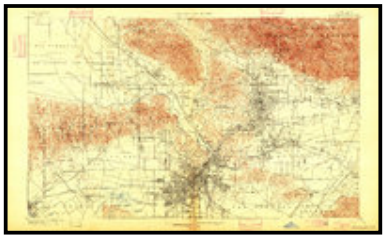
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1900 Source Sheets



Pasadena

15-minute, 62500



Los Angeles

15-minute, 62500

1896 Source Sheets



Pasadena

15-minute, 62500

1894 Source Sheets

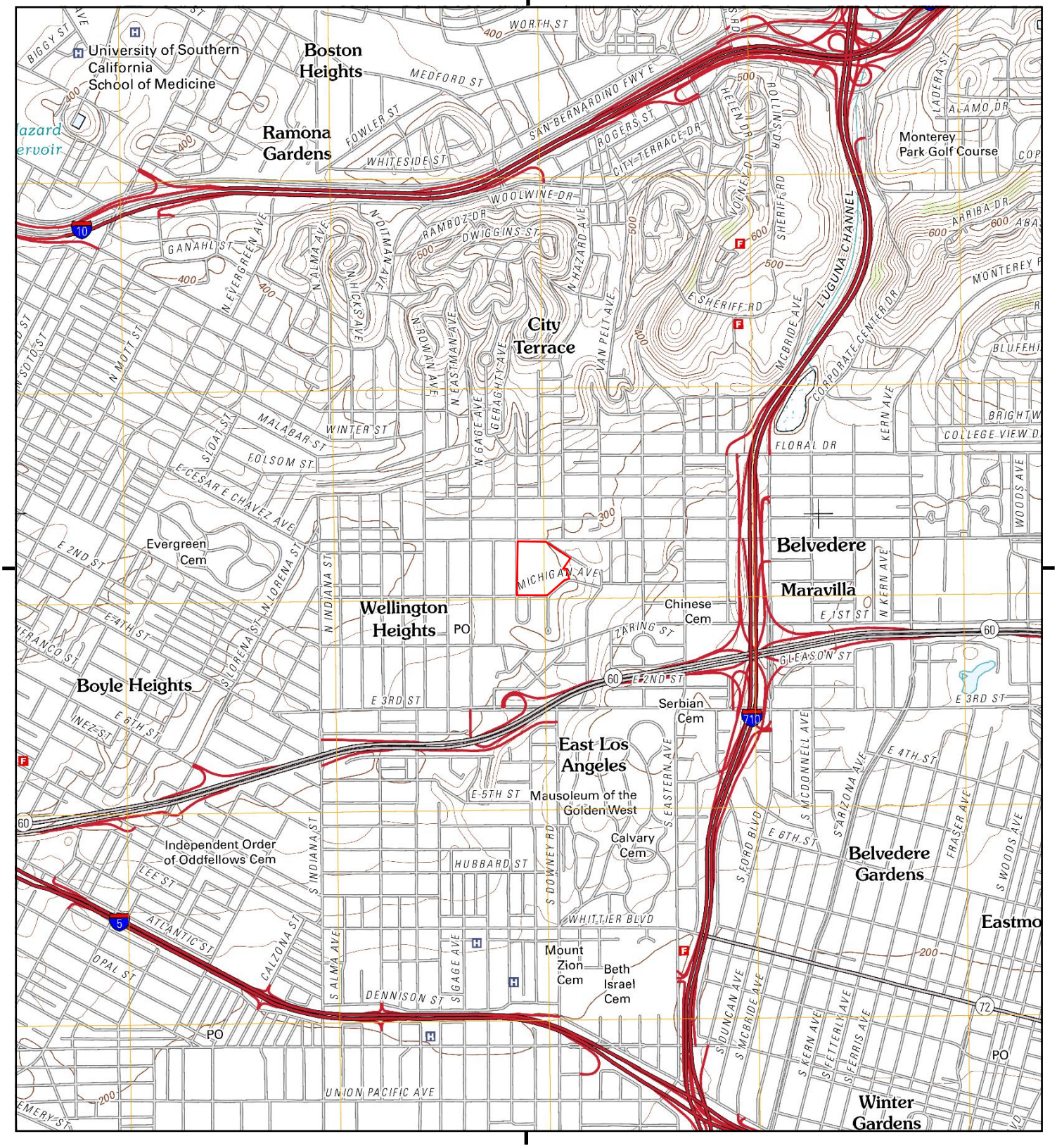


Los Angeles

15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

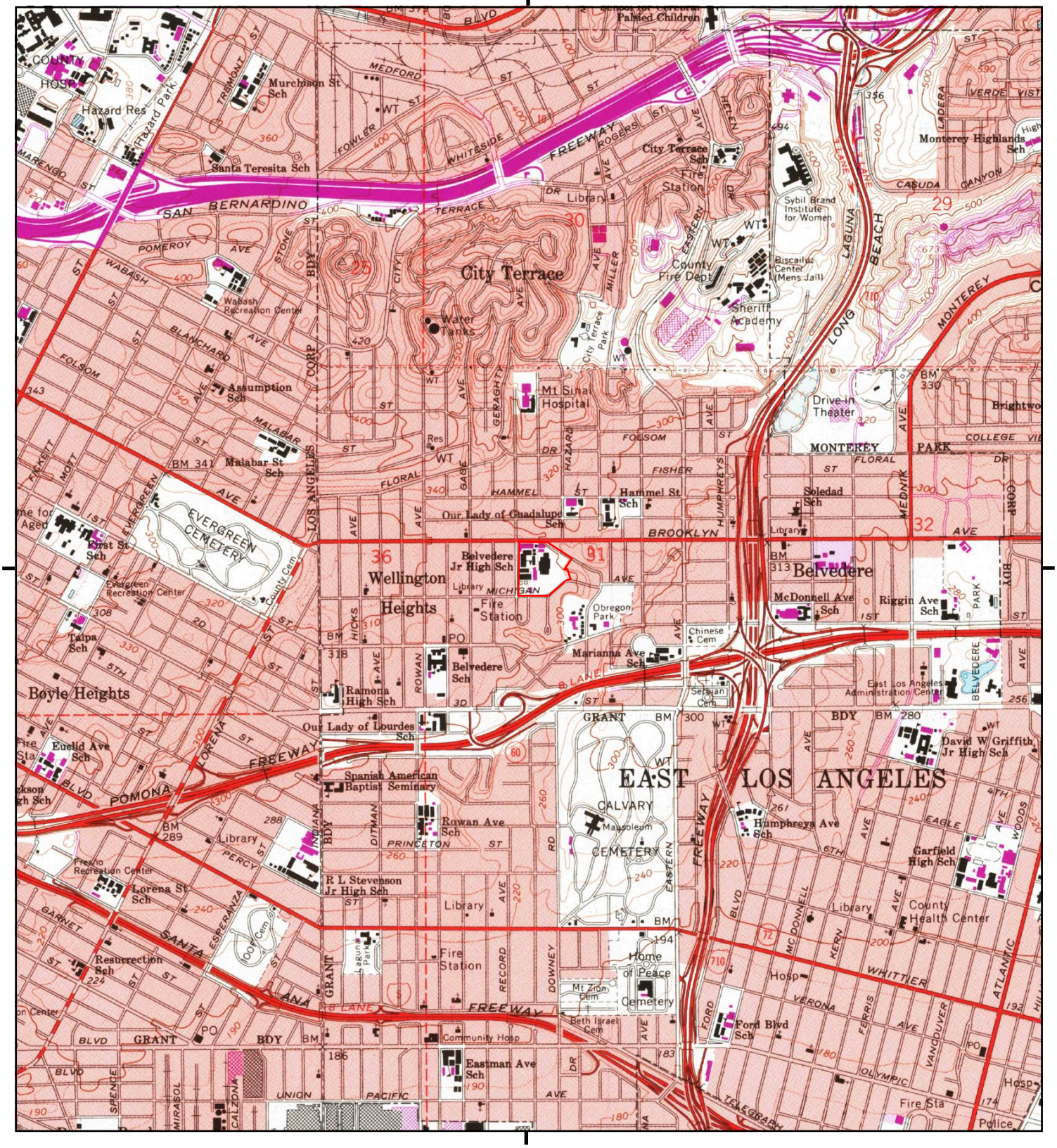
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Los Angeles, 2012, 7.5-minute

SITE NAME: Belvedere Middle School
ADDRESS: 312 N Record Avenue
Los Angeles, CA 90063
CLIENT: Tetra Tech, Inc.

N



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

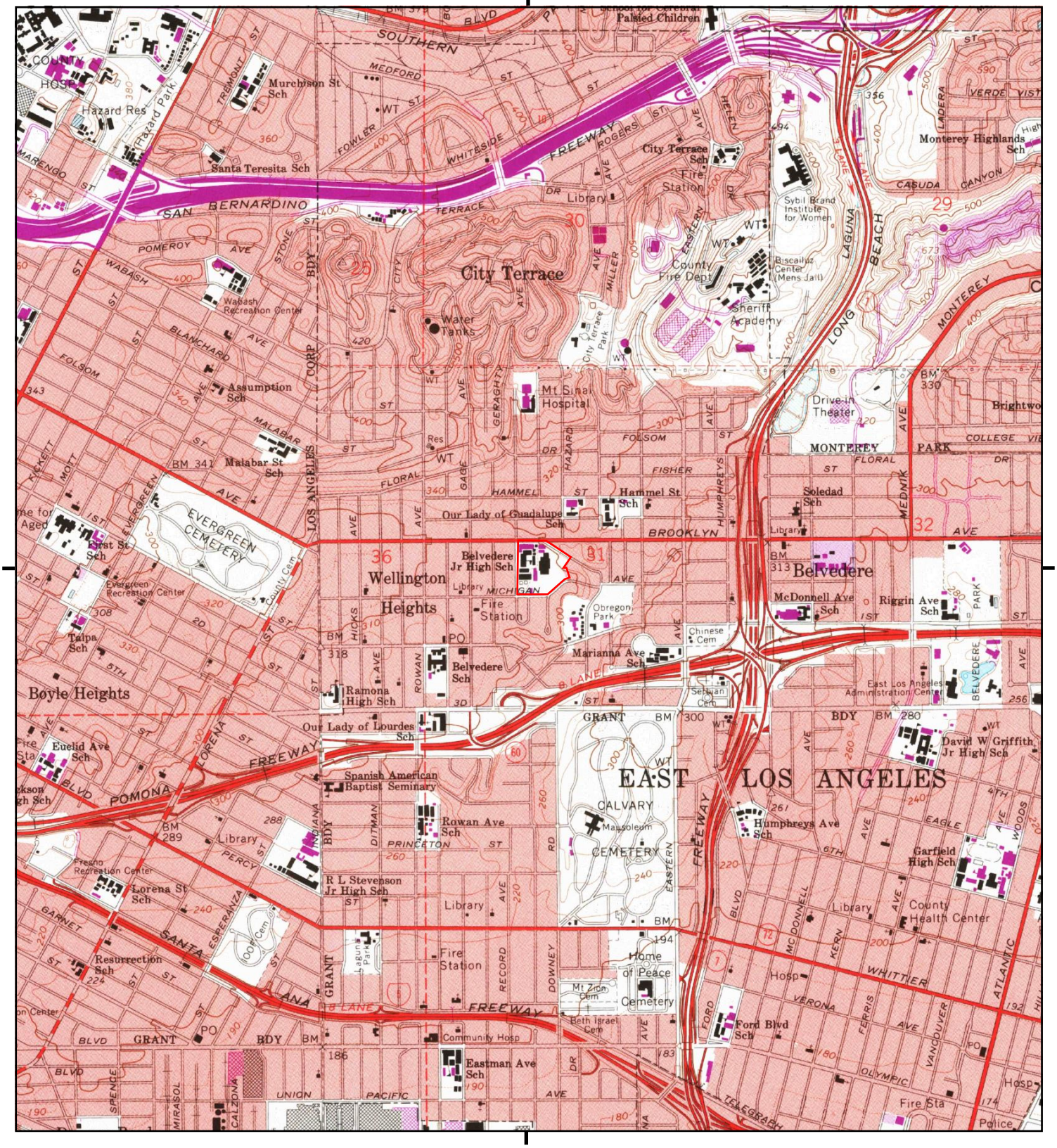
TP, Los Angeles, 1994, 7.5-minute

SITE NAME: Belvedere Middle School
ADDRESS: 312 N Record Avenue
Los Angeles, CA 90063
CLIENT: Tetra Tech, Inc.

N

Historical Topo Map

1981



This report includes information from the following map sheet(s).

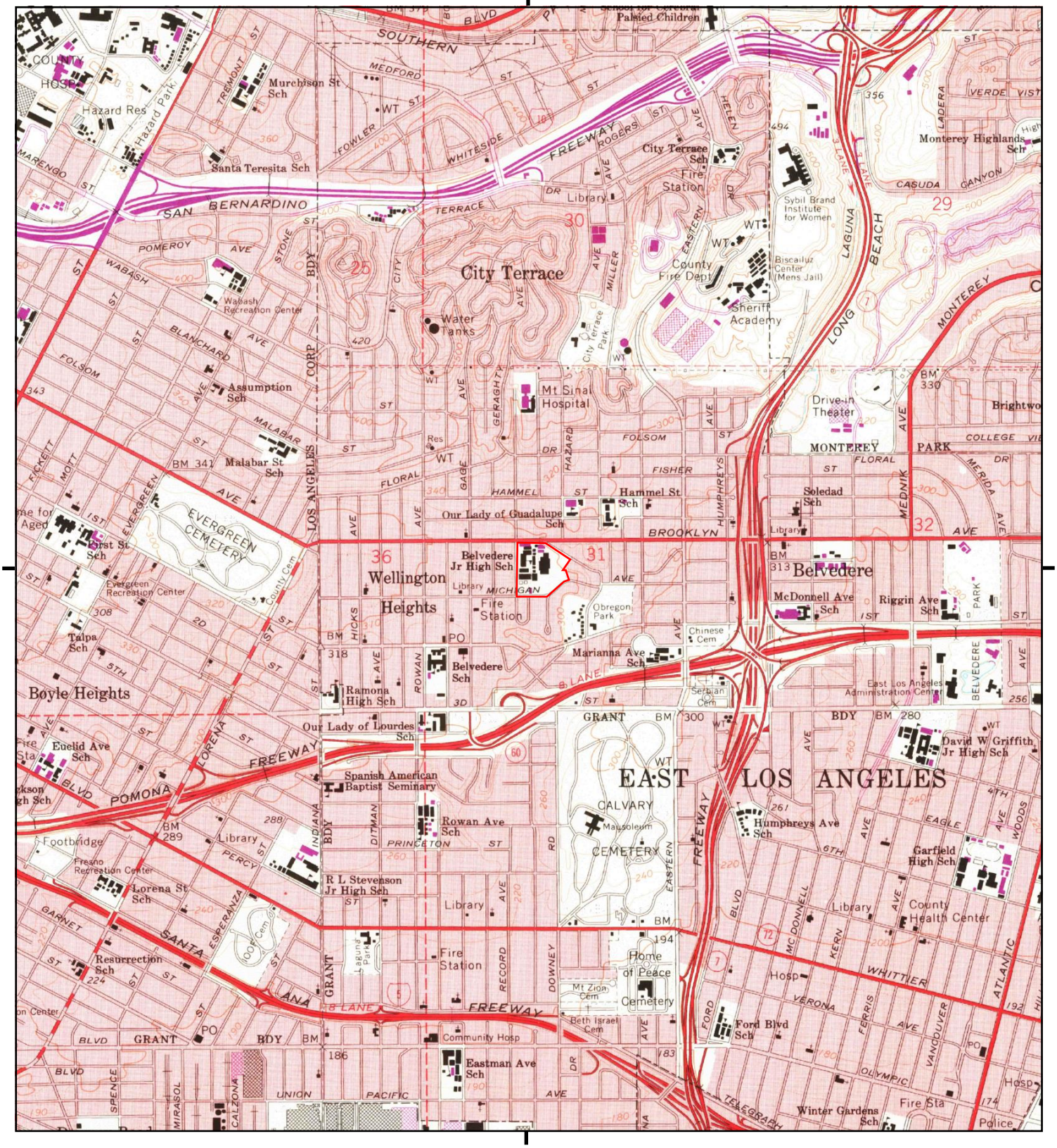
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Los Angeles, 1981, 7.5-minute

SITE NAME: Belvedere Middle School
ADDRESS: 312 N Record Avenue
Los Angeles, CA 90063
CLIENT: Tetra Tech, Inc.

N



This report includes information from the following map sheet(s).

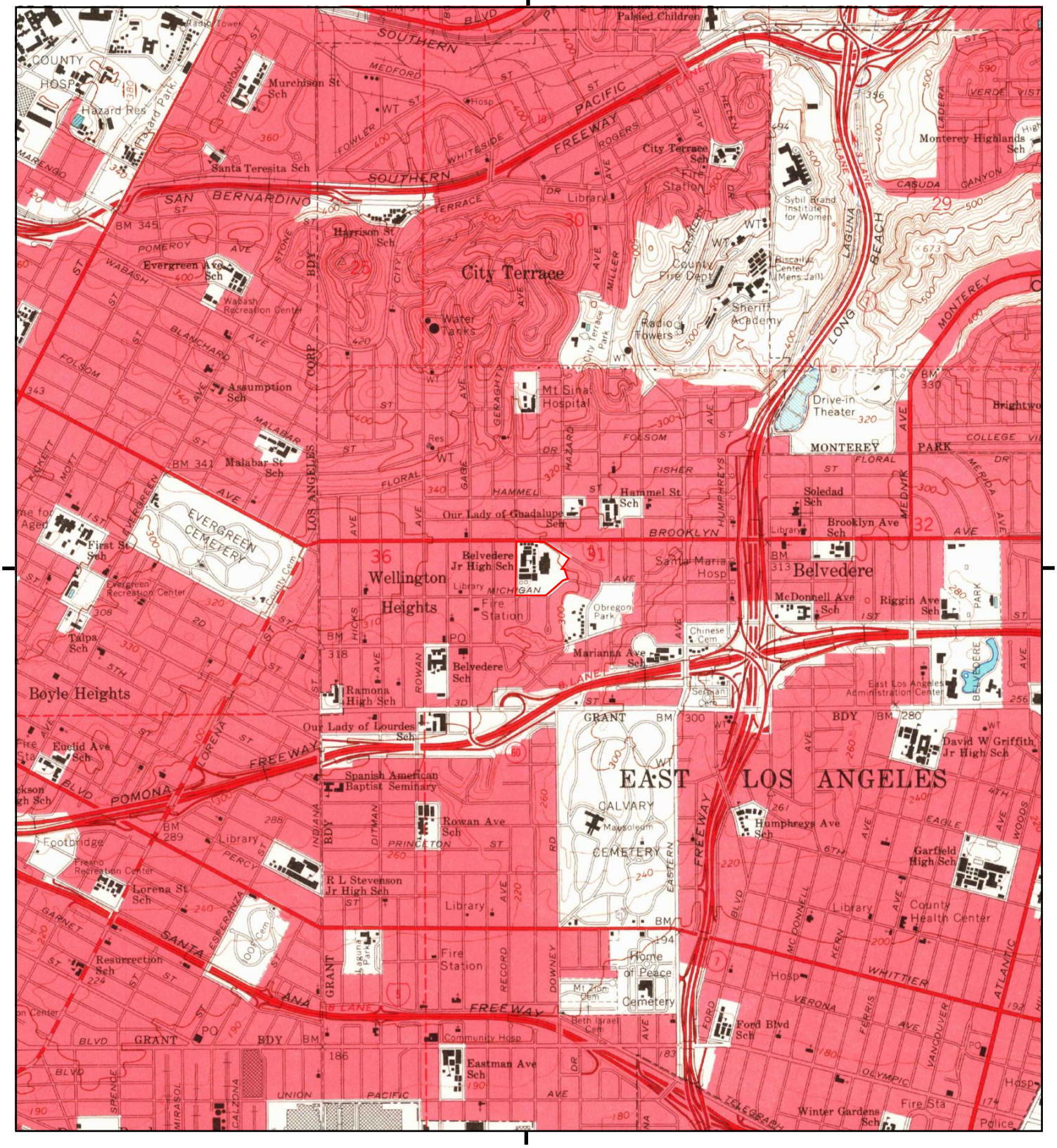
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Los Angeles, 1972, 7.5-minute

SITE NAME: Belvedere Middle School
ADDRESS: 312 N Record Avenue
Los Angeles, CA 90063
CLIENT: Tetra Tech, Inc.

N



This report includes information from the following map sheet(s).

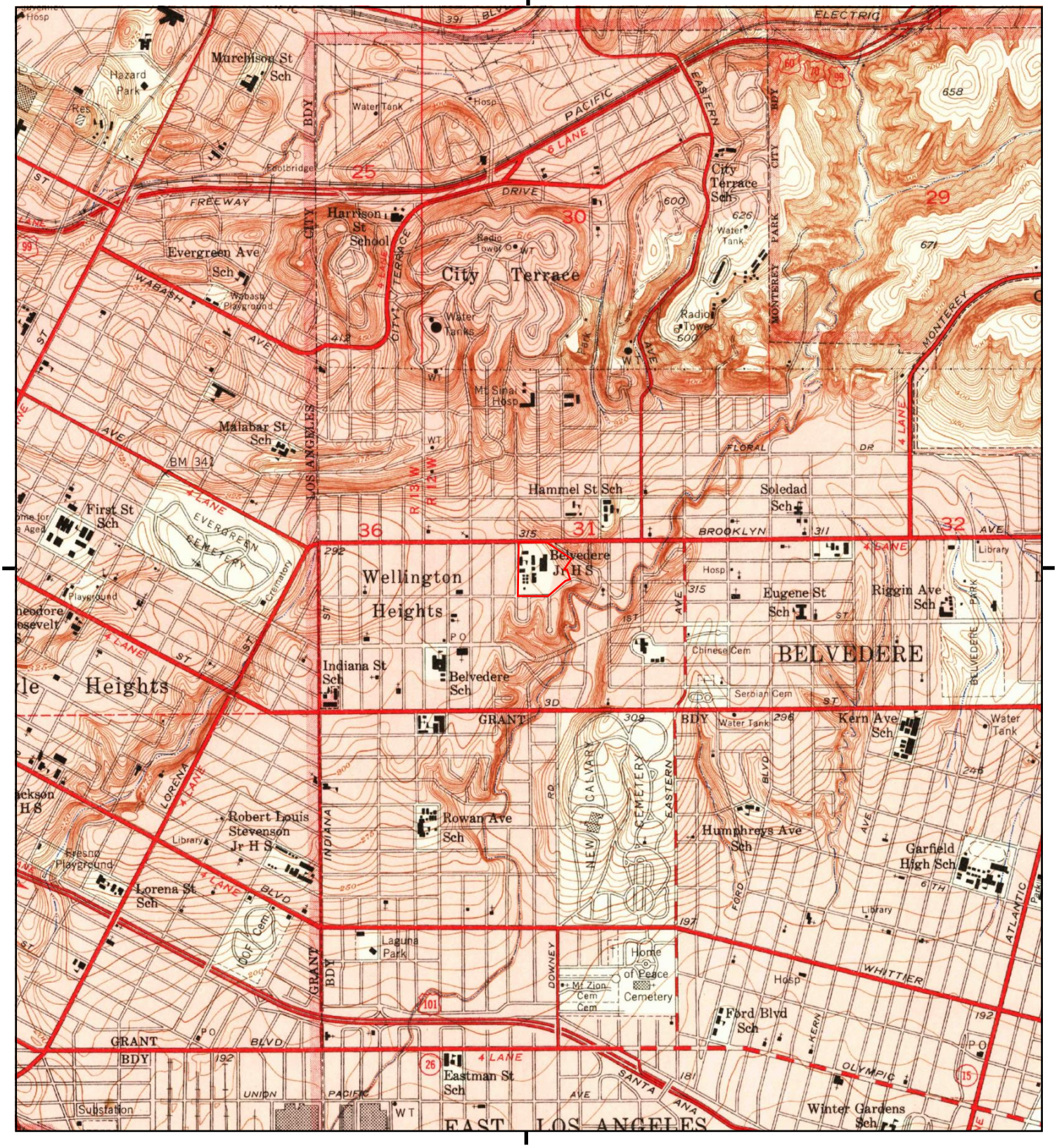
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Los Angeles, 1966, 7.5-minute

SITE NAME: Belvedere Middle School
ADDRESS: 312 N Record Avenue
Los Angeles, CA 90063
CLIENT: Tetra Tech, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

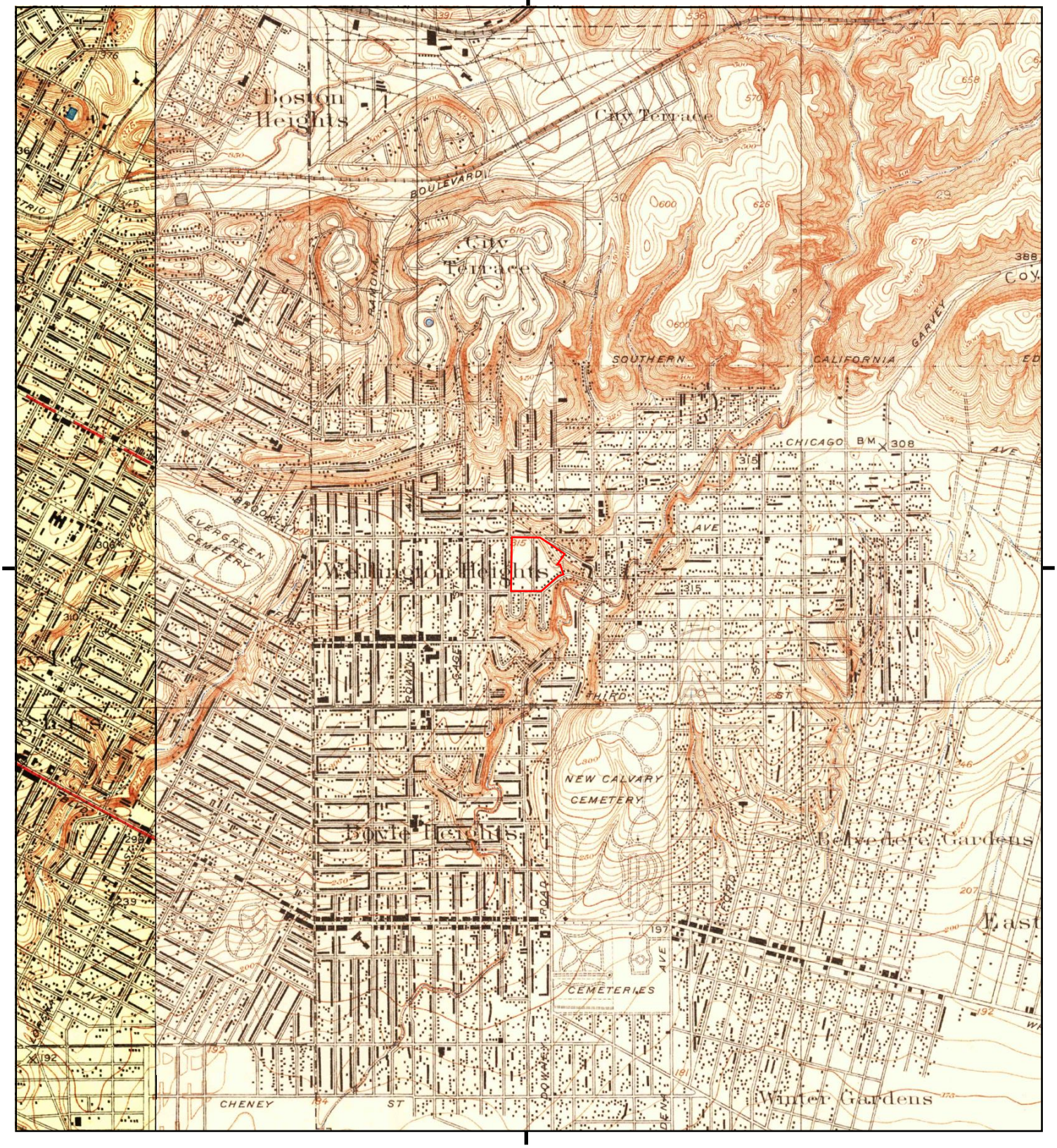
TP, Los Angeles, 1953, 7.5-minute

SITE NAME: Belvedere Middle School
ADDRESS: 312 N Record Avenue
Los Angeles, CA 90063
CLIENT: Tetra Tech, Inc.

N

Historical Topo Map

1926, 1928



This report includes information from the following map sheet(s).

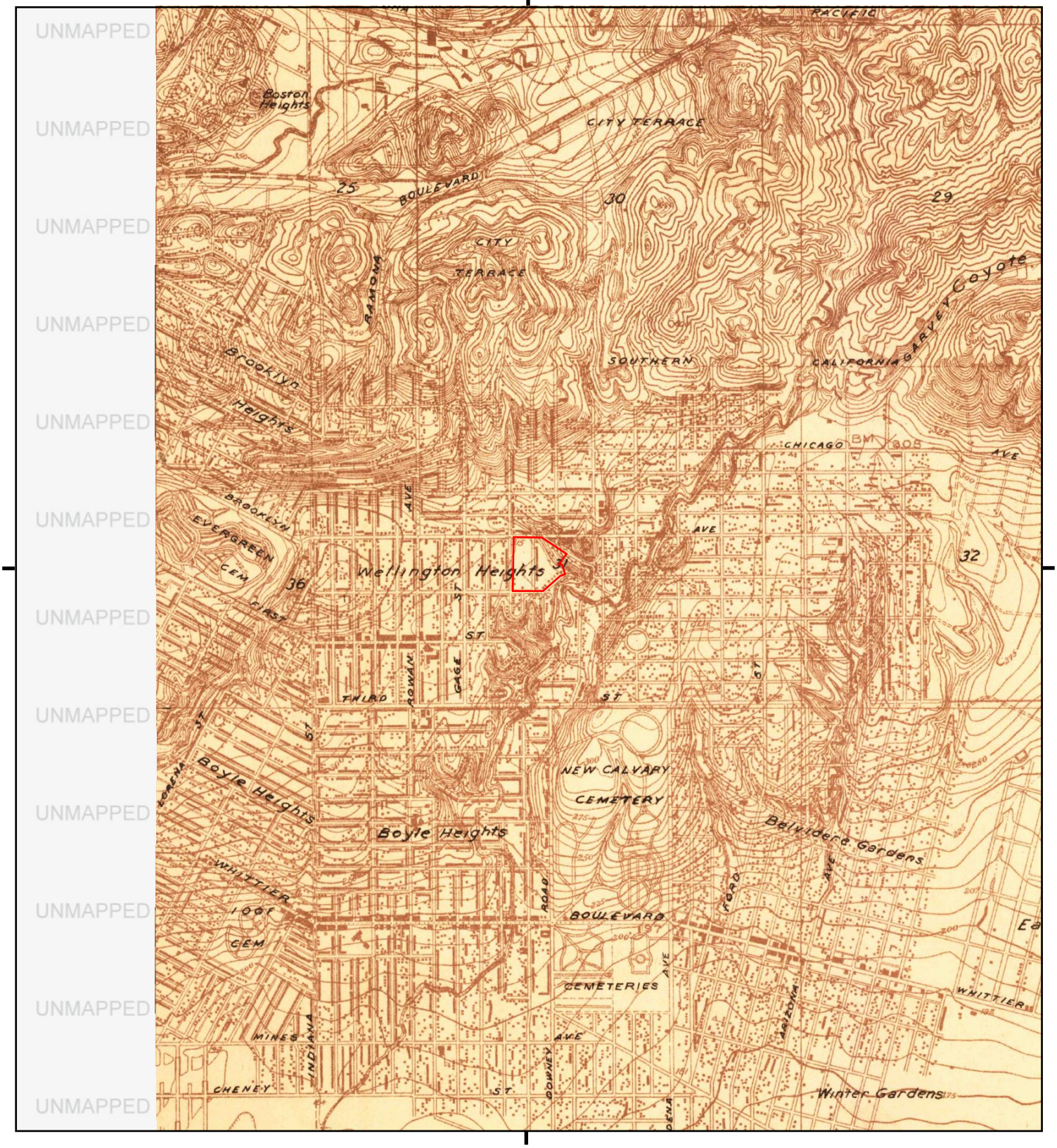
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Alhambra, 1926, 7.5-minute
W, Los Angeles, 1928, 7.5-minute

SITE NAME: Belvedere Middle School
ADDRESS: 312 N Record Avenue
Los Angeles, CA 90063
CLIENT: Tetra Tech, Inc.

N



This report includes information from the following map sheet(s).

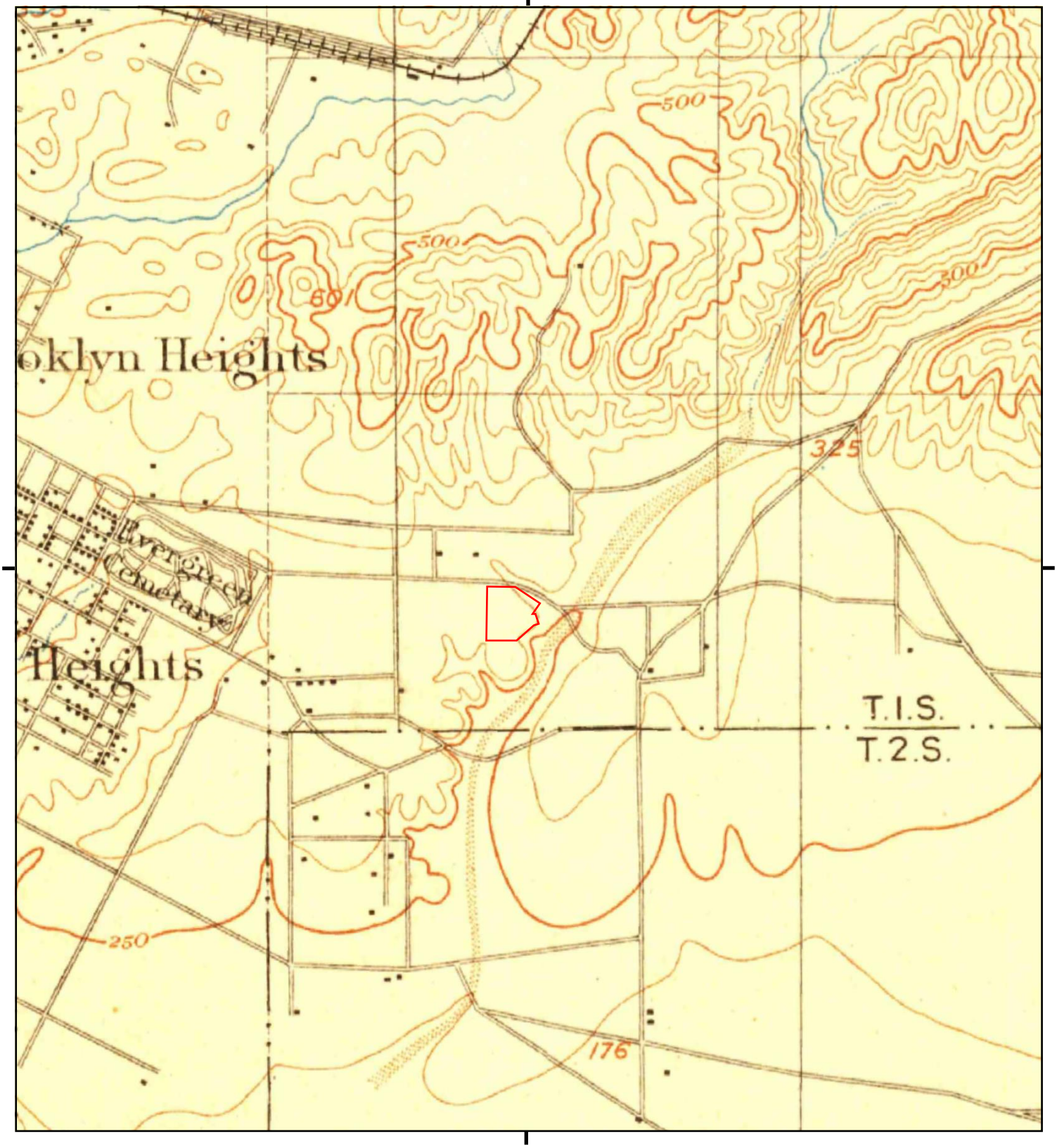
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Alhambra, 1924, 7.5-minute

SITE NAME: Belvedere Middle School
ADDRESS: 312 N Record Avenue
Los Angeles, CA 90063
CLIENT: Tetra Tech, Inc.

N



This report includes information from the following map sheet(s).

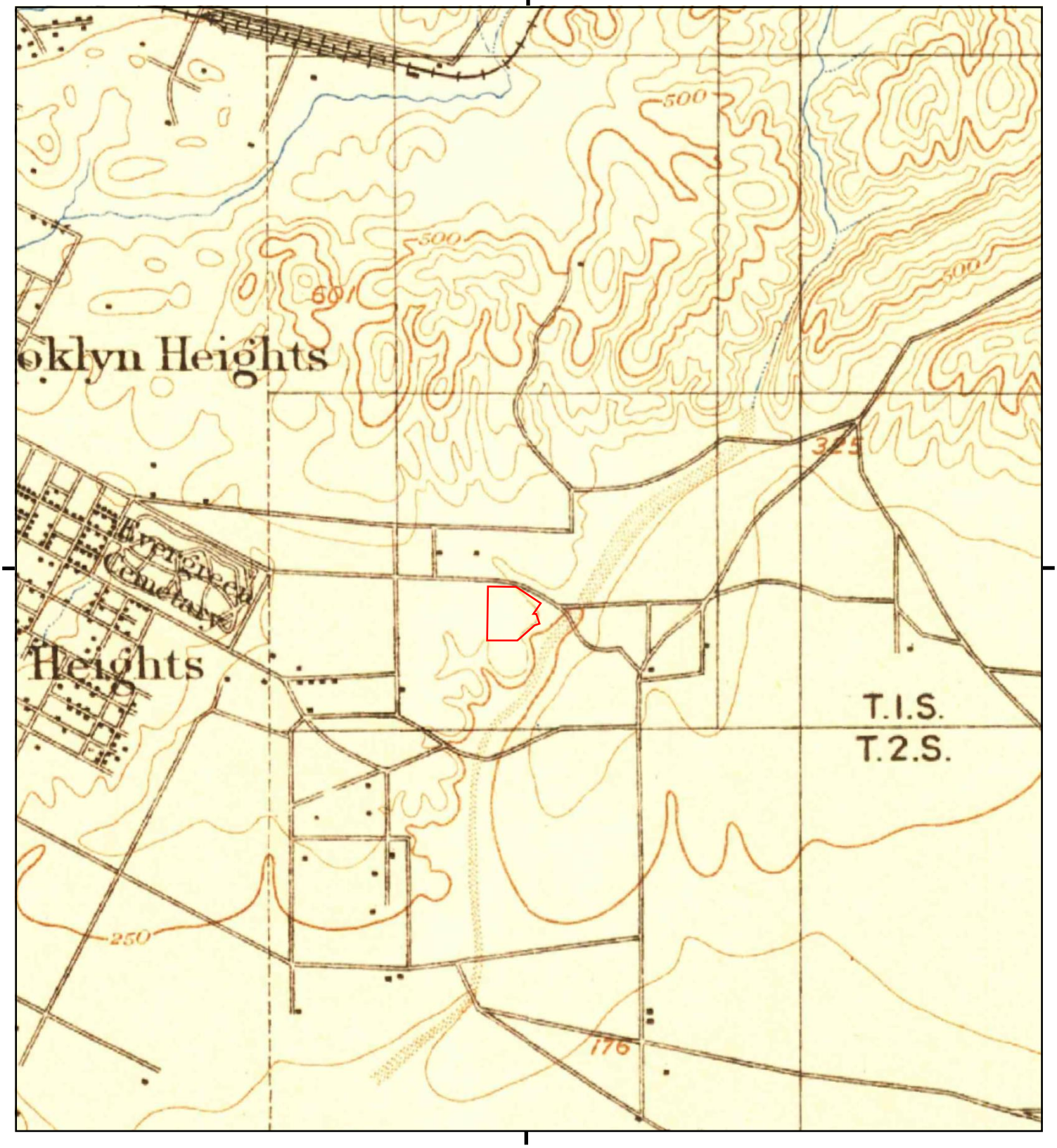
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pasadena, 1900, 15-minute
TP, Los Angeles, 1900, 15-minute

SITE NAME: Belvedere Middle School
ADDRESS: 312 N Record Avenue
Los Angeles, CA 90063
CLIENT: Tetra Tech, Inc.

N



This report includes information from the following map sheet(s).

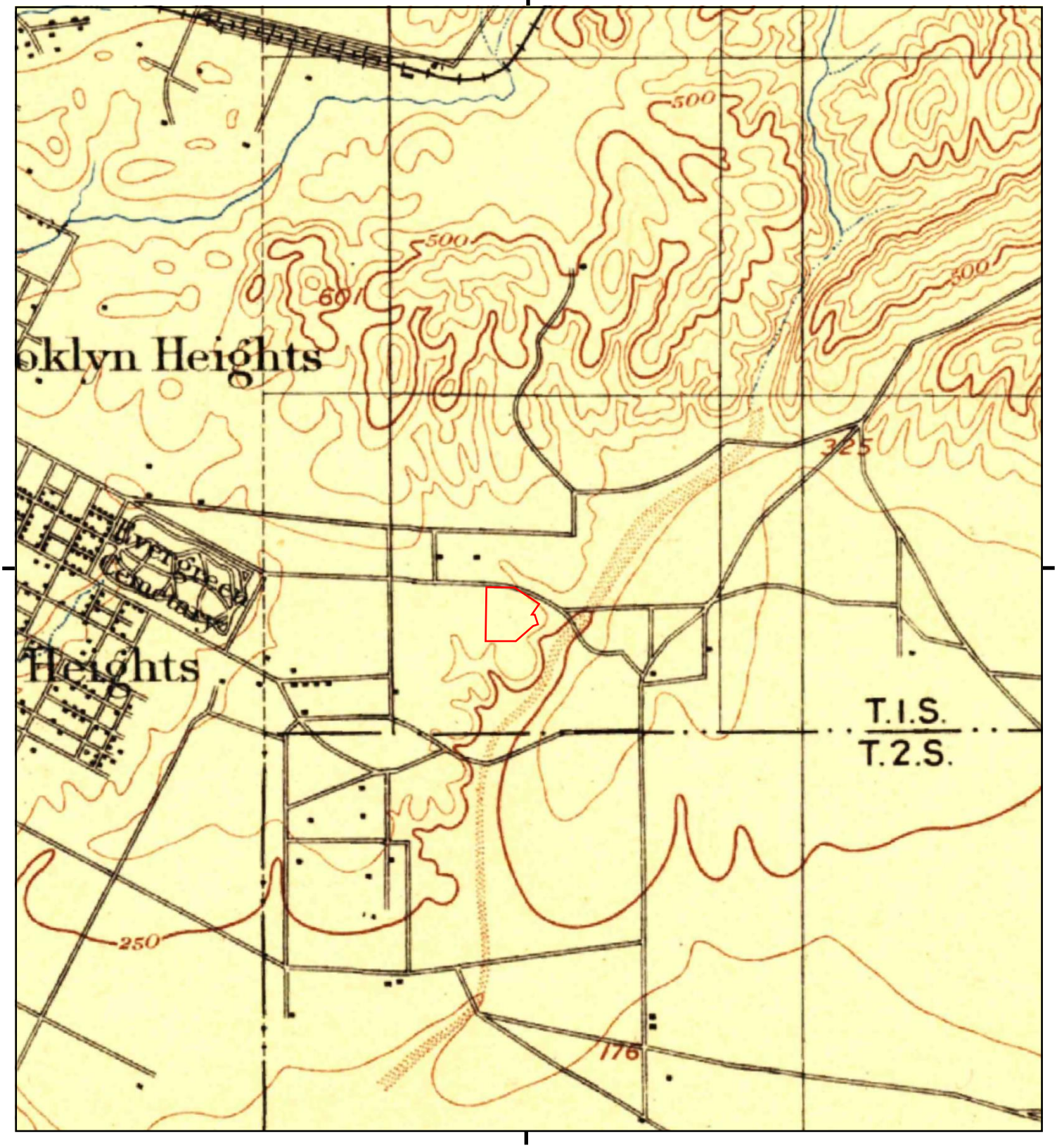
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pasadena, 1896, 15-minute

SITE NAME: Belvedere Middle School
ADDRESS: 312 N Record Avenue
Los Angeles, CA 90063
CLIENT: Tetra Tech, Inc.

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Los Angeles, 1894, 15-minute

SITE NAME: Belvedere Middle School
ADDRESS: 312 N Record Avenue
Los Angeles, CA 90063
CLIENT: Tetra Tech, Inc.

N

Belvedere Middle School
312 N Record Avenue
Los Angeles, CA 90063

Inquiry Number: 4976340.3
June 26, 2017

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

06/26/17

Site Name:

Belvedere Middle School
312 N Record Avenue
Los Angeles, CA 90063
EDR Inquiry # 4976340.3

Client Name:

Tetra Tech, Inc.
301 Vanderbilt Way
San Bernardino, CA 92408
Contact: Vanessa Calder

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Tetra Tech, Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 7128-48FD-A223

PO # 100-HMG-T37254.01

Project Belvedere Middle School

Maps Provided:

1970
1949
1921

Sanborn® Library search results

Certification #: 7128-48FD-A223

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1970 Source Sheets



Volume 14, Sheet 1499j

1949 Source Sheets

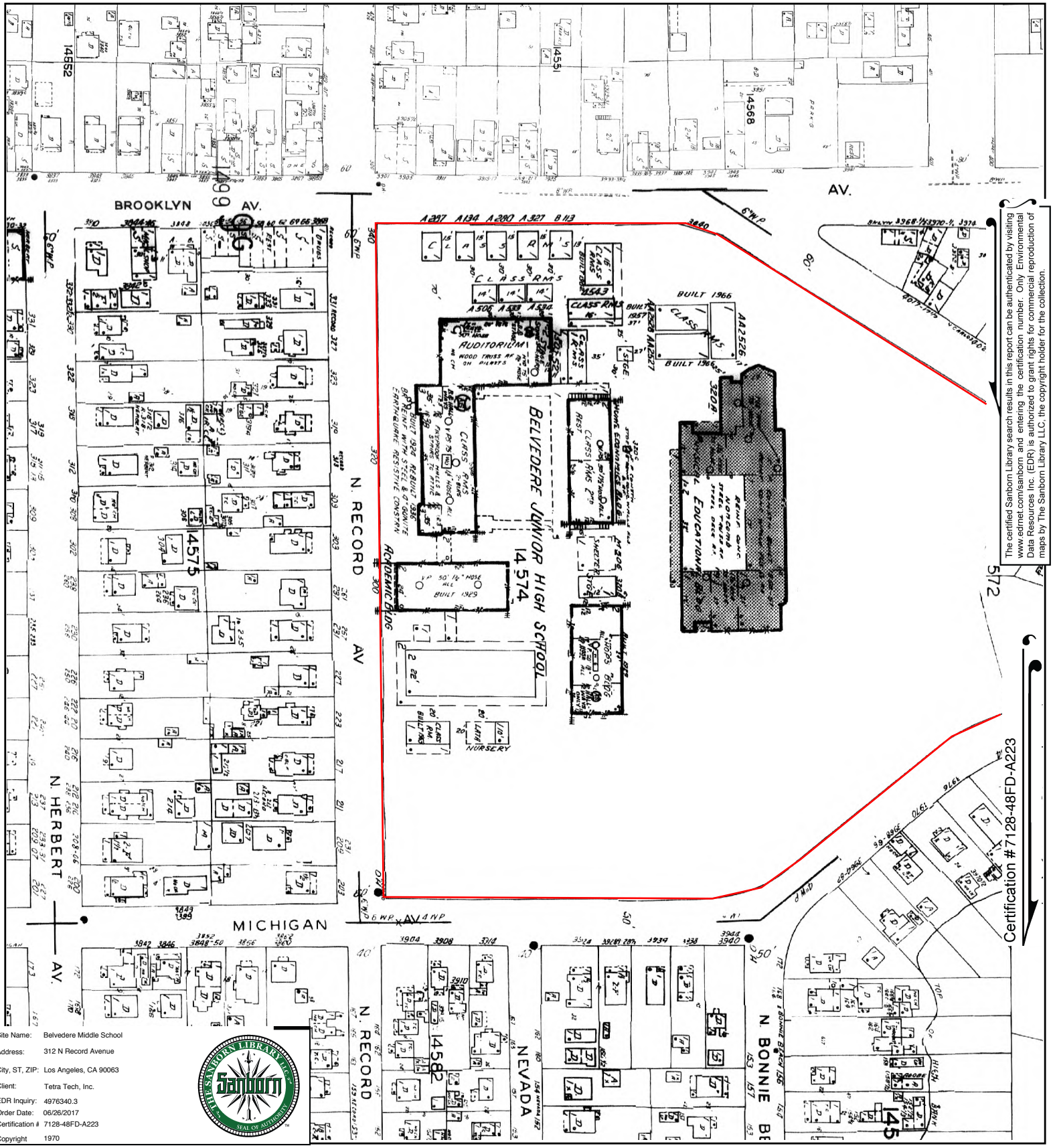


Volume 14, Sheet 1499j

1921 Source Sheets



Volume 14, Sheet 1499j



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Site Name:	Belvedere Middle School
Address:	312 N Record Avenue
City, ST, ZIP:	Los Angeles, CA 90063
Client:	Tetra Tech, Inc.
EDR Inquiry:	4976340.3
Order Date:	06/26/2017
Certification #	7128-48FD-A223
Copyright	1970

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

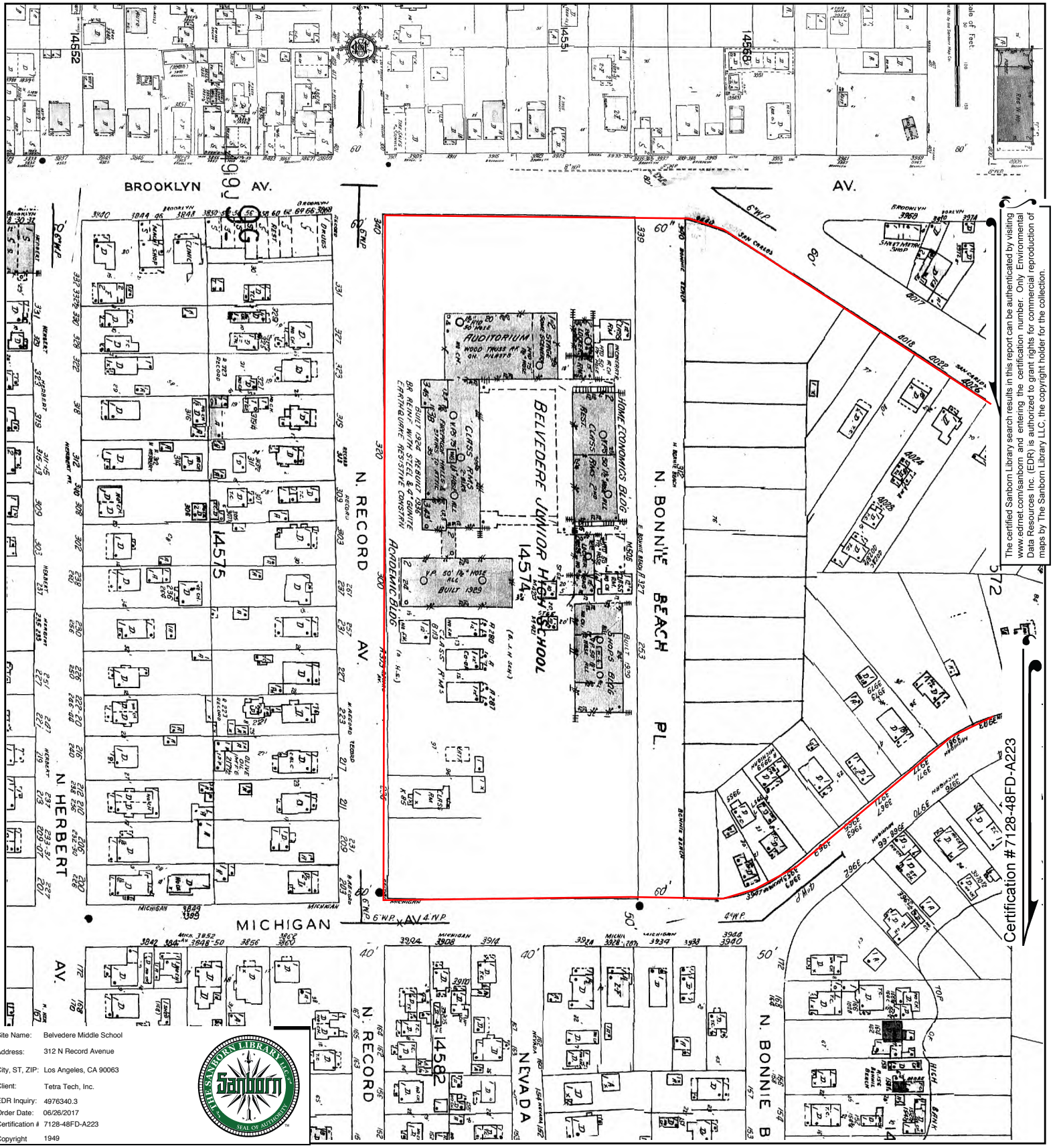
Volume 14, Sheet 1499j

1499j

N

Certified Sanborn® Map

1949



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Certification #	7128-48FD-A223
Copyright	1949

This Certified Sanborn Map combines the following sheets.
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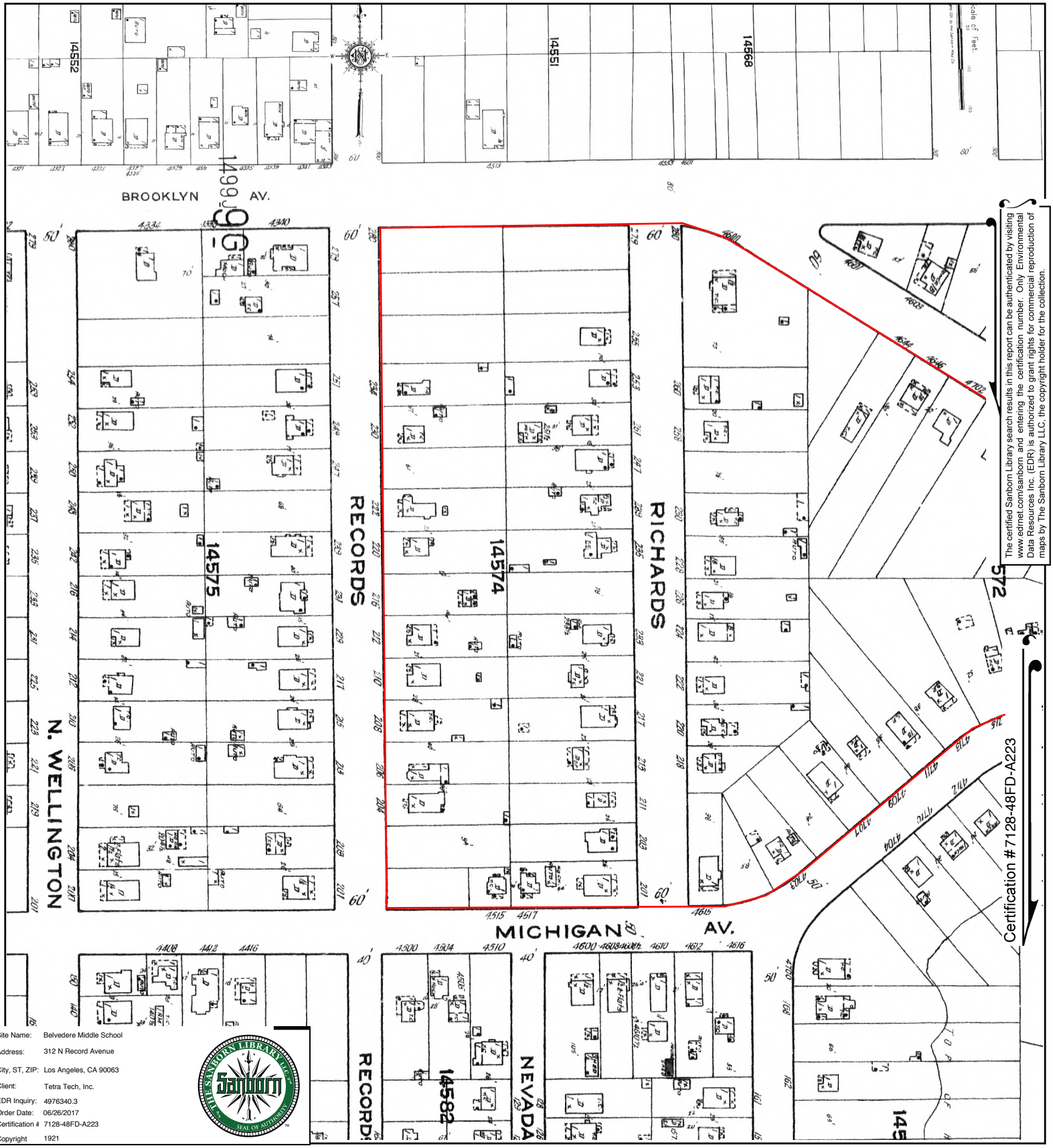
0 Feet 150 300 600

Volume 14, Sheet 1499j

1499j

N



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Site Name:	Belvedere Middle School
Address:	312 N Record Avenue
City, ST, ZIP:	Los Angeles, CA 90063
Client:	Tetra Tech, Inc.
EDR Inquiry:	4976340.3
Order Date:	06/26/2017
Certification #	7128-48FD-A223
Copyright	1921

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

0 Feet 150 300 600

Volume 14, Sheet 1499j

1499j

APPENDIX E EDR CITY DIRECTORY REPORT

Belvedere Middle School
312 N Record Avenue
Los Angeles, CA 90063

Inquiry Number: 4976340.5
June 26, 2017

The EDR-City Directory Abstract

Environmental Data Resources Inc
6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 332 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2006	Haines Company, Inc.	X	X	X	-
2004	Haines Company	-	-	-	-
2003	Haines & Company	-	-	-	-
2001	Haines Company, Inc.	-	-	-	-
2000	Haines & Company	-	X	X	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	-	X	X	-
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1990	Pacific Bell	-	X	X	-
1986	Pacific Bell	X	X	X	-
1985	Pacific Bell	-	-	-	-
1981	Pacific Telephone	-	X	X	-
1980	Pacific Telephone	-	-	-	-
1976	Pacific Telephone	X	X	X	-
1975	Pacific Telephone	-	-	-	-
1972	R. L. Polk & Co.	-	-	-	-
1971	Pacific Telephone	-	X	X	-
1970	Pacific Telephone	-	-	-	-
1969	Pacific Telephone	-	-	-	-
1967	R. L. Polk & Co.	-	-	-	-
1966	Pacific Telephone	-	-	-	-
1965	GTE	-	-	-	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	-	-	-	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1958	Pacific Telephone	-	X	X	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	-	-	-	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Pacific Telephone & Telegraph Co.	X	X	X	-
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.	X	X	X	-
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.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

312 N Record Avenue
Los Angeles, CA 90063

FINDINGS DETAIL

Target Property research detail.

N Record Ave

312 N Record Ave

Year	Uses	Source
2014	KIPP SOL ACADEMY SITE 2	EDR Digital Archive
	LOS ANGELES UNIFIED SCHOOL DST	EDR Digital Archive
2010	LOS ANGELES UNIFIED SCHL DIST	EDR Digital Archive

N RECORD AVE

312 N RECORD AVE

Year	Uses	Source
2006	BELVEDERE JR Hi	Haines Company, Inc.
1986	BELVEDERE JR HIGH SCHOOL	Pacific Bell
1976	Belvedere Jr High School	Pacific Telephone
1942	Belvedere Junior High School	Los Angeles Directory Co.

RECORD AVE N

312 RECORD AVE N

Year	Uses	Source
1951	N Record Av Los Angeles City Board of Education jr high schls Belvedere	Pacific Telephone & Telegraph Co.
	N Recrd Av Pinner Arthur Jr	Pacific Telephone & Telegraph Co.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

N HERBERT AVE

302 N HERBERT AVE

Year	Uses	Source
2006	OSEGURA Bertha	Haines Company, Inc.
1976	Oceguera Jerry	Pacific Telephone

304 N HERBERT AVE

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1971	Rodriguez Ramon	Pacific Telephone
	Rodriguez Fortunata	Pacific Telephone
1958	Martinez Robt	Pacific Telephone

306 N HERBERT AVE

Year	Uses	Source
1942	Rodarte Robt Marjorie	Los Angeles Directory Co.

308 N HERBERT AVE

Year	Uses	Source
1942	GUTIERREZ Wm G Nellie slsmn	Los Angeles Directory Co.

310 N HERBERT AVE

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1971	Preciado Ignacio	Pacific Telephone
1942	MOLINA Mary Mrs	Los Angeles Directory Co.

312 N HERBERT AVE

Year	Uses	Source
1958	Saavedra Paul H	Pacific Telephone
1942	La Brada Ignacio Ambrosia	Los Angeles Directory Co.

314 N HERBERT AVE

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.

FINDINGS

316 N HERBERT AVE

Year	Uses	Source
1942	Basques Consuelo fctywkr	Los Angeles Directory Co.
	Basques Nick Amelia	Los Angeles Directory Co.

318 N HERBERT AVE

Year	Uses	Source
2006	ARELLANESLucila	Haines Company, Inc.
1990	MARTINEZ FEDERICO G	Pacific Bell
	MARTINEZ ANBARO	Pacific Bell
1986	MARTINEZ ANBARO	Pacific Bell
	MARTINEZ FEDERICO G	Pacific Bell
1981	MARTINEZ ANBARO	Pacific Telephone
	MARTINEZ FEDERICO G	Pacific Telephone
1976	Martinez Anbaro	Pacific Telephone
	Martinez Federico G	Pacific Telephone
	Martinez Raymond	Pacific Telephone
1971	Martinez Anbaro	Pacific Telephone
	Martinez Federico G	Pacific Telephone

322 N HERBERT AVE

Year	Uses	Source
2006	Juana	Haines Company, Inc.
	VELAZOUEZJose	Haines Company, Inc.
	LEDESMAJose	Haines Company, Inc.
	GOMEZ Francisco	Haines Company, Inc.
	ARACELIVELASQU	Haines Company, Inc.
1990	ANDRADE PORFIRIO	Pacific Bell
1986	SALGADO MAGDELENA	Pacific Bell
1981	ALVAREZ NICK	Pacific Telephone
1976	Alvarez Richard R	Pacific Telephone
1958	Mata Olga	Pacific Telephone
1942	Loera David Josephine uphol	Los Angeles Directory Co.

328 N HERBERT AVE

Year	Uses	Source
2006	Javier	Haines Company, Inc.
	V/ LOPEZ Frandcisco	Haines Company, Inc.
	RODRIGUEZ Frandso	Haines Company, Inc.
	BAEZA Maria G	Haines Company, Inc.

FINDINGS

Year	Uses	Source
2006	RICO Jose	Haines Company, Inc.
1971	Villegas Antonio H	Pacific Telephone
1942	Pimental Maria wid A F	Los Angeles Directory Co.
	QUICK Geo	Los Angeles Directory Co.

330 N HERBERT AVE

Year	Uses	Source
2006	MONZON Frandcsco	Haines Company, Inc.
1942	CHAVEZ Paul Venice	Los Angeles Directory Co.

332 N HERBERT AVE

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1981	GARCIA PEDRO M	Pacific Telephone
1976	Gonzalez Jose D	Pacific Telephone
1971	Gonzalez Jose D	Pacific Telephone
	Salgado Manuel	Pacific Telephone
1942	Eillano Tony bartndr	Los Angeles Directory Co.

311 1/2 N HERBERT AVE

Year	Uses	Source
1981	ALVAREZ MARIA	Pacific Telephone

N RECORD AVE

235 N RECORD AVE

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1990	MUNOZ MIGUEL	Pacific Bell

N Record Ave

237 N Record Ave

Year	Uses	Source
2014	STICKY	EDR Digital Archive

N RECORD AVE

237 N RECORD AVE

Year	Uses	Source
2006	o AHRENS RIlchard	Haines Company, Inc.

FINDINGS

Year	Uses	Source
1990	AVILES LUPE	Pacific Bell
	ESPARZA DENISE	Pacific Bell
1986	AVILES LUPE	Pacific Bell
1981	AVILES LUPE	Pacific Telephone
1976	Aviles Alberto	Pacific Telephone
1942	MORENO Edw fctywkr	Los Angeles Directory Co.
	Coronado Armida fctywkr	Los Angeles Directory Co.
	Coronado Pasquale fctywkr	Los Angeles Directory Co.
	MORENO Augustina wid Jesus	Los Angeles Directory Co.
	MORENO Charlotte F	Los Angeles Directory Co.

259 N RECORD AVE

Year	Uses	Source
1995	VERA CUSTOM DRAPERIES & INTERIORS 3 VERA DAVID	Pacific Bell

303 N RECORD AVE

Year	Uses	Source
2006	ZAMORAAdolfo	Haines Company, Inc.
1995	REAGANBOBBYM	Pacific Bell
1958	Swedo Elizabeth	Pacific Telephone
1942	Swedo Raymond uphol	Los Angeles Directory Co.
	Swedo Edw P Kath uphol	Los Angeles Directory Co.
	Swedo Leo W uphol	Los Angeles Directory Co.
	Swedo peter Eliz meat ctr	Los Angeles Directory Co.
	Swedo Virginia clk	Los Angeles Directory Co.

307 N RECORD AVE

Year	Uses	Source
2006	GONZALES Enrique V	Haines Company, Inc.
	GONZALEZi Ignaco	Haines Company, Inc.
1990	GONZALES ENRIQUE V	Pacific Bell
1986	GONZALES ENRIQUE V	Pacific Bell
1981	GONZALES ENRIQUE V	Pacific Telephone
1976	Gonzales Enrique V	Pacific Telephone

309 N RECORD AVE

Year	Uses	Source
2006	GONZALEZGabrlela	Haines Company, Inc.
1976	Gonzalez Alberto	Pacific Telephone

FINDINGS

Year	Uses	Source
1942	CRAIG Ernest L Agnes ydmn UPRR Co	Los Angeles Directory Co.

311 N RECORD AVE

Year	Uses	Source
2006	JURADOGeorge M	Haines Company, Inc.
1942	CHAVEZ Micaele wid Pasqual	Los Angeles Directory Co.

313 N RECORD AVE

Year	Uses	Source
2006	JURADO Tony C	Haines Company, Inc.
1990	JURADO TONY C	Pacific Bell
1986	JURADO TONY C	Pacific Bell
1981	JURADO TONY C	Pacific Telephone
1976	Jurado Tony C	Pacific Telephone
1942	Martines Sophie B Mrs nurse	Los Angeles Directory Co.

319 N RECORD AVE

Year	Uses	Source
2006	CHAVEZ Arnelia	Haines Company, Inc.
1942	Cuthbertson Josephine wid Robt bkpr H R Henze	Los Angeles Directory Co.
	Henze Herman R Eva M ironwks	Los Angeles Directory Co.
	Henze Richd K mech	Los Angeles Directory Co.

320 N RECORD AVE

Year	Uses	Source
1958	Olivarez Pearl	Pacific Telephone

321 N RECORD AVE

Year	Uses	Source
2006	CASTILLOVanessa	Haines Company, Inc.
	LOPEZJaver	Haines Company, Inc.

323 N RECORD AVE

Year	Uses	Source
2006	o GRACIAGuadalupe	Haines Company, Inc.
1942	Kirkman Mary researchwkr WPA	Los Angeles Directory Co.

325 N RECORD AVE

Year	Uses	Source
2006	o SANCHEZEli M	Haines Company, Inc.

FINDINGS

Year	Uses	Source
1990	LOMAS JUAN	Pacific Bell
1942	Cariker Geo W Frances sta atdt	Los Angeles Directory Co.

327 N RECORD AVE

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1976	Castillo David	Pacific Telephone
1942	Duce Alice A smstrs	Los Angeles Directory Co.
	Duce Mary wid Walter	Los Angeles Directory Co.

329 N RECORD AVE

Year	Uses	Source
2006	MARTINEZ Esther	Haines Company, Inc.
1976	Corella Robt	Pacific Telephone

331 N RECORD AVE

Year	Uses	Source
2006	HEDDEN Ralph	Haines Company, Inc.
	CASTILLO Belinda	Haines Company, Inc.
1990	MARTINEZ NARCISO	Pacific Bell
1986	MARTINEZ NARCISO	Pacific Bell
1981	MARTINEZ NARCISO	Pacific Telephone
1976	Martinez Narciso	Pacific Telephone
1942	PRESTON Frank Anna slsmn	Los Angeles Directory Co.

333 N RECORD AVE

Year	Uses	Source
2006	No Current Listing	Haines Company, Inc.
1986	CASTILLO DAVID	Pacific Bell

307 1/2 N RECORD AVE

Year	Uses	Source
1990	ORNELAS RAMON	Pacific Bell

RECORD AVE

235 RECORD AVE

Year	Uses	Source
2000	XXXX	Haines & Company

FINDINGS

237 RECORD AVE

Year	*Uses*	*Source*
2000	AVILES Albert	Haines & Company

RECORD AVE N

303 RECORD AVE N

Year	*Uses*	*Source*
1951	N Recrd Av Swedo Elizabeth r	Pacific Telephone & Telegraph Co.

309 RECORD AVE N

Year	*Uses*	*Source*
1951	N Recrd Av Alarcon John F r	Pacific Telephone & Telegraph Co.

311 RECORD AVE N

Year	*Uses*	*Source*
1951	N Recrd Av Giron Antonia r	Pacific Telephone & Telegraph Co.

319 RECORD AVE N

Year	*Uses*	*Source*
1951	N Record Av Henze Herman R r	Pacific Telephone & Telegraph Co.

325 RECORD AVE N

Year	*Uses*	*Source*
1951	N Recrd Espinosa Anita r	Pacific Telephone & Telegraph Co.

331 RECORD AVE N

Year	*Uses*	*Source*
1951	N Recrd Av Martinez Narciso r	Pacific Telephone & Telegraph Co.

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
312 N Record Avenue	2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
235 N RECORD AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 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
235 RECORD AVE	2014, 2010, 2006, 2004, 2003, 2001, 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
237 N RECORD AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 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, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
237 N Record Ave	2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
237 RECORD AVE	2014, 2010, 2006, 2004, 2003, 2001, 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
259 N RECORD AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
302 N HERBERT AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
303 N RECORD AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
303 RECORD AVE N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
304 N HERBERT AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
306 N HERBERT AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
307 1/2 N RECORD AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 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
307 N RECORD AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 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
308 N HERBERT AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
309 N RECORD AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 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, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
309 RECORD AVE N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
310 N HERBERT AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
311 1/2 N HERBERT AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
311 N RECORD AVE	2014, 2010, 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, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
311 RECORD AVE N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
312 N HERBERT AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
313 N RECORD AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 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, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
314 N HERBERT AVE	2014, 2010, 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
316 N HERBERT AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
318 N HERBERT AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
319 N RECORD AVE	2014, 2010, 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, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
319 RECORD AVE N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
320 N RECORD AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
321 N RECORD AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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323 N RECORD AVE	2014, 2010, 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, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
325 N RECORD AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 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, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
325 RECORD AVE N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
327 N RECORD AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 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, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
328 N HERBERT AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
329 N RECORD AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 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
330 N HERBERT AVE	2014, 2010, 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, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
331 N RECORD AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1985, 1980, 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, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
331 RECORD AVE N	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
332 N HERBERT AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1980, 1975, 1972, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

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Address Researched	Address Not Identified in Research Source
333 N RECORD AVE	2014, 2010, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 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

APPENDIX F EDR BUILDING PERMIT REPORT

Belvedere Middle School
312 N Record Avenue
Los Angeles, CA 90063

Inquiry Number: 4976340.8
June 26, 2017

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILDFAX® PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Tetra Tech, Inc. on Jun 26, 2017.

TARGET PROPERTY

312 N Record Avenue
Los Angeles, CA 90063

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Los Angeles County

Year	*Source*	*TP*	*Adjoining*
2017	Los Angeles County, Building and Safety		X
2016	Los Angeles County, Building and Safety		X
2015	Los Angeles County, Building and Safety		X
2014	Los Angeles County, Building and Safety		
2013	Los Angeles County, Building and Safety		
2012	Los Angeles County, Building and Safety		X
2011	Los Angeles County, Building and Safety		X
2010	Los Angeles County, Building and Safety		X
2009	Los Angeles County, Building and Safety		X
2008	Los Angeles County, Building and Safety		X
2007	Los Angeles County, Building and Safety		X
2006	Los Angeles County, Building and Safety		X
2005	Los Angeles County, Building and Safety		X
2004	Los Angeles County, Building and Safety		X
2003	Los Angeles County, Building and Safety		X
2002	Los Angeles County, Building and Safety		X
2001	Los Angeles County, Building and Safety		X
2000	Los Angeles County, Building and Safety		X
1999	Los Angeles County, Building and Safety		X
1998	Los Angeles County, Building and Safety		X
1997	Los Angeles County, Building and Safety		X
1996	Los Angeles County, Building and Safety		X
1995	Los Angeles County, Building and Safety		X
1994	Los Angeles County, Building and Safety		X
1993	Los Angeles County, Building and Safety		
1992	Los Angeles County, Building and Safety		
1991	Los Angeles County, Building and Safety		
1990	Los Angeles County, Building and Safety		

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

Year	Source	TP	Adjoining
1989	Los Angeles County, Building and Safety		
1988	Los Angeles County, Building and Safety		

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Los Angeles County
Years: 1988-2017
Source: Los Angeles County, Building and Safety, LOS ANGELES, CA
Phone: (626) 458-6368

Name: Adelanto
Years: 2012-2016
Source: City of Adelanto, Building and Safety, ADELANTO, CA
Phone: (760) 246-2300 x 305

Name: Arcadia
Years: 1988-2011
Source: City of Arcadia, Building Services Division, ARCADIA, CA
Phone: (626) 574-5455

Name: Brentwood
Years: 1998-2016
Source: City of Brentwood, Building and Code Enforcement, BRENTWOOD, CA
Phone: (925) 516-5405

Name: Burbank
Years: 1970-2015
Source: City of Burbank, Building Division, BURBANK, CA
Phone: (818) 238-5220

Name: Gardena
Years: 1990-2017
Source: City of Gardena, Community Development, GARDENA, CA
Phone: (310) 217-9530

Name: Hemet
Years: 1989-2016
Source: City of Hemet, Building and Safety, HEMET, CA
Phone: (951) 765-2475

Name: Lakewood
Years: 1988-2014
Source: City of Lakewood, Community Development Department, LAKEWOOD, CA
Phone: (562) 866-9771 x 235

Name: Los Angeles
Years: 1988-2017
Source: City of Los Angeles, Department of Building and Safety, LOS ANGELES, CA
Phone: (213) 482-6800

Name: Lynwood
Years: 2009-2015
Source: City of Lynwood, Development Services, LYNWOOD, CA
Phone: (310) 603-0220

Name: Pasadena
Years: 1985-2017
Source: City of Pasadena, Permit Center, PASADENA, CA
Phone: (626) 744-6646

Name: Pittsburg
Years: 2012-2016
Source: City of Pittsburg, Devel Services, Building Division, PITTSBURG, CA
Phone: (925) 252-4910

Name: Redding
Years: 1987-2017
Source: City of Redding, Development Services, Building Division, Redding, CA
Phone: 530-225-4014

Name: Rialto
Years: 2000-2012
Source: City of Rialto, Building and Safety, RIALTO, CA
Phone: (909) 820-2505

Name: San Bernardino County
Years: 2002-2017
Source: San Bernardino County, Land Use, Building & Safety, San Bernardino, CA
Phone: (909) 387-8311

Name: Santa Monica
Years: 1979-2017
Source: City of Santa Monica, Building and Safety, Santa Monica, CA
Phone: (310) 458-8355

Name: Tulare County
Years: 2000-2016
Source: Tulare County, Community and Development Services Branch, VISALIA, CA
Phone: (559) 624-7100

Name: Vacaville
Years: 1989-2017
Source: City of Vacaville, Building Permits, VACAVILLE, CA
Phone: (707) 449-5152

Name: Oakland
Years: 1968-2017
Source: City of Oakland,Building Services Division, OAKLAND, CA
Phone: (510) 238-3891

Name: San Rafael
Years: 1999-2017
Source: City of San Rafael, Code Enforcement, SAN RAFAEL, CA
Phone: (415) 485-3097

Name: Norwalk
Years: 2002-2016
Source: City of Norwalk, Community Development, Building and Safety Division, Norwalk, CA
Phone: (562) 929-5733

Name: Huntington Beach
Years: 1996-2017
Source: Huntington Beach, Dept. of Building and Safety, HUNTINGTON BEACH, CA
Phone: (714) 536-5241

Name: Huntington Park
Years: 2008-2016
Source: City of Huntington Park, public works, Building & Safety, HUNTINGTON PARK, CA
Phone: (323) 584-6271

Name: Alhambra
Years: 2000-2016
Source: City of Alhambra, Building Services, ALHAMBRA, CA
Phone: 626-570-5034

Name: Inglewood
Years: 1991-2016
Source: City of Inglewood, Planning Division, INGLEWOOD, CA
Phone: (310) 412-5230

Name: Culver City
Years: 1990-2012
Source: Culver City, Community Development Department, CULVER CITY, CA
Phone: (310) 253-5800

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

312 N Record Avenue
Los Angeles, CA 90063

No Permits Found

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

E CESAR E CHAVEZ AVE

3809 E CESAR E CHAVEZ AVE

Date:	**3/3/2003**
Permit Type:	**EL**
Description:	**2 LAUNDRY MACHINES/ 1 (100 AMP SERVICE)**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0303030003
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	T - CONSTRUCTION

Date:	**3/3/2003**
Permit Type:	**PL**
Description:	**2 CLOTHES WASHER, 2 DRAINAGE VENT. 2 WATER LINES**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0303030003
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	T - CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **11/13/2001**
Permit Type: **EL**
Description: **CHANGING OUT LIGHT FIXTURES**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0111130008
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: S AND S ELECTRIC

3813 E CESAR E CHAVEZ AVE

Date: **11/3/1994**
Permit Type: **ME**
Description: **KITCHEN HOOD**

Permit Description: **MECHANICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9411030009
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: *

Date: **9/12/1994**
Permit Type: **PL**
Description: **PLUMBING FIXTURES FOR TENANT IMPROVEMENT**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 9409020007
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: HI LE CONTRACTORS

ADJOINING PROPERTY FINDINGS

Date: **9/12/1994**
Permit Type: **EL**
Description: **FIXTURES FOR TENANT IMPROVEMENT**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9409020020
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: HI LE CONTRACTORS

Date: **9/12/1994**
Permit Type: **ME**
Description: **MECHANICAL FIXTURES**

Permit Description: **MECHANICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9409120012
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: HI LE CONTRACTORS

Date: **9/2/1994**
Permit Type: **ME**
Description: **EVAPORATIVE COOLER AND HOOD SYSTEM**

Permit Description: **MECHANICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9408180006
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: HI LE CONTRACTORS

ADJOINING PROPERTY FINDINGS

Date: **9/2/1994**
Permit Type: **BL**
Description: **TENANT IMPROVEMENT**

Permit Description: **BUILDING PERMIT**
Work Class: NEW COMMERCIAL
Proposed Use:
Permit Number: 9409020015
Status: FINALED
Valuation: $49,000.00
Contractor Company:
Contractor Name: HI LE CONTRACTORS

3818 E CESAR E CHAVEZ AVE

Date: **10/7/2016**
Permit Type: **PL**
Description: **REPLACE EXISTING FLOOR SINK, INTERCEPTOR, AND 3 SINKS.**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 1610070010
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: MIKE SANTANA

Date: **10/7/2016**
Permit Type: **EL**
Description: **REPLACE ONE LIGHT FIXTURE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 1610070016
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: MIKE SANTANA

ADJOINING PROPERTY FINDINGS

Date:	**5/14/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805140043
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

3820 E CESAR E CHAVEZ AVE

Date:	**9/15/2016**
Permit Type:	**BL**
Description:	**REMOVE UNPERMITTED SIDE ADDITION AND REAR ATTACHED PATIO TO (E) SFD. REMOVE UNPERMITTED ELECTRICAL, PLUMBING AND CAP SEWER.**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1609150050
Status:	FINALED
Valuation:	$1,000.00
Contractor Company:	
Contractor Name:	SAME AS OWNER

ADJOINING PROPERTY FINDINGS

Date: **5/13/1998**
Permit Type: **EL**
Description: **RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9804290016
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

3823 E CESAR E CHAVEZ AVE

Date: **5/13/1998**
Permit Type: **EL**
Description: **RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9804290066
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3824 E CESAR E CHAVEZ AVE

Date:	**5/13/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9804290017
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

3826 E CESAR E CHAVEZ AVE

Date:	**5/14/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805140044
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3827 E CESAR E CHAVEZ AVE

Date:	**5/14/1998**
Permit Type:	**EL**
Description:	**RELOCATE ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805140056
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

3829 E CESAR E CHAVEZ AVE

Date:	**5/15/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805150025
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **5/13/1998**
Permit Type: **EL**
Description: **RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9804290068
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

Date: **5/13/1998**
Permit Type: **EL**
Description: **RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805010056
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

3831 E CESAR E CHAVEZ AVE

Date: **8/13/2003**
Permit Type: **EL**
Description: **1 CIRCUIT AND 2 MERCURY VAPOR FIXTURES ON THE OUTSIDE OF BUILDING**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0308130046
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: DAVID ROJAS

ADJOINING PROPERTY FINDINGS

Date: **7/29/2003**
Permit Type: **EL**
Description: **4 GANG METER (3-60 AMP SERVICE METERS AND 1-100 AMP HOUSE METER)**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0307290043
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: DAVID ROJAS

Date: **5/14/1998**
Permit Type: **EL**
Description: **RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805140025
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

3833 E CESAR E CHAVEZ AVE

Date: **2/6/2004**
Permit Type: **BL**
Description: **FRONT AWNING (ALUMINIUM) 50'X3'10" (NO LETTERING)**

Permit Description: **BUILDING PERMIT**
Work Class: COMMERCIAL ADD/ALT
Proposed Use:
Permit Number: 0402060044
Status: FINALED
Valuation: $2,300.00
Contractor Company:
Contractor Name: MEDINA RICARDO;MARTHA

ADJOINING PROPERTY FINDINGS

Date:	**4/7/2003**
Permit Type:	**BL**
Description:	**DEMOLISH UNPERMITTED STRUCTURE OVER PERMITTED 465 SQ FT OPEN PATIO (DEMOLISH STRUCTURE WITHIN 30 DAYS)**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0304070025
Status:	FINALED
Valuation:	$500.00
Contractor Company:	
Contractor Name:	MEDINA RICARDO;MARTHA

Date:	**10/1/2002**
Permit Type:	**BL**
Description:	**NEW PATIO COVER 15' X 31' (465 SQ. FT.)**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADDITION
Proposed Use:	
Permit Number:	0210010010
Status:	FINALED
Valuation:	$8,800.00
Contractor Company:	
Contractor Name:	MEDINA RICARDO;MARTHA

Date:	**5/14/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805140026
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3837 E CESAR E CHAVEZ AVE

Date:	**5/13/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9804300009
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

3840 E CESAR E CHAVEZ AVE

Date:	**1/22/2002**
Permit Type:	**BL**
Description:	**STUCCO 800 SQ FT OF RESIDENCE AND 7 WINDOW CHANGE OUT WITH SAME SIZE**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0201220083
Status:	FINALED
Valuation:	$1,500.00
Contractor Company:	
Contractor Name:	MEDINA, RICARDO;MEDINA, POLO

ADJOINING PROPERTY FINDINGS

3842 E CESAR E CHAVEZ AVE

Date:	**2/16/2011**
Permit Type:	**ME**
Description:	**C/O 25K WALL FURNACE**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1102160021
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**5/14/1998**
Permit Type:	**EL**
Description:	**RELOCATE ELECTRICAL**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805140074
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

Date:	**5/13/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9804290021
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3843 E CESAR E CHAVEZ AVE

Date:	**2/11/2000**
Permit Type:	**ME**
Description:	**1 WALL HEATER**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0002110010
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MARAVILLA FOUNDATION

Date:	**5/13/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9804300010
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3844 E CESAR E CHAVEZ AVE

Date:	**4/14/1999**
Permit Type:	**BL**
Description:	**STUCCO COMMERCIAL BUILDING**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	9904140050
Status:	FINALED
Valuation:	$860.00
Contractor Company:	
Contractor Name:	ESCALANTE NICK

Date:	**4/1/1999**
Permit Type:	**BL**
Description:	**STUCCO HOUSE**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	9904010055
Status:	FINALED
Valuation:	$760.00
Contractor Company:	
Contractor Name:	ESCALANTE NICK

Date:	**5/14/1998**
Permit Type:	**EL**
Description:	**RELOCATE ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805140073
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3845 E CESAR E CHAVEZ AVE

Date:	**5/13/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9804300011
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

3846 E CESAR E CHAVEZ AVE

Date:	**5/14/1998**
Permit Type:	**EL**
Description:	**RELOCATE ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805140072
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3848 E CESAR E CHAVEZ AVE

Date:	**5/13/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9804290023
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

3849 E CESAR E CHAVEZ AVE

Date:	**1/13/2005**
Permit Type:	**EL**
Description:	**SERVICE PANEL UPGRADE(100 AMP COMMERCIAL,100 AMP RES. AND 100 HOUSE METER ADDRESSED AS 3851 "A")**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0501130040
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DAVID ROJAS

ADJOINING PROPERTY FINDINGS

Date: **5/13/1998**
Permit Type: **EL**
Description: **RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9804300013
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

3854 E CESAR E CHAVEZ AVE

Date: **5/14/1998**
Permit Type: **EL**
Description: **RELOCATE ELECTRICAL SERVICE TO UNDERGROUND**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805140066
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3856 E CESAR E CHAVEZ AVE

Date:	**12/18/1998**
Permit Type:	**BL**
Description:	**EXTEND 2 WINDOWS**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	9812180052
Status:	FINALED
Valuation:	$500.00
Contractor Company:	
Contractor Name:	VARGAS, RAUL

Date:	**9/29/1997**
Permit Type:	**EL**
Description:	**1 100 AMP PANEL AND SUB PANEL**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9709290025
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	J C ELECTRIC CO.

ADJOINING PROPERTY FINDINGS

3858 E CESAR E CHAVEZ AVE

Date:	**12/2/1997**
Permit Type:	**EL**
Description:	**1 100 AMP PANEL**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9712020018
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	J C ELECTRIC CO.

3859 E CESAR E CHAVEZ AVE

Date:	**5/14/1998**
Permit Type:	**EL**
Description:	**RELOCATE ELECTRICAL**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805140051
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **5/14/1998**
Permit Type: **EL**
Description: **RELOCATE ELECTRICAL**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805140027
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

Date: **5/14/1998**
Permit Type: **EL**
Description: **RELOCATE ELECTRICAL**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805140049
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

3862 E CESAR E CHAVEZ AVE

Date: **3/20/2017**
Permit Type: **EL**
Description: **UPGRADE 100 AMP SERVICE PANEL (NO INTERIOR WORK TO BE DONE).**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 1703200016
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: NERI EDILBERTO ESCALANTE

ADJOINING PROPERTY FINDINGS

Date: **12/9/1998**
Permit Type: **EL**
Description: **11 PLUGS 5 LIGHTS 4 SWITCHES**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9812090002
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: BUSY BEE

Date: **12/8/1998**
Permit Type: **BL**
Description: **DRYWALL CEILING AND INTERIOR WALL**

Permit Description: **BUILDING PERMIT**
Work Class: COMMERCIAL ADD/ALT
Proposed Use:
Permit Number: 9812080003
Status: FINALED
Valuation: $4,000.00
Contractor Company:
Contractor Name: VARGAS, RAUL

3864 E CESAR E CHAVEZ AVE

Date: **8/26/1996**
Permit Type: **PL**
Description: **REPLACE FIXTURES**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 9608260005
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: L. C. CONSTRUCTION AND PLUMBING

ADJOINING PROPERTY FINDINGS

Date: **8/14/1996**
Permit Type: **BL**
Description: **DRYWALL**

Permit Description: **BUILDING PERMIT**
Work Class: ALTERATION/REPAIR
Proposed Use:
Permit Number: 9608140040
Status: FINALED
Valuation: $490.00
Contractor Company:
Contractor Name: SALAS PETER E DECD EST OF

Date: **8/9/1996**
Permit Type: **EL**
Description: **REWIRE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9608090029
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: J C ELECTRIC CO.

3865 E CESAR E CHAVEZ AVE

Date: **5/14/1998**
Permit Type: **EL**
Description: **RELOCATE ELECTRICAL SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805140048
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3868 E CESAR E CHAVEZ AVE

Date:	**4/26/2017**
Permit Type:	**PL**
Description:	**REPLACE EXISTING SINK WITH 3 COMPARTMENT SINK.**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1704260017
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JUAN'S PLUMBING

Date:	**11/16/2016**
Permit Type:	**PL**
Description:	**REPLACE ONE HOSE BIBB**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1611160012
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	J CHRISTOPHER HERNANDEZ CONSTRUCTIO

Date:	**11/16/2016**
Permit Type:	**EL**
Description:	**REPLACE 2 OUTLETS AND 1 LIGHT FIXTURE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1611160032
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	J CHRISTOPHER HERNANDEZ CONSTRUCTIO

ADJOINING PROPERTY FINDINGS

Date:	**11/16/2016**
Permit Type:	**BL**
Description:	**TEAR OFF/RE-ROOF 7500SF COMMERCIAL STRUCTURE WITH TORCH DOWN**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1611160032
Status:	FINALED
Valuation:	$24,000.00
Contractor Company:	
Contractor Name:	J CHRISTOPHER HERNANDEZ CONSTRUCTIO

Date:	**4/24/2009**
Permit Type:	**BL**
Description:	**STOREFRONT REVITALIZATION**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0811070006
Status:	FINALED
Valuation:	$49,000.00
Contractor Company:	
Contractor Name:	

Date:	**6/7/2007**
Permit Type:	**BL**
Description:	**PROPOSE PARTITION WALL BETWEEN BAKERY AND ADJACENT OF PROPERTY.**
Permit Description:	**BUILDING PERMIT**
Work Class:	COMMERCIAL ADD/ALT
Proposed Use:	
Permit Number:	0706040006
Status:	PERMISUD
Valuation:	$8,000.00
Contractor Company:	
Contractor Name:	CORDOVA, MARIA

ADJOINING PROPERTY FINDINGS

3869 E CESAR E CHAVEZ AVE

Date:	**5/13/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9804300019
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

3901 E CESAR E CHAVEZ AVE

Date:	**9/23/2010**
Permit Type:	**EL**
Description:	**INTALL 1 NEW MOTION SECURITY LIGHT**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1009230038
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**9/23/2010**
Permit Type:	**BL**
Description:	**RE-ROOF 3000 SQFT W/ TORCH DOWN MATERIAL**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1009230052
Status:	FINALED
Valuation:	$5,500.00
Contractor Company:	
Contractor Name:	

Date:	**6/1/2007**
Permit Type:	**PL**
Description:	**WATER HEATER RELOCATION**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0706010019
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ISRAEL SILVA ELECTRIC

Date:	**5/18/2007**
Permit Type:	**BL**
Description:	**ADA COMPLIANCE FOR SERVICE COUNTER 6' & BACKING FOR PLUMBING FIXTURES.**
Permit Description:	**BUILDING PERMIT**
Work Class:	TENANT IMPROVEMENT
Proposed Use:	
Permit Number:	0705170039
Status:	FINALED
Valuation:	$2,500.00
Contractor Company:	
Contractor Name:	LEONEL LEMUS HENRRIQUEZ

ADJOINING PROPERTY FINDINGS

Date: **5/18/2007**
Permit Type: **PL**
Description: **(2) FLOOR DRAINS/(7) FLOOR SINKS/(8) LAVATORY SINK**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 0705180008
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: LEONEL LEMUS HENRRIQUEZ

Date: **5/18/2007**
Permit Type: **ME**
Description: **INSTALL REFRIG COMPRESSORS**

Permit Description: **MECHANICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0705180011
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: LEONEL LEMUS HENRRIQUEZ

Date: **5/18/2007**
Permit Type: **EL**
Description: **(3) BRANCH CIRCUITS**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0705180015
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: LEONEL LEMUS HENRRIQUEZ

ADJOINING PROPERTY FINDINGS

Date: **4/21/2004**
Permit Type: **EL**
Description: **10 NEW LIGHT FIXTURES**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0404210052
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: A Z HOME INC.

Date: **4/21/2004**
Permit Type: **BL**
Description: **STORE FRONT REPLACEMENT/RENOVATION**

Permit Description: **BUILDING PERMIT**
Work Class: ALTERATION/REPAIR
Proposed Use:
Permit Number: 0404210065
Status: FINALED
Valuation: $12,000.00
Contractor Company:
Contractor Name: A Z HOME INC.

Date: **5/13/1998**
Permit Type: **EL**
Description: **RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9804300021
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3905 E CESAR E CHAVEZ AVE

Date:	**5/15/1998**
Permit Type:	**EL**
Description:	**RELOCATE ELECTRICAL**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805150005
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

Date:	**5/14/1998**
Permit Type:	**EL**
Description:	**RELOCATE ELECTRICAL**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805140063
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3911 E CESAR E CHAVEZ AVE

Date:	**6/3/2004**
Permit Type:	**BL**
Description:	**REPLACE 19 WINDOWS FOR LEAD PROGRAM**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0406030076
Status:	FINALED
Valuation:	$12,300.00
Contractor Company:	
Contractor Name:	ENVIROCON, INC.

Date:	**9/22/2003**
Permit Type:	**BL**
Description:	**TEAR OFF AND RE ROOF W/COMPOSITION SHINGLE**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0309220050
Status:	FINALED
Valuation:	$2,300.00
Contractor Company:	
Contractor Name:	CASTILLO, IRMA

Date:	**5/13/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE C**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805010001
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3915 E CESAR E CHAVEZ AVE

Date:	**11/5/2002**
Permit Type:	**BL**
Description:	**TEAR OFF AND RE ROOF W/COMP SHINGLE 2300 SQ FT**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0211050043
Status:	PERMISUD
Valuation:	$2,500.00
Contractor Company:	
Contractor Name:	LUEVANO IGNACIO;EVANGELINA

Date:	**5/13/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805010002
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3917 E CESAR E CHAVEZ AVE

Date:	**5/14/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805140030
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

3919 E CESAR E CHAVEZ AVE

Date:	**9/1/2004**
Permit Type:	**BL**
Description:	**TEAR OFF AND RE ROOF 30 YR COMP SHINGLE RES & GAR 2500 SQ FT**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0409010017
Status:	FINALED
Valuation:	$5,600.00
Contractor Company:	
Contractor Name:	MODERN ROOFING*

ADJOINING PROPERTY FINDINGS

Date: **5/15/1998**
Permit Type: **EL**
Description: **RELOCATE ELECTRICAL**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805150001
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

3921 E CESAR E CHAVEZ AVE

Date: **5/13/1998**
Permit Type: **EL**
Description: **RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805010006
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3923 E CESAR E CHAVEZ AVE

Date:	**5/15/1998**
Permit Type:	**EL**
Description:	**RELOCATE ELECTRICAL**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805150002
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

3925 E CESAR E CHAVEZ AVE

Date:	**5/13/1998**
Permit Type:	**EL**
Description:	**RELOCATE ELECTRICAL TO UNDERGROUND**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805010011
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3929 E CESAR E CHAVEZ AVE

Date:	**6/14/2007**
Permit Type:	**ME**
Description:	**WALL FURNACE C/O**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0706140010
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MARAVILLA FOUNDATION

Date:	**4/26/2000**
Permit Type:	**BL**
Description:	**TEAR OFF AND REROOF W/ ASPHALT SHINGLE 13 SQUARES**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0004260006
Status:	FINALED
Valuation:	$1,300.00
Contractor Company:	
Contractor Name:	ROBERTSON ROOFING

Date:	**10/19/1998**
Permit Type:	**BL**
Description:	**SIESMIC RETROFIT**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	9810190025
Status:	FINALED
Valuation:	$3,200.00
Contractor Company:	
Contractor Name:	SEISMIC SAFETY

ADJOINING PROPERTY FINDINGS

Date: **5/13/1998**
Permit Type: **EL**
Description: **RELOCATE ELEC TO UNDERGROUND**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805010013
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

3931 E CESAR E CHAVEZ AVE

Date: **5/14/1998**
Permit Type: **EL**
Description: **RELOCATE ELEC TO UNDERGROUND**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805140032
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3933 E CESAR E CHAVEZ AVE

Date:	**3/21/2012**
Permit Type:	**BL**
Description:	**REMODEL KITCHEN-NEW DRYWALL, INSULATION. REPLACE FRONT DOOR AND KITCHEN DOOR**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1203210009
Status:	FINALED
Valuation:	$2,000.00
Contractor Company:	
Contractor Name:	SAME AS OWNER

Date:	**3/13/2012**
Permit Type:	**EL**
Description:	**REWIRE AND 2 GANG METER 100 AMP EACH 3933 AND 3933-1/2 CESAR CHAVEZ**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1203130063
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GOMEZ ELECTRIC

ADJOINING PROPERTY FINDINGS

Date: **4/26/2000**
Permit Type: **BL**
Description: **TEAR OFF AND REROOF W/ ASPHALT SHINGLES 16 SQUARES**

Permit Description: **BUILDING PERMIT**
Work Class: ALTERATION/REPAIR
Proposed Use:
Permit Number: 0004260005
Status: FINALED
Valuation: $1,700.00
Contractor Company:
Contractor Name: ROBERTSON ROOFING

Date: **5/14/1998**
Permit Type: **EL**
Description: **RELOCATE ELEC TO UNDERGROUND**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805140033
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

3935 E CESAR E CHAVEZ AVE

Date: **5/13/1998**
Permit Type: **EL**
Description: **RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805010028
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3939 E CESAR E CHAVEZ AVE

Date:	**5/14/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICES**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805140034
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

3951 E CESAR E CHAVEZ AVE

Date:	**12/10/1998**
Permit Type:	**PL**
Description:	**PLUMBING**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9812100024
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JAYDEE ELECTRIC

ADJOINING PROPERTY FINDINGS

Date: **5/14/1998**
Permit Type: **EL**
Description: **RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805140035
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

3953 E CESAR E CHAVEZ AVE

Date: **2/15/2011**
Permit Type: **BL**
Description: **C/O (7) WINDOWS**

Permit Description: **BUILDING PERMIT**
Work Class: ALTERATION/REPAIR
Proposed Use:
Permit Number: 1102150035
Status: FINALED
Valuation: $3,800.00
Contractor Company:
Contractor Name:

Date: **2/15/2011**
Permit Type: **PL**
Description: **REPLUMBING OF UNIT**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 1102150009
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**2/15/2011**
Permit Type:	**EL**
Description:	**(1) SUB-PANEL**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1102150018
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**1/26/2011**
Permit Type:	**ME**
Description:	**FIRE DAMAGE NON STRUCTURAL/DRYWALL, CABINETS, FLOORING, ROOF REPAIR 400 SQFT**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1101260008
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**1/26/2011**
Permit Type:	**PL**
Description:	**FIRE DAMAGE NON STRUCTURAL/DRYWALL, CABINETS, FLOORING, ROOF REPAIR 400 SQFT**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1101260013
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**1/26/2011**
Permit Type:	**EL**
Description:	**FIRE DAMAGE NON STRUCTURAL/DRYWALL, CABINETS, FLOORING, ROOF REPAIR 400 SQFT**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1101260020
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**1/26/2011**
Permit Type:	**BL**
Description:	**FIRE DAMAGE NON STRUCTURAL/DRYWALL, CABINETS, FLOORING, ROOF REPAIR 400 SQFT**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1101260024
Status:	FINALED
Valuation:	$18,000.00
Contractor Company:	
Contractor Name:	

Date:	**1/24/2003**
Permit Type:	**ME**
Description:	**CHANGE OUT FURNACES IN UNITS 5 AND 8**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0301240018
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MARAVILLA FOUNDATION

ADJOINING PROPERTY FINDINGS

Date: **5/14/1998**
Permit Type: **EL**
Description: **RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9805140036
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: STET-CO CONSTRUCTION

3965 E CESAR E CHAVEZ AVE

Date: **6/4/2002**
Permit Type: **BL**
Description: **ADA RAMP & ADA ACCESS PKG. STALLS/RESTRIPE EXISTING STALLS**

Permit Description: **BUILDING PERMIT**
Work Class: NEW COMMERCIAL
Proposed Use:
Permit Number: 0206040024
Status: FINALED
Valuation: $28,000.00
Contractor Company:
Contractor Name: MACKONE DEVELOPMENT

Date: **12/28/2000**
Permit Type: **PL**
Description: **1 FLOOR DRAIN, 3 SINKS, 5 TOILETS**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 0012280013
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: BLUE LINE PLUMBING CO.

ADJOINING PROPERTY FINDINGS

Date: **12/27/2000**
Permit Type: **BL**
Description: **REMODEL RESTROOMS IN ORDER TO COMPLY WITH ADA**

Permit Description: **BUILDING PERMIT**
Work Class: ALTERATION/REPAIR
Proposed Use:
Permit Number: 0009110061
Status: FINALED
Valuation: $30,000.00
Contractor Company:
Contractor Name: 323-467-3814 MACKONE DEVELOPMENT, INC.

Date: **4/28/1998**
Permit Type: **BL**
Description: **EARTHQUAKE REPAIR**

Permit Description: **BUILDING PERMIT**
Work Class: ALTERATION/REPAIR
Proposed Use:
Permit Number: 9804280067
Status: PERMISUD
Valuation: $7,040.00
Contractor Company:
Contractor Name: OUT TO BID

Date: **4/28/1998**
Permit Type: **ME**
Description: **AIR CONDITIONING**

Permit Description: **MECHANICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9804280025
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: ALASKA AIR CONDITIONING

ADJOINING PROPERTY FINDINGS

3968 E CESAR E CHAVEZ AVE

Date:	**3/21/2007**
Permit Type:	**BL**
Description:	**REMOVE UN-PERMITTED METAL PATIO, REMOVE SIGNS, PLUMBING FIXTURES, OUTER ELECTRICAL FIXTURE AND LIGHTS.**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0703210012
Status:	FINALED
Valuation:	$2,000.00
Contractor Company:	
Contractor Name:	GUTIERREZ JESUS JR

Date:	**5/13/1998**
Permit Type:	**EL**
Description:	**RELOCATION FROM OVERHEAD TO UNDERGROUND ELECTRICAL SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9804290027
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

ADJOINING PROPERTY FINDINGS

3970 E CESAR E CHAVEZ AVE

Date:	**5/14/1998**
Permit Type:	**EL**
Description:	**RELOCATE SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9805140075
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	STET-CO CONSTRUCTION

MICHIGAN AVE

3842 MICHIGAN AVE

Date:	**7/14/2008**
Permit Type:	**PL**
Description:	**REPIPE PLUMBING**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0807140043
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	B D R, INC.

ADJOINING PROPERTY FINDINGS

Date:	**7/14/2008**
Permit Type:	**BL**
Description:	**REPLACE 100 SQ FT OF DRYWALL. C/O (10) WINDOWS SAME SIZE.**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0807140066
Status:	PERMISUD
Valuation:	$4,000.00
Contractor Company:	
Contractor Name:	B D R, INC.

Date:	**7/14/2008**
Permit Type:	**EL**
Description:	**REWIRE (20) OUTLETS-LIGHTING, RECEPT, SWITCH AND (5) LIGHTING FIXTURES.**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0807140066
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	B D R, INC.

Date:	**2/12/1997**
Permit Type:	**ME**
Description:	**WALL HEATER**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9702120015
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JOSEPH YBARRA

ADJOINING PROPERTY FINDINGS

3848 MICHIGAN AVE

Date:	**8/7/2008**
Permit Type:	**EL**
Description:	**UPGRADE ELECTRICAL PANEL 200 AMP / 2 SUB PANELS**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0808070035
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	S N L ELECTRIC, INC.

3849 MICHIGAN AVE

Date:	**9/19/1996**
Permit Type:	**BL**
Description:	**REROOF HOUSE AND GARAGE**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	9609190044
Status:	FINALED
Valuation:	$1,750.00
Contractor Company:	
Contractor Name:	RANDOL ROOFING AND CONSTRUCTION CO.

ADJOINING PROPERTY FINDINGS

3850 MICHIGAN AVE

Date:	**10/14/1998**
Permit Type:	**BL**
Description:	**MINOR REPAIR ON GARAGE ROOF**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	9810140007
Status:	FINALED
Valuation:	$1,850.00
Contractor Company:	
Contractor Name:	C AND P CONSTRUCTION

3904 MICHIGAN AVE

Date:	**4/30/2003**
Permit Type:	**BL**
Description:	**DEMO 4 ROOF RAFTERS AND APPROX. 1500 SQ.FT. OF DRYWALL FIRE AND WATER DAMAGE, 7 WINDOW REPLACEMENTS**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0302120026
Status:	PERMISUD
Valuation:	$24,000.00
Contractor Company:	
Contractor Name:	CENTRAL VALLEY RESTORATION

ADJOINING PROPERTY FINDINGS

Date: **4/30/2003**
Permit Type: **ME**
Description: **REPLACE DUAL WALL HEATER**

Permit Description: **MECHANICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0304300017
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: CENTRAL VALLEY RESTORATION

Date: **4/30/2003**
Permit Type: **EL**
Description: **ELECTRICAL RE-WIRE 25 OUTLETS, 15 FIXTURES, 100 AMP SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0304300022
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: CENTRAL VALLEY RESTORATION

Date: **4/30/2003**
Permit Type: **PL**
Description: **1 TUB, 2 TOILETS, 1 SINK**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 0304300024
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: CENTRAL VALLEY RESTORATION

ADJOINING PROPERTY FINDINGS

Date:	**4/30/2003**
Permit Type:	**BL**
Description:	**EXTEND LIVING ROOM 160 SQ FT/TEAR OFF EXISTING ROOF ON EXISTING RESIDENCE/RE-ROOF W/COMP SHINGLE/WINDOW CHANGE OUT**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADDITION
Proposed Use:	
Permit Number:	0304300047
Status:	PERMISUD
Valuation:	$12,000.00
Contractor Company:	
Contractor Name:	CENTRAL VALLEY RESTORATION

3908 MICHIGAN AVE

Date:	**12/30/2009**
Permit Type:	**ME**
Description:	**NEW 2 STORY SFD MECHANICAL PERMIT**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0912300010
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**12/30/2009**
Permit Type:	**BL**
Description:	**DEMO (E) GARAGE 1000 SQFT**
Permit Description:	**BUILDING PERMIT**
Work Class:	DEMOLITION
Proposed Use:	
Permit Number:	0912300034
Status:	FINALED
Valuation:	$500.00
Contractor Company:	
Contractor Name:	

Date:	**12/30/2009**
Permit Type:	**BL**
Description:	**NEW 2 STORY SFD 1631 SQFT W/ATTACHED 4 CAR GARAGE 900SQFT AND STORAGE 380 SQFT & BALCONY 160 SF**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADDITION
Proposed Use:	
Permit Number:	0909040005
Status:	FINALED
Valuation:	$260,000.00
Contractor Company:	
Contractor Name:	

Date:	**12/30/2009**
Permit Type:	**SE**
Description:	**NEW 2 STORY SFD CONNECT TO PUBLIC SEWER**
Permit Description:	**SEWER PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0912300001
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **12/30/2009**
Permit Type: **PL**
Description: **NEW 2 STORY SFD PLUMBING PERMIT**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 0912300013
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/30/2009**
Permit Type: **EL**
Description: **NEW 2 STORY SFD ELECTRICAL PERMIT**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0912300019
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name:

3924 MICHIGAN AVE

Date: **3/19/1998**
Permit Type: **SE**
Description: **SEWER**

Permit Description: **SEWER PERMIT**
Work Class:
Proposed Use:
Permit Number: 9803190014
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: HERNANDEZ, ANTONIO

ADJOINING PROPERTY FINDINGS

Date: **3/19/1998**
Permit Type: **PL**
Description: **PLUMBING**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 9803190017
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: HERNANDEZ, ANTONIO

Date: **3/19/1998**
Permit Type: **EL**
Description: **ELECT. SERVICE AND REWIRE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9803190034
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: ROLANDS ELELCTRIC

Date: **3/19/1998**
Permit Type: **BL**
Description: **REHABILITATION**

Permit Description: **BUILDING PERMIT**
Work Class: ALTERATION/REPAIR
Proposed Use:
Permit Number: 9803190077
Status: PERMISUD
Valuation: $100.00
Contractor Company:
Contractor Name: HERNANDEZ, ANTONIO

ADJOINING PROPERTY FINDINGS

3934 MICHIGAN AVE

Date:	**9/30/2005**
Permit Type:	**EL**
Description:	**RELOCATE AND UPGRADE ELECTRICAL SERVICE PANEL TO 100 AMPS**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0509300022
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	C - A ELECTRIC

3938 MICHIGAN AVE

Date:	**1/13/2012**
Permit Type:	**EL**
Description:	**UPGRADE ELECTRICAL PANEL TO 100 AMP**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1201130015
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ON TIME ELECTRICAL

ADJOINING PROPERTY FINDINGS

Date: **1/10/2012**
Permit Type: **PL**
Description: **PLUMBING FIXTURES FOR ADDITION**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 1201100009
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: SAMEDAY PLUMBING

Date: **1/9/2012**
Permit Type: **EL**
Description: **ELECTRICAL FOR ADDITION**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 1201090034
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: ON TIME ELECTRICAL

Date: **12/30/2011**
Permit Type: **BL**
Description: **LEGALIZE 244 SQFT ADDITION OF BEDROOM AND PLAY ROOM TO SFD**

Permit Description: **BUILDING PERMIT**
Work Class: RESIDENTIAL ADDITION
Proposed Use:
Permit Number: 1110180019
Status: FINALED
Valuation: $36,000.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**12/30/2011**
Permit Type:	**BL**
Description:	**324 SQFT DETACHED CARPORT**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADDITION
Proposed Use:	
Permit Number:	1110180022
Status:	FINALED
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	

Date:	**12/9/2005**
Permit Type:	**PL**
Description:	**RELOCATE WATER HEATER TO EXTERIOR OF RESIDENCE**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0512090016
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GUTIERREZ, RAMON;CASTELAN MARI

Date:	**12/9/2005**
Permit Type:	**BL**
Description:	**TEAR OFF AND RE ROOF W/CDX PLYWOOD AND COVER W/COMP SHINGLE 1000 SQ FT**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0512090060
Status:	FINALED
Valuation:	$3,500.00
Contractor Company:	
Contractor Name:	GUTIERREZ, RAMON;CASTELAN MARI

ADJOINING PROPERTY FINDINGS

3962 MICHIGAN AVE

Date:	**11/15/2016**
Permit Type:	**ME**
Description:	**REPLACE WALL HEATER**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1611150019
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	TONY'S HEATING AND A,C SERVICE, INC

Date:	**1/2/2003**
Permit Type:	**EL**
Description:	**UPGRADE SERVICE 100AMP**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0301020018
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MAGENO, JOSEPH E.

Date:	**1/16/1996**
Permit Type:	**BL**
Description:	**REHABILITATION**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	9601160010
Status:	PERMISUD
Valuation:	$100.00
Contractor Company:	
Contractor Name:	JOSEPH MAGENO

ADJOINING PROPERTY FINDINGS

3970 MICHIGAN AVE

Date:	**2/6/2008**
Permit Type:	**BL**
Description:	**DEMO DILAPIDATED 380 SQ. AT REAR OF S.F.D.**
Permit Description:	**BUILDING PERMIT**
Work Class:	DEMOLITION
Proposed Use:	
Permit Number:	0802060023
Status:	PERMISUD
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	ACOSTA, CAROLINA

3976 MICHIGAN AVE

Date:	**12/8/2010**
Permit Type:	**ME**
Description:	**REPALCE CENTRAL HEATING UNIT**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1012080003
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**11/9/2010**
Permit Type:	**PL**
Description:	**C/O 11 WINDOWS(SAME SIZE)REPLACE STUCCO AS NEEDED FOR WINDOW RE-ROOF 2300 SQFT W/ 25 YEAR COMP SHINGLES. REMODEL KITCHEN/BATH, REPLACE DRYWALL THRUOUT SFD.**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1011090027
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**11/9/2010**
Permit Type:	**EL**
Description:	**1 FAU 1 GARBAGE DISPOSAL 1 RANGE HOOD 1 EXHAUS FAN 1 WASHING MACHINE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1011090038
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**11/9/2010**
Permit Type:	**BL**
Description:	**C/O 11 WINDOWS(SAME SIZE)REPLACE STUCCO AS NEEDED FOR WINDOW RE-ROOF 1400 SQFT W/ 25 YEAR COMP SHINGLES. REMODEL KITCHEN/BATH, REPLACE DRYWALL THRUOUT SFD.**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1011090061
Status:	FINALED
Valuation:	$35,000.00
Contractor Company:	
Contractor Name:	

N HERBERT AVE

200 N HERBERT AVE

Date:	**10/18/2006**
Permit Type:	
Description:	**REROOF 1259 SQ. FT. W/ COMP SINGLE AND AND REPLACIN PLYWOOD AS NEEDED.**
Permit Description:	
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0610180076
Status:	FINALED
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	ESPARZA ALVARO

ADJOINING PROPERTY FINDINGS

Date:	**10/18/2006**
Permit Type:	
Description:	**REROOF 28 SQ. FT. DETACHED GARAGE WITH COMP SHINGLE AND REPLACING PLYWOOD AS NEEDED.**
Permit Description:	
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0610180079
Status:	FINALED
Valuation:	$500.00
Contractor Company:	
Contractor Name:	ESPERZA ALVARO

209 N HERBERT AVE

Date:	**5/20/2004**
Permit Type:	**BL**
Description:	**REFRAME EXISTING FLAT ROOF TO PITCHED ROOF, COVER WITH COMP SHINGLES-1012 SQ.FT.**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0405200042
Status:	PERMISUD
Valuation:	$15,000.00
Contractor Company:	
Contractor Name:	DORANTES,ARMANDO GALINDO, MARI

ADJOINING PROPERTY FINDINGS

Date:	**4/6/2004**
Permit Type:	**BL**
Description:	**REFRAME EXISTING FLAT ROOF TO PITCHED ROOF, COVER WITH COMP SHINGLES-1012 SQ.FT.**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0404060042
Status:	PERMISUD
Valuation:	$15,000.00
Contractor Company:	
Contractor Name:	DORANTES,ARMANDO GALINDO, MARI

214 N HERBERT AVE

Date:	**6/23/2003**
Permit Type:	**PL**
Description:	**WATER HEATER CHAGNE OUT**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0306230034
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	INTER CITY ENERGY

ADJOINING PROPERTY FINDINGS

219 N HERBERT AVE

Date:	**11/18/2003**
Permit Type:	**BL**
Description:	**TEAR OFF EXISTING ROOF, NEW SHEATHING, INSTALL 30 YR.**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0311180058
Status:	FINALED
Valuation:	$4,000.00
Contractor Company:	
Contractor Name:	CENESIS REMODELING

221 N HERBERT AVE

Date:	**12/28/2009**
Permit Type:	**BL**
Description:	**RE-ROOF FRONT PORTION OF SFD ONLY W/20 YR COMP SHIGLES WITH 1/2 " NEW PLYWOOD**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0912280015
Status:	FINALED
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

227 N HERBERT AVE

Date:	**7/30/2010**
Permit Type:	**ME**
Description:	**C/O WALL FURNACE**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1007300009
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

231 N HERBERT AVE

Date:	**11/3/2005**
Permit Type:	**ME**
Description:	**C/O WALL FURNACE**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0511030021
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MARAVILLA FOUNDATION

ADJOINING PROPERTY FINDINGS

238 N HERBERT AVE

Date:	**1/9/2004**
Permit Type:	**PL**
Description:	**CHANGE OUT WATER HEATER**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0401090004
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	DEPENDABLE ELECTRIC

302 N HERBERT AVE

Date:	**5/2/2007**
Permit Type:	**ME**
Description:	**C/O WALL FURNACE**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0705020004
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JAUREZ, BERNABE

ADJOINING PROPERTY FINDINGS

Date: **5/2/2007**
Permit Type: **EL**
Description: **C/O (14) OUTLETS-LIGHTING/(10) LIGHT FIXTURES AND RANGE HOOD.**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0705020010
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: JAUREZ, BERNABE

Date: **5/2/2007**
Permit Type: **BL**
Description: **REPLACED DRYWALL INTERIOR AND OUTSIDE SIDING.**

Permit Description: **BUILDING PERMIT**
Work Class: ALTERATION/REPAIR
Proposed Use:
Permit Number: 0705020011
Status: FINALED
Valuation: $5,000.00
Contractor Company:
Contractor Name: JAUREZ, BERNABE

Date: **4/20/2007**
Permit Type: **EL**
Description: **UPGRADE ELECTRICAL PANEL TO 100 AMP SERVICE**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0704200039
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: JUAREZ, BERNABE

ADJOINING PROPERTY FINDINGS

303 N HERBERT AVE

Date: **9/30/1994**
Permit Type: **BL**
Description: **ROOM ADDITION**

Permit Description: **BUILDING PERMIT**
Work Class: RESIDENTIAL ADDITION
Proposed Use:
Permit Number: 9409300001
Status: PERMISUD
Valuation: $17,000.00
Contractor Company:
Contractor Name: ISAURO DIAZ

Date: **9/30/1994**
Permit Type: **EL**
Description: **ELECTRICAL FIXTURES**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9409300001
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: ISAURO DIAZ

Date: **9/30/1994**
Permit Type: **ME**
Description: **WALL HEATER**

Permit Description: **MECHANICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 9409300001
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: ISAURO DIAZ

ADJOINING PROPERTY FINDINGS

Date:	**9/30/1994**
Permit Type:	**PL**
Description:	**PLUMBING FIXTURES**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9409300001
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ISAURO DIAZ

Date:	**9/30/1994**
Permit Type:	**SE**
Description:	**CONNECT ADD TO HOUSE SEWER**
Permit Description:	**SEWER PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9409300001
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ISAURO DIAZ

ADJOINING PROPERTY FINDINGS

309 N HERBERT AVE

Date:	**2/21/2017**
Permit Type:	**BL**
Description:	**494SF FAMILY ROOM ADDITION TO EXISTING SFD AND 156SF ATTACHED REAR PATIO.**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADDITION
Proposed Use:	
Permit Number:	1610030050
Status:	PERMISUD
Valuation:	$50,000.00
Contractor Company:	
Contractor Name:	SAME AS OWNER

Date:	**2/21/2017**
Permit Type:	**EL**
Description:	**ELECTRICAL FOR NEW 494SF FAMILY RM ADDITION TO EXISTING SFD AND 156SF ATTACHED REAR PATIO.**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1702210043
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SAME AS OWNER

ADJOINING PROPERTY FINDINGS

Date: **7/16/2015**
Permit Type: **EL**
Description: **UPGRADE TO 200 AMP PANEL, NO INTERIOR WORK TO BE DONE.**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 1507160024
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: SAME AS OWNER

Date: **4/28/2015**
Permit Type: **BL**
Description: **NEW 484SF DETACHED 2-CAR GARAGE**

Permit Description: **BUILDING PERMIT**
Work Class: NEW RESIDENTIAL
Proposed Use:
Permit Number: 1503300047
Status: FINALED
Valuation: $22,250.00
Contractor Company:
Contractor Name: SAME AS OWNER

Date: **9/17/2009**
Permit Type: **EL**
Description: **UPGRADE ELECTRICAL PANEL 100AMP**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0909170022
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

311 N HERBERT AVE

Date:	**10/24/1997**
Permit Type:	**BL**
Description:	**FOUNDATION REPAIR**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	9710240003
Status:	FINALED
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	FELIX ARTHUR G;IRENE L

322 N HERBERT AVE

Date:	**12/17/2015**
Permit Type:	**BL**
Description:	**NEW 361SF ADDITION CONSISTING OF MASTER BEDROOM, BATHROOM, AND WALK-IN CLOSET. PERMIT UNPERMITTED 40SF CONVERSION OF PORCH TO PORTION OF LIVING ROOM AND 32SF FRONT PORCH.**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADDITION
Proposed Use:	
Permit Number:	1509100039
Status:	PERMISUD
Valuation:	$48,520.00
Contractor Company:	
Contractor Name:	SAME AS OWNER

ADJOINING PROPERTY FINDINGS

Date:	**12/17/2015**
Permit Type:	**ME**
Description:	**MECHANICAL FOR NEW 361SF ADDITION**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1512170012
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SAME AS OWNER

Date:	**12/17/2015**
Permit Type:	**PL**
Description:	**PLUMBING FOR NEW 361SF ADDITION**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1512170015
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SAME AS OWNER

Date:	**12/17/2015**
Permit Type:	**EL**
Description:	**ELECTRICAL FOR NEW 361SF ADDITION, 40SF LIVING ROOM ADDITION AND 32SF PORCH.**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1512170022
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SAME AS OWNER

ADJOINING PROPERTY FINDINGS

Date:	**8/14/2007**
Permit Type:	**BL**
Description:	**REPLACE (8) WINDOWS SAME SIZE.**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0708140004
Status:	PERMISUD
Valuation:	$3,500.00
Contractor Company:	
Contractor Name:	GOMEZ, FRANCISCO JR

Date:	**8/14/2007**
Permit Type:	**PL**
Description:	**WATER REPIPING TO KITCHEN AND BATHROOM.**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0708140004
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GOMEZ, FRANCISCO JR

Date:	**8/14/2007**
Permit Type:	**EL**
Description:	**REWIRE AND UPGRADE PANEL.**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0708140005
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GOMEZ, FRANCISCO JR

ADJOINING PROPERTY FINDINGS

Date:	**6/27/2007**
Permit Type:	**BL**
Description:	**CONVERT UNPERMITTED DUPLEX BACK TO SINGLE FAMILY DWELLING REMODEL ADDITION OF NON BEARING WALLS.**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADD/ALT
Proposed Use:	
Permit Number:	0704250027
Status:	PERMISUD
Valuation:	$20,000.00
Contractor Company:	
Contractor Name:	GOMEZ, FRANCISCO

Date:	**6/27/2007**
Permit Type:	**ME**
Description:	**NEW WALL FURNACE FOR ALTERATION**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0706270005
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GOMEZ, FRANCISCO

Date:	**6/27/2007**
Permit Type:	**PL**
Description:	**GAS LINE FOR NEW WALL FURNACE**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0706270005
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GOMEZ, FRANCISCO

ADJOINING PROPERTY FINDINGS

Date:	**6/27/2007**
Permit Type:	**EL**
Description:	**6 OUTLETS FOR ALTERATION**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0706270011
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GOMEZ, FRANCISCO

Date:	**10/29/1998**
Permit Type:	**BL**
Description:	**RETURN DUPLEX TO SINGLE FAMILY DWELLING**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	9810290018
Status:	FINALED
Valuation:	$1,000.00
Contractor Company:	
Contractor Name:	ANDRADE PORFIRIO

ADJOINING PROPERTY FINDINGS

323 N HERBERT AVE

Date:	**1/29/2007**
Permit Type:	**EL**
Description:	**INSTALL SUBPANEL TO ACCESSORY BUILDING AT REAR OF PROPERTY. INSTALL 3 LIGHT FIXTURES AND 8 AOUTLETS-LIGHTING**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0701290053
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ROSILLO, JOSE

Date:	**11/22/2006**
Permit Type:	
Description:	**REMOVE UNPERMITTED ADDITIONS TO GARAGE AND RETURN GARAGE BACK TO ORIGINAL USE NEW ROOF FRAMING CONFORM TO TYP V SHEET**
Permit Description:	
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0611220014
Status:	FINALED
Valuation:	$4,800.00
Contractor Company:	
Contractor Name:	ROSILLO, JOSE

ADJOINING PROPERTY FINDINGS

Date:	**10/18/2006**
Permit Type:	
Description:	**REMOVE UNPERMITTED 10'X20' CARPORT, REMOVE 7'X9' PORCH AND PROPOSE TO LEGALIZE 6'X12' LAUNDRY RM PER EXPIRED PERMIT MP#9505310001.**
Permit Description:	
Work Class:	NEW RESIDENTIAL
Proposed Use:	
Permit Number:	0610180019
Status:	FINALED
Valuation:	$2,500.00
Contractor Company:	
Contractor Name:	ROSILLO, JOSE

Date:	**7/24/1995**
Permit Type:	**EL**
Description:	**ELECTRICAL FOR A LAUNDRYROOM**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9507240001
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JOSE ROSILLO

Date:	**5/31/1995**
Permit Type:	**MP**
Description:	**LEGALIZE LAUNDRY ROOM**
Permit Description:	**MISCELLANEOUS PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9505310001
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JOSE ROSILLO

ADJOINING PROPERTY FINDINGS

325 N HERBERT AVE

Date:	**2/20/2007**
Permit Type:	**EL**
Description:	**UPGRADE ELECTRICAL PANEL TO 200 AMP**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0702200004
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ROSILLO, JOSE

328 N HERBERT AVE

Date:	**6/3/2005**
Permit Type:	**ME**
Description:	**1 WALL FURNACE**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0506030002
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	G AND R CRUZ GENERAL CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **6/3/2005**
Permit Type: **PL**
Description: **1 BATH/SHOWER, 1 SINK**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 0506030007
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: G AND R CRUZ GENERAL CONSTRUCTION

Date: **6/3/2005**
Permit Type: **EL**
Description: **20 OUTLETS/SWITCHES/6 FIXTURES/1 GAR DISP/1 RANGE HOOD 1 EXH FAN**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0506030008
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: G AND R CRUZ GENERAL CONSTRUCTION

Date: **4/5/2005**
Permit Type: **BL**
Description: **ADD 352 SQ FT BDRM/BA/DEN REMODEL INTERIOR OF EXISTING**

Permit Description: **BUILDING PERMIT**
Work Class: RESIDENTIAL ADD/ALT
Proposed Use:
Permit Number: 0407230046
Status: PERMISUD
Valuation: $45,000.00
Contractor Company:
Contractor Name: RICO JOSE L;TERESA

ADJOINING PROPERTY FINDINGS

329 N HERBERT AVE

Date:	**4/12/2010**
Permit Type:	**BL**
Description:	**(5) WINDOW CHANGE OUT SAME SIZE AND RESTUCCO 720 SQ FT**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1004120012
Status:	FINALED
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	

Date:	**11/19/2008**
Permit Type:	**EL**
Description:	**UPGRADE PANEL TO 100 AMP SERVICE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0811190019
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

330 N HERBERT AVE

Date:	**6/3/2005**
Permit Type:	**ME**
Description:	**1 WALL FURNACE**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0506030003
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	G AND R CRUZ GENERAL CONSTRUCTION

Date:	**6/3/2005**
Permit Type:	**PL**
Description:	**1 BATH/SHOWER/1 SINK/1 WATER HEATER**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0506030009
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	G AND R CRUZ GENERAL CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**6/3/2005**
Permit Type:	**EL**
Description:	**25 OUTLETS/SWITCHES/8 FIXTURES/1 GAR DISP/1 RANGE HOOD 1 WASH MACH/1 EXH FAN**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0506030011
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	G AND R CRUZ GENERAL CONSTRUCTION

Date:	**4/5/2005**
Permit Type:	**BL**
Description:	**ADD 394 SQ FT BDRM/LAUNDRY ROOM/DEN**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADD/ALT
Proposed Use:	
Permit Number:	0504050047
Status:	FINALED
Valuation:	$48,000.00
Contractor Company:	
Contractor Name:	RICO JOSE L;TERESA

ADJOINING PROPERTY FINDINGS

331 N HERBERT AVE

Date:	**5/13/2010**
Permit Type:	**BL**
Description:	**C/O (3) SAME SIZE AND RESTUCCO 476 SQ FT.**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1005130004
Status:	FINALED
Valuation:	$1,000.00
Contractor Company:	
Contractor Name:	

Date:	**11/14/2008**
Permit Type:	**EL**
Description:	**UPGRADE ELECTRICAL PANEL TO 100 AMP SERVICE PANEL.**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0811140002
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

332 N HERBERT AVE

Date:	**1/22/2002**
Permit Type:	**BL**
Description:	**STUCCO 800 SQ FT OF RESIDENCE**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0201220085
Status:	PERMISUD
Valuation:	$800.00
Contractor Company:	
Contractor Name:	MEDINA, RICARDO;MEDINA, POLO

N RECORD AVE

162 N RECORD AVE

Date:	**6/24/2010**
Permit Type:	**EL**
Description:	**2 CIRCUITS 1 LIGHT FIXTURE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1006240013
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **6/16/2010**
Permit Type: **EL**
Description: **UPGRADE ELECTRICAL PANEL 100 AMP**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 1006160043
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **12/14/1999**
Permit Type: **PL**
Description: **LOW PRESSURE GAS SYSTEM (20 FT)**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 9912090010
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: FOX ROOTER AND PLUMBING

203 N RECORD AVE

Date: **1/23/2006**
Permit Type: **SE**
Description: **SEWER PERMIT**

Permit Description: **SEWER**
Work Class:
Proposed Use:
Permit Number: 0601230008
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: ARZOLA GUERRERO;AURORA

ADJOINING PROPERTY FINDINGS

Date: **1/23/2006**
Permit Type: **ME**
Description: **INSTALL NEW WALL HEATER**

Permit Description: **MECHANICAL**
Work Class:
Proposed Use:
Permit Number: 0601230024
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: ARZOLA GUERRERO;AURORA

Date: **1/23/2006**
Permit Type: **PL**
Description: **PLUMBING PERMIT FOR NEW UNIT**

Permit Description: **PLUMBING**
Work Class:
Proposed Use:
Permit Number: 0601230031
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: ARZOLA GUERRERO;AURORA

Date: **1/23/2006**
Permit Type: **EL**
Description: **ELECTRICAL PERMIT FOR NEW UNIT 1008 SQFT**

Permit Description: **ELECTRICAL**
Work Class:
Proposed Use:
Permit Number: 0601230043
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: ARZOLA GUERRERO;AURORA

ADJOINING PROPERTY FINDINGS

Date:	**1/10/2006**
Permit Type:	
Description:	**1008 SQ FT 2ND STORY ADDITION (3 BDRM 2 BA STUDY RM BALCONY) REMODEL 1ST STORY**
Permit Description:	
Work Class:	RESIDENTIAL ADD/ALT
Proposed Use:	
Permit Number:	0511280071
Status:	PERMISUD
Valuation:	$82,000.00
Contractor Company:	
Contractor Name:	ARZOLA GUERRERO;AURORA

Date:	**6/6/2005**
Permit Type:	**BL**
Description:	**1008 SQ FT 2ND STORY ADDITION (3 BDRM 2 BA STUDY RM BALCONY) REMODEL 1ST STORY**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADDITION
Proposed Use:	
Permit Number:	0501280029
Status:	PERMISUD
Valuation:	$82,000.00
Contractor Company:	
Contractor Name:	ARZOLA GUERRERO;AURORA

ADJOINING PROPERTY FINDINGS

207 N RECORD AVE

Date:	**2/9/2007**
Permit Type:	**ME**
Description:	**WALL FURNACE C/O**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0702090003
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MARAVILLA FOUNDATION

209 N RECORD AVE

Date:	**3/8/2007**
Permit Type:	**ME**
Description:	**WALL FURNACE C/O**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0703080026
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MARAVILLA FOUNDATION

ADJOINING PROPERTY FINDINGS

221 N RECORD AVE

Date:	**5/19/2008**
Permit Type:	**ME**
Description:	**WALL FURNACE C/O.**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0805190010
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MARAVILLA FOUNDATION

303 N RECORD AVE

Date:	**1/12/2000**
Permit Type:	**BL**
Description:	**LEGALIZE CONVERSION OF CARPORT TO GARAGE**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0001120004
Status:	PERMISUD
Valuation:	$1,300.00
Contractor Company:	
Contractor Name:	ZAMORA ADOLFO

ADJOINING PROPERTY FINDINGS

309 N RECORD AVE

Date:	**8/29/1994**
Permit Type:	**ME**
Description:	**HEATER**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9408290002
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MARIA GONZALEZ

Date:	**8/29/1994**
Permit Type:	**PL**
Description:	**GAS SYSTEM**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9408290004
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MARIA GONZALEZ

ADJOINING PROPERTY FINDINGS

311 N RECORD AVE

Date:	**6/25/1998**
Permit Type:	**EL**
Description:	**2 GANG ELECTRIC PANEL**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	9806250044
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ROLAND'S ELECTRIC CO.

333 N RECORD AVE

Date:	**8/3/2004**
Permit Type:	**PL**
Description:	**REPLACE LOW PRESSURE GAS SYSTEM**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0408030002
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JUAN'S PLUMBING

ADJOINING PROPERTY FINDINGS

418 N RECORD AVE

Date:	**3/5/2008**
Permit Type:	**EL**
Description:	**RE-WIRE HOUSE AND INSTALL 10 BRANCH CIRUIT.**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0803050016
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	NABBOUT CONSTRUCTION

Date:	**2/22/2008**
Permit Type:	**EL**
Description:	**REPLACE 20 PLUGS AND UPGRADE SERVICE PANEL TO 100 AMP**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0802220001
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	NABBOUT CONSTRUCTION

Date:	**9/8/2003**
Permit Type:	**PL**
Description:	**REPLACE WATER HEATER**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0309080012
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MARAVILLA FOUNDATION

ADJOINING PROPERTY FINDINGS

Date:	**8/22/2003**
Permit Type:	**ME**
Description:	**REPLACE WALL FURNACE**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0308220007
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MARAVILLA FOUNDATION

422 N RECORD AVE

Date:	**2/16/2007**
Permit Type:	**BL**
Description:	**INSTALL (4) NEW WINDOWS/RESTUCCO GARAGE AND REMOVE UNPERMITTED RESTROOM 5'X6'**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADD/ALT
Proposed Use:	
Permit Number:	0702160011
Status:	PERMISUD
Valuation:	$2,000.00
Contractor Company:	
Contractor Name:	ELORREAGA, MANUEL;JULIE A

ADJOINING PROPERTY FINDINGS

Date:	**9/25/2003**
Permit Type:	**BL**
Description:	**NEW STUCCO ON THE BACK HALF OF HOUSE**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0309250070
Status:	PERMISUD
Valuation:	$2,000.00
Contractor Company:	
Contractor Name:	ELORREAGA, MANUEL;JULIE A

Date:	**8/26/2003**
Permit Type:	**ME**
Description:	**NEW HEATING AND COOLING SYSTEM WITH -7 INLET/OUTLETS**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0308260023
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ELORREAGA, MANUEL;JULIE A

Date:	**8/26/2003**
Permit Type:	**PL**
Description:	**NEW GAS LINE FOR HEATING AND COOLING SYSTEM**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0308260029
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ELORREAGA, MANUEL;JULIE A

ADJOINING PROPERTY FINDINGS

Date: **8/26/2003**
Permit Type: **EL**
Description: **1 OUT/SW/ 1 FIX./ 1 FAU/1 A/C UNIT**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 0308260046
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: ELORREAGA, MANUEL;JULIE A

Date: **8/22/2003**
Permit Type: **PL**
Description: **COPPER RE PIPE 1 BRANCH FIXTURE**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 0308220021
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: ELORREAGA, MANUEL;JULIE A

Date: **8/22/2003**
Permit Type: **BL**
Description: **REPLACE 10' X 5' WOOD FRAME MEMBER FOR SINGLE FAMILY**

Permit Description: **BUILDING PERMIT**
Work Class: ALTERATION/REPAIR
Proposed Use:
Permit Number: 0308220048
Status: PERMISUD
Valuation: $500.00
Contractor Company:
Contractor Name: ELORREAGA, MANUEL;JULIE A

ADJOINING PROPERTY FINDINGS

Date:	**8/11/2003**
Permit Type:	**PL**
Description:	**1 BATH/SHOWER/1 SINK/ 1 TOILET**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0308110005
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ELORREAGA, MANUEL;JULIE A

Date:	**8/11/2003**
Permit Type:	**BL**
Description:	**REFRAME INTERIOR 2X3 WALLS WITH 2X4 FRAMING MEMBERS**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0308110066
Status:	PERMISUD
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	ELORREAGA, MANUEL;JULIE A

Date:	**5/28/2003**
Permit Type:	**BL**
Description:	**12 WINDOW CHANGE OUT, DRYWALL INSTALLATION ADD HALLWAY**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0305280033
Status:	PERMISUD
Valuation:	$8,000.00
Contractor Company:	
Contractor Name:	ELORREAGA, MANUEL;JULIE A

ADJOINING PROPERTY FINDINGS

Date:	**5/28/2003**
Permit Type:	**EL**
Description:	**27 OUTLETS/SWITCHES/ 9 FIXTURES/ 1 GARBAGE DISPOSAL UPGRADE 100 AMP ELECT. SERVICE PANEL**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0305280061
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ELORREAGA, MANUEL;JULIE A

424 N RECORD AVE

Date:	**1/27/2004**
Permit Type:	**ME**
Description:	**REPLACE WALL FURNACE**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	0401270021
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MARAVILLA FOUNDATION

ADJOINING PROPERTY FINDINGS

426 N RECORD AVE

Date:	**9/14/2006**
Permit Type:	**ME**
Description:	**NEW WALL FURNACE.**
Permit Description:	**MECHANICAL**
Work Class:	
Proposed Use:	
Permit Number:	0609140019
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	VOLTRON ELECTRICAL CO.

Date:	**5/8/2006**
Permit Type:	**EL**
Description:	**10 OUTLETS/4 LIGHTINGS/5 SWITCHES.**
Permit Description:	**ELECTRICAL**
Work Class:	
Proposed Use:	
Permit Number:	0605080032
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	VOLTRON ELECTRICAL CO.

ADJOINING PROPERTY FINDINGS

Date:	**5/8/2006**
Permit Type:	**BL**
Description:	**CHANGE OUT 5 WINDOWS-MUST MEET EGRESS REQUIREMENTS/INTERIOR DRYWALL**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0605080048
Status:	FINALED
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	BRECEDA FIDEL;OLGA

Date:	**6/23/2004**
Permit Type:	**BL**
Description:	**CHANGE OUT 5 WINDOWS-MUST MEET EGRESS REQUIREMENTS/INTERIOR DRYWALL**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	0406230061
Status:	PERMISUD
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	BRECEDA FIDEL;OLGA

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

APPENDIX G SITE PHOTOGRAPHS

Site Photographs
Belvedere Middle School
T37254.01

Photo: 1 **Description: Exterior view of on-site Shop building; one of two proposed school buildings to be removed**	
Photo: 2 **Description: View of utility-owned, pad-mounted transformer on the western portion of the school**	

Tetra Tech, Inc.
301 East Vanderbilt Way, Suite 450
San Bernardino, CA 92408

Taken by Heidi Yavornicky on July 7, 2017

Site Photographs
Belvedere Middle School
T37254.01

Photo: 3 **Description: View of one of several storm drains located throughout the Site**	

Photo: 4 **Description: View of apparent geotechnical boring location; one of several noted in the area of the Shop building and Physical Education building**	

Tetra Tech, Inc.
301 East Vanderbilt Way, Suite 450
San Bernardino, CA 92408

Taken by Heidi Yavornicky on July 7, 2017

Site Photographs
Belvedere Middle School
T37254.01

Photo: 5 **Description: View of former cesspool area on the central portion of the Site**	

Photo: 6 **Description: View of former agricultural instruction area on the southwestern portion of the school**	

Tetra Tech, Inc.
301 East Vanderbilt Way, Suite 450
San Bernardino, CA 92408

Taken by Heidi Yavornicky on July 7, 2017

Site Photographs
Belvedere Middle School
T37254.01

Photo: 7 **Description: View of interior of a typical on-site classroom**	
Photo: 8 **Description: View of 5-gallon buckets of floor cleaner observed in the Plant Manager's office (i.e. Utility building)**	

Tetra Tech, Inc.
301 East Vanderbilt Way, Suite 450
San Bernardino, CA 92408

Taken by Heidi Yavornicky on July 7, 2017

Site Photographs
Belvedere Middle School
T37254.01

Photo: 9 **Description: View of paints and adhesives stored for school instruction inside a classroom at the Shop building**	

Photo: 10 **Description: View of former boiler equipment inside the boiler room at the Administrative building**	

Tetra Tech, Inc.
301 East Vanderbilt Way, Suite 450
San Bernardino, CA 92408

Taken by Heidi Yavornicky on July 7, 2017

Site Photographs
Belvedere Middle School
T37254.01

Photo: 11 **Description: View of fuel bunker outside the west wall of the Shop building**	

Photo: 12 **Description: View of the deteriorated floor inside the fuel bunker**	

Tetra Tech, Inc.
301 East Vanderbilt Way, Suite 450
San Bernardino, CA 92408

Taken by Heidi Yavornicky on July 7, 2017

APPENDIX H REGULATORY AGENCY DOCUMENTATION

Matthew Rodriquez
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 27, 2017

Vanessa Calder
Tetra Tech, Inc.
301 East Vanderbilt Way, Suite 450
San Bernardino, CA 92408

See Attachment
PR4-062617-02

Dear Ms. Calder:

We have received your Public Records Act Request for records from Department of Toxic Substances Control.

After a, thorough review of our files we have found that, no such records exist at this office pertaining to the site/facility referenced above.

We would like to inform you about Envirostor, a database that provides information and documents on over 5,000 DTSC cleanup sites. Envirostor can be accessed at: http://www.envirostor.dtsc.ca.gov/public.

If you have any questions, would like further information regarding your request, please contact our Regional Records Coordinator at (714) 484-5336.

Sincerely,

Jone Barrio

Jone Barrio
Regional Records Coordinator
Cypress Administrative Services

TETRA TECH, INC.

FACSIMILE TRANSMITTAL SHEET

TO: Records Coordinators	**FROM:** Vanessa Calder
COMPANY: Department of Toxic Substances Control - Cypress	**DATE:** 6/26/2017
FAX NUMBER: (714) 484-5318	**TOTAL NO. OF PAGES INCLUDING COVER:** 1
PHONE NUMBER: (714) 484-5300	
RE: Public Records Request	

☐ URGENT ☑ FOR REVIEW ☐ PLEASE COMMENT ☑ PLEASE REPLY ☐ PLEASE RECYCLE

NOTES/COMMENTS:

Tetra Tech is conducting an environmental assessment of the following location and would like to review any files that your department may have on file. Please search your records and advise Tetra Tech regarding any available information. Thank you for your assistance, should you have any questions, please do not hesitate in calling me at (909) 382-5130, or emailing me at Vanessa.Calder@tetratech.com.

- Belvedere Middle School
  312 North Record Avenue
  Los Angeles, CA 90063

N/R

Sincerely,
TETRA TECH, INC.

Vanessa Calder, Associate Geologist

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
JUN 26 2017
DATE RECEIVED
CYPRESS OFFICE

301 EAST VANDERBILT WAY, SUITE 450
SAN BERNARDINO, CA 92408
PHONE: (909) 381-1674
FAX: (909) 889-1391

PR4-062617-02 N/R

Matthew Rodriquez
Secretary for
Environmental Protection

Department of Toxic Substances Control

Barbara A. Lee, Director
9211 Oakdale Avenue
Chatsworth, California 91311

Edmund G. Brown Jr
Governor

July 3, 2017

Ms. Vanessa Calder
Tetra Tech, Inc.
301 East Vanderbilt Way, Suite 450
San Bernardino, CA 92408

Belvedere Middle School, 312 North Record Avenue, Los Angeles, CA 90063
PR3-062617-06

Dear Ms. Calder:

We have received your Public Records Act Request for records from the Department of Toxic Substances Control.

After a thorough review of our files we have found that no such records exist at this office pertaining to the site/facility referenced above.

We would like to inform you about EnviroStor, a database that provides information and documents on over 5,000 DTSC cleanup sites. EnviroStor can be accessed at: http://www.envirostor.dtsc.ca.gov/public. Also, a computer is available in the Central Files of each DTSC Regional Office for use by community members to view EnviroStor. If you have any questions or would like further information regarding your request, please contact me at (818) 717-6522.

Sincerely,

Glenn Castillo/bh
Regional Records Coordinator

Printed on Recycled Paper

From: Quidilla, Clarita@Waterboards on behalf of WB-RB4-PublicRecords
To: Calder, Vanessa
Cc: WB-RB4-PublicRecords
Subject: Public Records Request / Tracking 2017062606
Date: Thursday, July 06, 2017 11:22:48 AM
Attachments: LARWQCB File Review Request.pdf

********* Please submit future file review requests to the LARWQCB via e-mail to RB4-publicrecords@waterboards.ca.gov.*********

Thank you for your request to review Regional Board records concerning the property on:

- Belvedere Middle School – 312 North Record Avenue, Los Angeles, CA 90063

The Regional Board has reviewed its files and has concluded that it does not have any records that are responsive to your request.

Thank you,

Clarita Quidilla
Los Angeles Regional Water Quality Control Board

From: Calder, Vanessa [mailto:Vanessa.Calder@tetratech.com]
Sent: Monday, June 26, 2017 10:24 AM
To: WB-RB4-PublicRecords <RB4-PublicRecords.RB4-PublicRecords@waterboards.ca.gov>
Subject: Records Request for Belvedere Middle School

Please refer to attachment in regards to a records request.

Thank you,

Vanessa J Calder | Associate Geologist
Direct **+1 (909) 382-5130** | Business **+1 (909) 381-1674** | Mobile **+1 (909)844-7277** | Vanessa.Calder@tetratech.com

Tetra Tech | Complex World, Clear Solutions™
301 E. Vanderbilt Way, San Bernardino, CA 92408 | tetratech.com

Los Angeles City Fire Department

Telephone (213) 978-3691
Email: LAFDrfi@lacity.org
200 N. Main St., 17th Fl., Los Angeles, CA 90012

Request for Information
Hazardous Materials Records

***COMPLETE ONE FORM FOR EACH ADDRESS/FACILITY**

Request Date: 7/6/2017

Requester's Name: Vanessa Calder Email: Vanessa.Calder@tetratech.com

Company/ Agency: Tetra Tech, Inc. PH.#: 909-382-5130

Address: 301 E. Vanderbilt Way Unit/Ste.: Ste 450

City: San Bernardino State: CA Zip: 92408

Information is requested for

PLEASE NOTE: YOU MUST PROVIDE A FACILITY ID # FOR ACTIVE/INACTIVE RECORDS.
VISIT http://www.lafd.org/public-records TO VIEW LIST OF ALL HAZARDOUS MATERIALS RECORDS.

Check all that apply: ■ Inventory Summary ■ Review File

Facility ID No: LACoFA0044481 (Facility Identifier), 98137 (Facility Explorer ID); Belvedere Middle School

Storage Address: 312 N. Record Avenue Unit/Ste.:

City: Los Angeles Zip: 90063

Reason for Request: Conducting a Phase I Environmental Site Assessment

FOR OFFICE USE ONLY

■ **NO INFORMATION ON FILE**
☐ **HARD FILE DESTROYED**
☐ **INFORMATION AVAILABLE**

Facility I.D. No.: _____

Request No.: _____

Processed Date: 7/6/2017

APPT. TO REVIEW FILE: _____

Processor Signature: _____

Fee Schedule:
*Inventory Summary** x $11.00

Request Review File Copies:

Initial Fee * $ 1.10

# of pgs. _____ x $0.10 = $_____

*Per Facility ID

TOTAL: **$**_____

Allow 10 working days for processing:

APPENDIX I CDE EXISTING SCHOOLS CHECKLIST

Preliminary Environmental Screening of Proposed Project at Existing School Site

Project: Belvedere MS

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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
Traffic and Pedestrian Safety [CCR, Title 5, 14010(l)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from an adjacent major arterial street?		X	

Preliminary Environmental Screening of Proposed Project at Existing School Site

Project: Belvedere MS

Selection Criteria	Yes	No	Comments
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	
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	
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	
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	
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	
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	
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	
Is the school on the Priority List of Schools Most at Risk from Air Pollution?	X		Belvedere MS is ranked #120 on the Priority List of Schools Most at Risk from Air Pollution.
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	
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	
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	
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	

LAUSD School/Property Name	MATES Rank 60%	Title V Rank 10%	Freeway Rank 30%	Score	Final Rank
Central LA Area New HS #9*	2	8	40	14	1
Soto St	7	149	3	20	2
Puente Charter**	7	149	8	21.5	3
Lorena St	17	149	10	28.1	4
Animo De La Hoya HS Charter**	2	4	91	28.9	5
CityLife Downtown Charter**	2	20	91	30.5	6
2nd St	13	149	27	30.8	7
Metropolitan High (Cont)	7	53	91	36.8	8
Utah St	13	40	87	37.9	9
East LA High School #1*	13	37	91	38.8	10
Para Los Ninos Cht	10	77	91	41	11
Pt Fermin	1	149	91	42.8	12
Ford Blvd	31	149	33	43.4	13
Dena	17	63	91	43.8	14
Carmen Lomas Garza PC*	5	149	91	45.2	15
Maywood ES*	6	149	91	45.8	16
Heliotrope Ave	24	59	91	47.6	17
Jardin De La Infancia	10	149	91	48.2	18
9th St	10	149	91	48.2	18
Eastman Ave	31	149	52	49.1	20
Bridge St	13	149	91	50	21
Vernon City	29	55	91	50.2	22
De La Hoya Animo	17	149	91	52.4	23
Maple PC	41	22	91	54.1	24
Nevin Ave	20	149	91	54.2	25
20th St	20	149	91	54.2	25
Jefferson High	20	149	91	54.2	25
Central Region MS #7*	20	149	91	54.2	25
Animo Jackie Robinson Charter HS (GD#2)**	41	25	91	54.4	29
Trinity St	41	34	91	55.3	30
The Accelerated School	41	36	91	55.5	31
Alliance College Ready Academy HS #4	67	149	4	56.3	32
Nueva Vista	24	149	91	56.6	33
Fishburn Ave	24	149	91	56.6	33
Woodlawn Ave	24	149	91	56.6	33
Maywood Academy HS*	24	149	91	56.6	33
Friedman Occup Ctr	67	133	16	58.3	37
Loma Vista Ave	34	108	91	58.5	38
Pacific Boulevard School*	29	149	91	59.6	39
Amanecer PC*	31	149	91	60.8	40

* School had a site-specific HRA conducted as part of New School Construction Program

** Non-District Property

LAUSD School/Property Name	MATES Rank 60%	Title V Rank 10%	Freeway Rank 30%	Score	Final Rank
San Pedro St	67	107	37	62	41
Corona Ave	34	149	91	62.6	42
San Antonio	34	149	91	62.6	42
Nimitz Middle	34	149	91	62.6	42
Huntington Park ES*	34	149	91	62.6	42
Martha Escutia PC*	34	149	91	62.6	42
South Region MS #2	34	149	91	62.6	42
East Los Angeles Occup Ctr	85	29	42	66.5	48
Synergy Chtr	41	147	91	66.6	49
28th St	41	149	91	66.8	50
Wadsworth Ave	41	149	91	66.8	50
Adams Middle	41	149	91	66.8	50
Animo Jefferson Charter HS (GD#3)**	41	149	91	66.8	50
Central LA Area New MS #4*	41	149	91	66.8	50
Central Region ES #17*	41	149	91	66.8	50
Central Region ES #18*	41	149	91	66.8	50
Ricardo Lizarraga ES*	41	149	91	66.8	50
Downtown Value School	67	149	43	68	58
Olympic PC*	54	149	70	68.3	59
Camino Nuevo Chtr Acad**	54	149	91	74.6	60
NEW Academy - Sci & Arts	54	149	91	74.6	60
Esperanza	54	149	91	74.6	60
Gratts	54	149	91	74.6	60
10th St	54	149	91	74.6	60
Camino Nuevo Charter MS**	54	149	91	74.6	60
Mid-City Adult Basic Education	54	149	91	74.6	60
Los Angelitos Ch Ctr**	54	149	91	74.6	60
Central Region Gratts EEC*	54	149	91	74.6	60
John H. Liechty MS*	54	149	91	74.6	60
MacArthur Park PC*	54	149	91	74.6	60
Miguel Contreras Learning Complex*	54	149	91	74.6	60
Sunrise	76	149	49	75.2	72
Wilmington Skills Ctr	83	2	91	77.3	73
Island ES*	83	13	91	78.4	74
Bravo Med Mag High	85	7	91	79	75
Santee Education Complex*	67	126	91	80.1	76
Norwood St	67	149	91	82.4	77
Orthopaedic Medical Magnet High	67	149	91	82.4	77
Jefferson New Continuation HS #1*	67	149	91	82.4	77
Vista Hermosa HS*	130	15	17	84.6	80

* School had a site-specific HRA conducted as part of New School Construction Program

** Non-District Property

LAUSD School/Property Name	MATES Rank 60%	Title V Rank 10%	Freeway Rank 30%	Score	Final Rank
Murchison St	85	70	91	85.3	81
Bell Education Center*	75	149	91	87.2	82
Breed St	76	149	91	87.8	83
Euclid Ave	76	149	91	87.8	83
1st St	76	149	91	87.8	83
Hollenbeck Middle	76	149	91	87.8	83
Stevenson Middle	76	149	91	87.8	83
Roosevelt High	76	149	91	87.8	83
Wilmington Park	100	10	91	88.3	89
Huntington Park High	85	143	91	92.6	90
Ann St	101	48	91	92.7	91
Pacific Blvd Spec Ed Ctr	85	149	91	93.2	92
Evergreen Ave	85	149	91	93.2	92
Malabar St	85	149	91	93.2	92
Middleton St	85	149	91	93.2	92
Miles Ave	85	149	91	93.2	92
Sheridan St	85	149	91	93.2	92
Gage Middle	85	149	91	93.2	92
Alliance/Huntington Park College Ready Academy**	85	149	91	93.2	92
Aspire/Huntington Park Charter Academy**	85	149	91	93.2	92
Middleton Primary Center*	85	149	91	93.2	92
South Region HS #7*	85	149	91	93.2	92
Downtown Bus Mag High	130	149	6	94.7	103
Solano Ave	101	149	70	96.5	104
Animo Downtown HS Charter**	101	94	91	97.3	105
KIPP LA College Prep Charter MS**	101	96	91	97.5	106
Albion St	101	99	91	97.8	107
Marianna Ave	112	149	55	98.6	108
32nd St Magnet	125	3	91	102.6	109
Kipp LA College Prep	101	149	91	102.8	110
Perez Spec Ed Ctr	149	149	1	104.6	111
East LA Star Adult Education*	112	149	76	104.9	112
15th St	107	140	91	105.5	113
Cabrillo Ave	107	149	91	106.4	114
Dana Middle	107	149	91	106.4	114
Port of Los Angeles HS	107	149	91	106.4	114
Alexander Jr. Science Center*	125	47	91	107	117
Plasencia	130	149	47	107	117
Dominguez	111	149	91	108.8	119
Belvedere	112	149	91	109.4	120

***** **School had a site-specific HRA conducted as part of New School Construction Program**

****** **Non-District Property**

LAUSD School/Property Name	MATES Rank 60%	Title V Rank 10%	Freeway Rank 30%	Score	Final Rank
Hammel St	112	149	91	109.4	120
Rowan Ave	112	149	91	109.4	120
Belvedere Middle	112	149	91	109.4	120
Ramona High (Opp)	112	149	91	109.4	120
Central Region EEC #2*	112	149	91	109.4	120
Humphreys Ave	149	149	21	110.6	126
Evans Adult	130	149	59	110.6	127
Harrison	137	86	73	112.7	128
Hamasaki	149	149	30	113.3	129
Ascot Ave	120	149	91	114.2	130
Arco Iris Pri Ctr	120	149	91	114.2	130
Holmes Ave	120	149	91	114.2	130
Hooper Ave	120	149	91	114.2	130
Roberti Ch Ctr**	120	149	91	114.2	130
South Region HS #2*	137	51	91	114.6	135
Harbor Occ Ctr	135	149	64	115.1	136
Menlo Ave	125	149	91	117.2	137
Weemes	125	149	91	117.2	137
Manual Arts High	125	149	91	117.2	137
Barton Hill	135	149	79	119.6	140
Castelar	130	149	91	120.2	141
Van Deene Ave	148	149	63	122.6	142
Kennedy	137	145	91	124	143
City Terrace	137	149	91	124.4	144
Florence Ave	137	149	91	124.4	144
Lillian St	137	149	91	124.4	144
Miramonte	137	149	91	124.4	144
Edison Middle	137	149	91	124.4	144
Eastside Learning Center	137	149	91	124.4	144
Central Region ES #19 and EEC*	137	149	91	124.4	144
South Region ES #2*	137	149	91	124.4	144
Lane	149	98	91	126.5	152
Dorris Pl	196	96	13	131.1	153
Ft MacArthur*	149	149	91	131.6	154
San Pedro Skills Center	149	149	91	131.6	154
Brooklyn Ave	149	149	91	131.6	154
4th St	149	149	91	131.6	154
Leland St	149	149	91	131.6	154
White Point	149	149	91	131.6	154
Griffith Middle	149	149	91	131.6	154

* School had a site-specific HRA conducted as part of New School Construction Program

** Non-District Property

LAUSD School/Property Name	MATES Rank 60%	Title V Rank 10%	Freeway Rank 30%	Score	Final Rank
Garfield High	149	149	91	131.6	154
4th St. New PC*	149	149	91	131.6	154
Camino Nuevo Charter HS**	170	149	68	137.3	163
Camino Nuevo HS Charter**	170	149	68	137.3	163
Nueva Esperanza Chtr**	162	149	91	139.4	165
Politi	162	149	91	139.4	165
McArthur Park Pri Ctr	162	149	91	139.4	165
Hoover St	162	149	91	139.4	165
Magnolia Ave	162	149	91	139.4	165
Berendo Middle	162	149	91	139.4	165
Charles White ES*	162	149	91	139.4	165
Mariposa-Nabi PC*	162	149	91	139.4	165
Central LA New Learning Center #1 MS/HS*	170	149	91	144.2	173
Metropolitan Skills Ctr	170	149	91	144.2	173
White	170	149	91	144.2	173
Lafayette Park PC	170	149	91	144.2	173
Commonwealth Ave	170	149	91	144.2	173
White House Pl Pri Ctr	170	149	91	144.2	173
Virgil Middle	170	149	91	144.2	173
Central City Value	170	149	91	144.2	173
LA Leadership Academy Charter**	170	149	91	144.2	173
Central City Value School	170	149	91	144.2	173
Central LA Area New MS #3*	170	149	91	144.2	173
Frank del Olmo ES*	170	149	91	144.2	173
Los Angeles Leadership Academy Charter**	170	149	91	144.2	173
Multnomah St	187	104	91	149.9	186
Lincoln High	187	115	91	151	187
East Los Angeles Skills Ctr	187	119	91	151.4	188
Annalee Ave	185	149	91	153.2	189
Broadacres Ave	185	149	91	153.2	189
Gates St	187	138	91	153.3	191
135th St	212	146	40	153.8	192
Griffin Ave	187	149	91	154.4	193
Los Angeles Academy Middle	201	87	91	156.6	194
Wilmington Middle	192	149	91	157.4	195
Fries Ave	192	149	91	157.4	195
Gulf Ave	192	149	91	157.4	195
Banning High	192	149	91	157.4	195
Clifford St	196	149	89	159.2	199
Elysian Heights	196	149	91	159.8	200
Logan St	196	149	91	159.8	200
Berkeley Ave Ch Ctr	196	149	91	159.8	200

***** **School had a site-specific HRA conducted as part of New School Construction Program**

****** **Non-District Property**

APPENDIX G

Noise and Vibration Impact Analysis

NOISE AND VIBRATION IMPACT ANALYSIS

THE BELVEDERE MIDDLE SCHOOL COMPREHENSIVE MODERNIZATION PROJECT

LOS ANGELES COUNTY, CALIFORNIA

Prepared by:

Sara Friedman Gerrick
Giroux & Associates
1800 E. Garry St. #205
Santa Ana, CA 92705

Prepared for:

Envicom Corporation
Attn: Carl Linder
4165 E Thousand Oaks Blvd. Suite 290
Westlake Village, CA, 91362

Date:

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Project No.: P19-015 N

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NOISE AND VIBRATION SETTING

NOISE BACKGROUND

Sound is mechanical energy transmitted by pressure waves in a compressible medium such as air. Noise is commonly defined as unwanted sound. Sound can be characterized by a variety of parameters that describe the rates of oscillation of sound waves, the distance between successive troughs or crests, the speed of propagation, and the pressure level or energy content of a given sound wave. In particular, the sound pressure level has become the most common descriptor used to characterize the loudness of an ambient sound level. The unit of sound pressure ratioed to an assumed zero sound level is called a decibel (dB).

Because sound or noise can vary in intensity by over one million times within the range of human hearing, a logarithmic loudness scale similar to the Richter Scale is used to keep sound intensity numbers at a convenient and manageable level. Since the human ear is not equally sensitive to all sound frequencies within the entire spectrum, noise levels at maximum human sensitivity are factored more heavily into sound descriptions in a process called "A-weighting", written as dB(A). Any further reference to decibels in this discussion written as "dB" should be understood to be A-weighted.

Time variations in noise exposure are typically expressed in terms of a steady-state energy level equal to the energy content of the time varying period (called Leq), or, alternately, as a statistical description of the sound level that is exceeded over some fraction of a given observation period. Lmax and Lmin are the highest and lowest values measured by a sound level meter during the monitoring interval.

Since the sensitivity to noise increases during the evening and at night, and because excessive noise interferes with the ability to sleep, 24-hour descriptors have been developed that incorporate artificial noise penalties added to quiet time noise events. The Community Noise Equivalent Level, CNEL, is a measure of the cumulative noise exposure in a community, with a 5 dB penalty added to evening (7:00 p.m. – 10:00 p.m.) noise levels and a 10 dB addition to nocturnal (10:00 p.m. – 7:00 a.m.) noise levels. The Day/Night Average Sound Level, Ldn, is essentially the same as CNEL, with the exception that the evening time period is dropped and all occurrences during this three-hour period are grouped into the daytime period. A Ldn or CNEL standard is required by state law.[1]

GROUNDBORNE VIBRATION BACKGROUND

Vibration is an oscillatory motion through a solid medium in which the motion's amplitude can be described in terms of displacement, velocity, or acceleration. Vibration is normally associated with activities such as railroads or vibration-intensive stationary sources, but it can also be associated with construction equipment, such as jackhammers, pile drivers, and hydraulic hammers. Vibration displacement is the distance that a point on a surface moves away from its original static position. The instantaneous speed that a point on a surface moves is described as the velocity, and the rate of change of the speed is described as the acceleration. Each of these descriptors can be used to correlate vibration to building damage, and acceptable equipment vibration levels.

[1] State of California, General Plan Guidelines, 2017, Governor's Office of Planning and Research.

Construction activities generate groundborne vibration when heavy equipment travels over unpaved surfaces or when it is engaged in soil movement. The effects of groundborne vibration include discernible movement of building floors, rattling of windows, shaking of items on shelves or hanging on walls, and rumbling sounds. Vibration-related problems generally occur due to resonances in the structural components of a building, because structures amplify groundborne vibration. Within the "soft" sedimentary surfaces of much of Southern California, ground vibration is quickly damped out. Groundborne vibration is almost never annoying to people who are outdoors.[2]

Vibration is best measured in velocity and acceleration. The peak particle velocity (PPV) or the root mean square (RMS) velocity is usually used to describe vibration amplitudes. The PPV is defined as the maximum instantaneous peak of the vibration signal and RMS is defined as the square root of the average of the squared amplitude of the signal. The PPV is more appropriate for evaluating potential building damage. The unit for PPV velocity is normally inches per second (in/sec). Another vibration descriptor, often used for describing annoyance levels, is presented and discussed in VdBA units, in order to compress the range of numbers required to describe the vibration. In this study, all PPV and RMS velocity levels are in in/sec and all vibration levels are in dBA relative to one microinch per second (abbreviated as VdB). Typically, groundborne vibration generated by human activities attenuates rapidly with distance from the source of the vibration. Thresholds for vibration induced architectural damage and annoyance levels are addressed later in this report.

[2] Federal Transit Administration Office of Planning and Environment. 2006. Transit Noise and Vibration Impact Assessment. May.

REGULATORY SETTING

COUNTY NOISE COMPATIBILITY GUIDELINES

Table 1 shows the noise/land use compatibility guidelines as articulated in Chapter 11 of the County of Los Angeles General Plan EIR Table 5.12-5. Exposures up to 65 dB CNEL for sensitive uses are considered conditionally acceptable if all measures to reduce such exposure have been taken. Noise levels above 70 dB CNEL are considered normally unacceptable except in unusual circumstances. These standards apply primarily to any outdoor uses such as recreational space. Such standards allow for both outdoor conversational or contemplative comfort, as well as allowing indoor uses to be negatively impacted by outdoor noise without use of any enhanced structural noise reductions.

Table 1
California Land Use Compatibility Guidelines
for Exterior Community Noise
(dBA CNEL)

Land Use	Normally Acceptable[1]	Conditionally Acceptable[2]	Normally Unacceptable[3]	Clearly Unacceptable[4]
Single Family, Duplex, Mobile Homes	50-60	55-70	70-75	Above 70
Multi-Family Homes	50-65	60-70	70-75	Above 70
Schools, Libraries, Churches, Hospitals, Nursing Homes	50-70	60-70	70-80	Above 80
Transient Lodging-Motels, Hotels	50-65	60-70	70-80	Above 80
Auditoriums, Concert Halls, Amphitheaters	-	50-70	-	Above 65
Sports Arena, Outdoor Spectator Sports	-	50-75	-	Above 70
Playgrounds, Neighborhood Parks	50-70	-	67-75	Above 72
Golf Courses, Riding Stables, Water Recreation, Cemeteries	50-75	-	70-80	Above 80
Office Buildings, Business and Professional Commercial	50-70	67-77	Above 75	-
Industrial, Manufacturing, Utilities, Agriculture	50-75	70-80	Above 75	-

Source: State of California, General Plan Guidelines 2017, Governor's Office of Planning and Research.
Notes:
[1] 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.
[2] Conditionally Acceptable: New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.
[3] Normally Unacceptable: New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.
[4] Clearly Unacceptable: New construction or development should generally not be undertaken.

COUNTY NOISE ORDINANCE

While LAUSD is exempt from local jurisdictional municipal codes, the County typically considers local plans and policies for the communities surrounding its facilities. The proposed Project is located within the County of Los Angeles. Applicable Los Angeles and LAUSD noise standards and policies are described below.

For stationary noise sources located proximate to residential uses, Los Angeles County has adopted a detailed Noise Control Ordinance, which is codified in Chapter 12.08, Noise Control, of Title 12, Environmental Protection, of the Los Angeles County Code. Noise from one land use crossing the property line of an adjacent property is regulated by Section 12.08.390 of the Los Angeles County Code. These standards are expressed in terms of a mean (50th percentile) noise level, which is the noise level allowed for up to 30 minutes in any hour. Some short-term noise levels may exceed the 50th percentile standard, up to a maximum of 20 dB above the allowable mean.

The Los Angeles County Noise Control Ordinance allowable exterior noise levels for various land uses are shown in **Table 2**. A mean noise level of 50 dBA L_{50} (50th percentile, or "L_{50}") by day and 45 dB L_{50} for residential areas at night is the standard applicable at the nearest existing homes to the proposed project site. However, when these noise levels are already exceeded by ambient noise levels, then the ambient level becomes the standard. The ordinance also establishes the maximum allowable noise exposure for all land uses. In residential areas, daytime noise exposure is not to exceed 70 dBA for any period of time, and nighttime noise exposure is not to exceed 65 dBA for any period of time.

Table 2
Los Angeles County Noise Control Ordinance Standards

Noise Zone	Land Use (Receptor Property)	Time Intervals	Exterior Noise Level (dB)				
			1 (L_{50}) 30 Min/Hr	2 (L_{25}) 15 Min/Hr	3 ($L_{8.3}$) 35 Min/Hr	4 ($L_{1.7}$) 71 Min/Hr	5 (L_0) at no time
I	Noise-Sensitive Area	Anytime	45	50	55	60	65
II	Residential Properties	10:00 p.m. to 7:00 a.m. (nighttime) 7:00 a.m. to 10:00 p.m. (daytime)	45 50	50 55	55 60	60 65	65 70
III	Commercial Properties	10:00 p.m. to 7:00 a.m. (nighttime) 7:00 a.m. to 10:00 p.m. (daytime)	55 60	60 65	65 70	70 75	75 80
IV	Industrial Properties	Anytime	70	75	80	85	90

Source: Los Angeles County Noise Control Ordinance, Exterior Noise Standards, Chapter 12.08.390.

Notes:

1. **Los Angeles County Noise Standard No. 1, L_{50}**: Noise levels which may not be exceeded for a cumulative period of more than 30 minutes in any hour. If the ambient L_{50} exceeds the levels listed above, then the ambient L_{50} becomes the exterior noise level for Standard No. 1.

2. **Los Angeles County Noise Standard No. 2, L_{25}:** Noise levels which may not be exceeded for a cumulative period of more than 15 minutes in any hour. If the ambient L_{25} exceeds the levels listed above, then the ambient L_{25} becomes the exterior noise level for Standard No. 2.

3. **Los Angeles County Noise Standard No. 3, $L_{8.3}$:** Noise levels which may not be exceeded for a cumulative period of more than 5 minutes in any hour. If the ambient $L_{8.3}$ exceeds the levels listed above, then the ambient $L_{8.3}$ becomes the exterior noise level for Standard No. 3.

4. **Los Angeles County Noise Standard No. 4, $L_{1.7}$:** Noise levels which may not be exceeded for a cumulative period of more than 1 minute in any hour. If the ambient $L_{1.7}$ exceeds the levels listed above, then the ambient $L_{1.7}$ becomes the exterior noise level for Standard No. 4.

5. **Los Angeles County Noise Standard No. 5, L_0:** Noise levels which may not be exceeded for any period of time. If the ambient L_0 exceeds the levels listed above, then the ambient L_0 becomes the exterior noise level for Standard No. 5.

CONSTRUCTION NOISE REGULATIONS

The Los Angeles County Noise Control Ordinance restricts and regulates hours of construction operation and levels of construction noise. In Exterior Noise Standards, Chapter 12.08, Part 4, Specific Noise Restrictions, Section 12.08.440, construction noise is restricted from 7:00 p.m. to 7:00 a.m. weekdays and at any time on Sundays or holidays when it creates a noise disturbance across a residential or commercial property line.

As stated in Section 12.08.440 B, for noise restrictions at affected residential structures, the contractor is to conduct construction activities in such a manner that the maximum noise levels at the affected buildings will not exceed those listed below. The ordinance is somewhat ambiguous in its definition of "maximum." In practice, the ordinance is interpreted to refer to the maximum one-hour average Leq as the appropriate construction activity noise performance standard.

Construction noise is additionally addressed in Chapter 12 of the County Code. The Code prohibits disturbing noise near residential occupancies between 8 p.m. and 6:30 a.m. on any day and all day on Sunday (Section 12.12.030). It does not contain any numerical performance standards during allowed construction times. Due to the ordinance ambiguity in two minimally separated sections of the County Code, an intermediate definition of "maximum" as the loudest single hour is typically employed. For this study, the more restrictive 7 a.m. to 7 p.m. noise standard is applied.

Specific noise standards for construction activities pursuant to the Los Angeles County Code, Chapter 12.08.440, are as follows below.

Noise Restrictions at Affected Structures. The contractor shall conduct construction activities in such a manner that the maximum noise levels at the affected buildings will not exceed those listed in the following schedule:

1. At Residential Structures.

   a. Mobile Equipment. Maximum noise levels from mobile equipment:

	Single-family Residential (dBA)	Multi-family Residential (dBA)	Semi-residential/ Commercial (dBA)
Daily, except Sundays and legal holidays, 7:00 a.m. to 8:00 p.m.	75	80	85
Daily, 8:00 p.m. to 7:00 a.m. and all day Sunday and legal holidays.	60	65	70

   b. Stationary Equipment. Maximum noise level for repetitively use of stationary equipment:

	Single-family Residential (dBA)	Multi-family Residential (dBA)	Semi-residential/ Commercial (dBA)
Daily, except Sundays and legal holidays, 7:00 a.m. to 8:00 p.m.	60	65	70
Daily, 8:00 p.m. to 7:00 a.m. and all day Sunday and legal holidays.	50	55	60

LOS ANGELES UNIFIED SCHOOL DISTRICT PROGRAM EIR

The Program EIR outlines the following LAUSD noise level thresholds for school sites according to Education Code Section 17215. The LAUSD has established maximum allowable noise levels to protect students and staff from noise impacts. LAUSD's exterior noise standard is 67 dBA Leq and the interior noise standard is 45 dBA Leq. A noise level increase of 3 dBA or more over ambient noise levels is considered significant for existing schools and would require mitigation to achieve levels within 2 dBA or pre-project ambient noise levels. Therefore, the Project would result in a significant long-term noise impact if:

- Exterior noise levels exceed 67 dBA Leq;
- Interior classroom noise levels exceed 45 dBA Leq; or
- Permanent increase noise levels at nearby noise-sensitive land uses exceed 3 dBA CNEL

If any proposed mitigation measures do not reduce noise impacts to a level of insignificance, the project applicant shall develop new and appropriate measures to effectively mitigate construction related noise at the affected school. Provisions shall be made to allow the school and or designated representative(s) to notify the project applicant when such measures are warranted. The LAUSD Program EIR for School Upgrade Program also establishes Standard Conditions (SCs) for reducing impacts on noise and vibration in areas where future projects would be implemented. These standards are considered to be ***LAUSD Noise Standard Conditions of Approval*** as shown in **Table 3**.

Table 3, LAUSD Standard Conditions of Approval

SC-N-1 Exterior Campus Noise
The LAUSD shall include features such as sound walls, building configuration, and other design features in order to attenuate exterior noise levels on a school campus to less than 70 dBA L10
or 67 dBA Leq.

SC-N-2 Interior Classroom Noise.
If interior classroom noise levels is greater than 45 dBA Leq:

The standard condition shall be 45 dBA L_{eq} with a target of 40 dBA L_{eq} (unoccupied), and a reverberation time 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.

- New construction should achieve classroom acoustical quality consistent with the current School Design Guide and CHPS (California High Performance Schools) standard of 45 dBA Leq.
- New HVAC installations should be designed to achieve the lowest possible noise level consistent with the current School Design Guide. HVAC systems shall be designed so that noise from the system does not cause the ambient noise in a classroom to exceed the current School Design Guide and CHPS standard of 45 dBA Leq
- Modernization of existing facilities and/or HVAC replacement projects should improve the sound performance of the HVAC system over the existing system.
- The District's purchase of new units should give preference to HVAC manufacturers that sell the lowest noise level units at the lowest cost.
- Existing HVAC units operating in excess of 45 dBA Leq inside classrooms should be modified.

SC-N-3 Operational Noise:
If operational noise levels exceed local noise standards, policies, or ordinances at noise-sensitive land uses:

LAUSD shall incorporate long-term permanent noise attenuation measures buffer zones, sound barriers (such as buildings, masonry walls, enclosed bleacher foot wells, or other special design features) between playgrounds, stadiums, and other noise generating facilities and adjacent residential or noise-sensitive land uses, to reduce noise levels to meet jurisdictional standards or an increase of 3 dBA or less over ambient.

Operational noise attenuation measures include, but are not limited to:

- buffer zones
- berms
- sound barriers:
- buildings
- masonry walls
- enclosed bleacher foot wells
- other site-specific project design features.

SC-N-4 Construction Noise and Vibration (Annoyance)

Prior to and during construction LAUSD 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.

LAUSD Standard Conditions of Approval (continued)

SC-N-5 Vibration Structural Damage
If Rock blasting is required LAUSD shall require the Construction Contractor to minimize blasting for all demolition and construction activities, where feasible.

SC-N-6 Vibration Structural Damage
If Pile Driving is required:

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-7 Vibration Structural Damage.
If vibration intensive activities are planned within 25 feet of a historic building or structure:

LAUSD shall meet with the construction contractor to discuss alternative methods of demolition and construction for activities within 25 feet of a historic building to reduce vibration impacts. During the preconstruction meeting, the construction contractor shall identify demolition methods not involving vibration-intensive construction equipment or activities. For example: sawing into sections that can be loaded onto trucks results in lower vibration levels than demolition by hydraulic hammers.

- Prior to construction activities, the construction contractor shall inspect and report on the current foundation and structural condition of the historic building
- The construction contractor shall implement alternative methods identified in the preconstruction meeting during demolition, excavation, and construction for work done within 25 feet of the historic building.
- The construction contractor shall avoid use of vibratory rollers and packers adjacent to a historic building.
- During demolition the construction contractor shall not phase any ground-impacting operations near a historic building to occur at the same time as any ground impacting operation associated with demolition and construction of a new building.

During demolition and construction, if any vibration levels cause cosmetic or structural damage to a historic building the District shall issue “stop-work” orders to the construction contractor immediately to prevent further damage. Work shall not restart until the building is stabilized and/or preventive measures to relieve further damage to the building are implemented.

SC-N-8 Construction Noise.
If exterior construction requires the use of large, heavy or noisy construction equipment within 500 feet of a non-LAUSD sensitive receptor

Projects within 500 feet of a non-LAUSD sensitive receptor, such as a residence, shall be reviewed by OEHS to determine what, if any, feasible project specific noise reduction measures are needed.

The Construction Contractor shall implement project specific noise reduction measures identified by OEHS. Noise reduction measures may 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

LAUSD Standard Conditions of Approval (continued)

- Substitute Methods – using quieter methods and/or equipment
- Exhaust Mufflers – ensuring equipment have quality mufflers installed
- Lubrication & Maintenance – well maintained equipment is
- Reduced Power Operation – use only necessary size and power
- Limit Equipment On-Site – only have necessary equipment onsite
- Noise Compliance Monitoring – technician on site to ensure compliance
- Quieter Backup Alarms – manually-adjustable or ambient sensitive types Path Controls

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 noise shall be monitored from the construction activity to ensure that construction noise is not obtrusive

SC-N-9 Construction Noise.
If use of large, heavy or noisy construction equipment is operating on a LAUSD campus

Construction Contractor shall ensure that LAUSD interior classroom noise and exterior noise standards are met to the maximum extent feasible, or that construction noise is not disruptive to the school environment, through implementation of noise control measures, as necessary.[3] Noise control measures may include, but are not limited to:

Path Controls

- Noise Attenuation Barriers[4] – Temporary noise attenuation barriers installed blocking the line of sight between the noise source and the receiver. Intervening barriers already present, such as berms or buildings, may provide sufficient noise attenuation, eliminating the need for installing noise attenuation barriers.

[3] The need for noise control measures depends on the type and quantity of equipment being used, the work being performed, and the proximity of the construction activity to active exterior use areas (e.g., playgrounds, athletic fields, etc.) or classrooms. For example, the need for noise control measures may be required if a major construction project (e.g. demolition of a building and/or construction of a new building) takes place on an active LAUSD campus.

[4] While the height and Sound Transmission Class (STC) rating of the Noise Attenuation Barrier needed will depend on the project specific conditions, an example of the specifications for a Noise Attenuation Barrier would be: Noise Attenuation Barriers shall be a minimum height of 12 feet and have a minimum Sound Transmission Class rating of 25 (STC-25).

LAUSD Standard Conditions of Approval (continued)

Source Controls

- 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 areas: only between 7:00 AM and 7:00 PM).
- Substitute Methods – using quieter methods and/or equipment.
- Exhaust Mufflers – ensuring equipment has 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.
- Quieter Backup Alarms – manually-adjustable or ambient sensitive types.

If OEHS determines that the above noise reduction measures will not reduce construction noise to below the levels permitted by LAUSD's noise standards LAUSD shall mandate that construction bid contracts include the following receptor controls:

Receptor Controls

- Temporary Window Treatments – temporarily reinforcing the building's noise reduction ability.

Temporary Relocation – in extreme otherwise unmitigable cases, students shall be moved to temporary classrooms / facilities away from the construction activity.

Construction activities, especially heavy equipment, will create short-term noise increases near the Project. Such impacts may be important for possible nearby noise-sensitive receptors, such as any existing residential uses as well as existing campus classrooms. This project includes truck haul during grading and excavation. In addition, construction workers and vendors will travel to and from the site. This report also evaluates the impacts of these trips upon the Project and adjacent sensitive uses.

REGULATORY SETTING VIBRATION

Over the years, numerous vibration criteria and standards have been suggested by researchers, organizations, and governmental agencies. There are no Caltrans or Federal Highway Administration standards for vibration. Vibration thresholds adopted for use in this project are shown later in the report.

LAND USE NOISE IMPACTS

IMPACT SIGNIFICANCE CRITERIA

Appendix G

According to Appendix G, Environmental Checklist, of the California Environmental Quality Act (CEQA), noise impacts are considered significant if:

1) Expose people to, or generate, noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;
2) Expose people to, or generate, excessive groundborne vibration or groundborne noise;
3) Result in a substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project; and/or
4) Result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project.

Los Angeles Municipal Code

The most stringent Noise Ordinance standard for short-term construction equipment noise is 75 dBA for residential receivers for mobile equipment. If stationary equipment such as a crusher, the noise standard is lowered to 60 dBA Leq for single family structures and 65 dBA Leq for multi-family buildings.

Los Angeles Unified School District

The Program EIR outlines the following LAUSD noise level thresholds for school sites according to Education Code Section 17215. The Project would result in a significant long-term noise impact if:

1) the exterior noise levels exceed 67 dBA Leq;
2) the interior classroom noise levels exceed 45 dBA Leq; or
3) a permanent increase noise levels at nearby noise-sensitive land uses exceed 3 dBA CNEL

The Program EIR also includes LAUSD Standard Conditions (SC) of Approval. These standards are provided in **Table 3.**

Traffic Noise

A project would have a long-term operational noise impact if noise levels from project operations cause the ambient noise levels at the property line of affected uses to increase by 3 dBA CNEL, and noise levels reach, or are within the "normally unacceptable," or "clearly unacceptable" category, or increase by 5 dBA CNEL, or greater.

Vibration

The State CEQA Guidelines do not define the levels at which ground-borne vibration or ground-borne noise are considered "excessive." The County of Los Angeles has not adopted any thresholds for ground-borne vibration impacts. However, the FTA has adopted vibration standards to evaluate potential impacts related to construction activities. This analysis utilizes the FTA thresholds to evaluate the construction-related and operational impacts of the Project.

ADJACENT NOISE SENSITIVE USES

The proposed Project site is bordered by Cesar E. Chavez Avenue to the north, a publicly accessible field to the east, Michigan Avenue to the south, and Record Avenue to the west. General vehicular access to the site is provided via one driveway along Cesar E. Chavez Avenue (to the maintenance and operations parking lot) and one driveway along Michigan Avenue (to the staff and faculty parking lot).

Some land uses are considered more sensitive to noise than others due to the amount of noise exposure and the types of activities typically involved at the receptor location. The Los Angeles CEQA Thresholds Guide states that residences, schools, motels and hotels, libraries, religious institutions, hospitals, nursing homes, and parks are generally more sensitive to noise than commercial and industrial land uses.

Off-road construction equipment would only impact receptors in proximity to the school site itself. The residential uses west of the school site, across Record Avenue would be most impacted. There are also residential uses to the south of the campus, across Michigan Avenue and residences east of the site, across San Carlos Avenue (west of the sports field) but these uses will have less noise exposure to the on-site construction. Distances from each area to the closest school construction area is shown below:

Sensitive Use	**Distance to Closest Campus Activity (feet)**
Residents to the east across Record Ave	120
Residents to the north across Cesar Chavez	270
Residents to the south across Michigan Ave	230
Residents to the east across San Carlos	150

Project construction traffic will consist of construction workers primarily driving automobiles and light duty trucks as well as heavy duty 14 cy haul trucks. Additionally, there are 8-12 vendor deliveries expected per day. Vendor deliveries could require a flatbed truck or box trucks, like UPS or FedEx.

Traffic impacts from construction activities would be expected to occur primarily as a result of the following types of activities:

- Increases in truck traffic associated with export of fill materials and delivery of construction materials,
- Increases in automobile traffic associated with construction workers traveling to and from

the site, and

- Delivery of construction materials via flat bed trucks or box cars

In addition to off-site receptors, the school itself will be impacted during construction activities.

BASELINE NOISE LEVELS

Noise measurements were taken in order to document existing baseline levels in the area, both for noise-sensitive receptors adjacent to the Project Site, as well as to determine site compatibility with the Proposed construction. Measurements were taken by Giroux & Associates on, Thursday, March 14, 2019, at three on-site locations for 15 minutes each. The results of the measurements are shown below, and a map of the locations is shown in **Figure 1**.

Meter	Start Time	Leq (dBA)	Lmax/Lmin (dBA)	Notes:
A	11:30 AM	65.0	77/47	noise from cars on Chavez
B	11:45 AM	65.4	84/45	same as above and jet aircraft
C	2:15 PM	68.7	81/55	lunch recess and play

At the northwest corner of the site, on Record Avenue south of Cesar Chavez the measured noise level was approximately 65 dBA Leq. At the northeastern corner of the site the readings were similar. Most of the noise at these sites was from traffic on Cesar Chavez Avenue. Both monitors were approximately 150 feet south of the Cesar Chavez Avenue centerline.

At the southern central portion of the site, slightly north of Michigan Avenue, the noise monitoring captured recess noise and play activities. Readings at this location were slightly higher than those adjacent to Cesar Chavez, with an observed Leq of 68.7 dBA.

Figure 1
Noise Meter Locations



CONSTRUCTION NOISE ANALYSIS

ON-ROAD NOISE AND VIBRATION

Traffic Noise

Although construction truck haul routes for the Project have not been finalized, the construction traffic analysis identified potential haul routes based on the location of landfill facilities within the vicinity of the Project. The two most viable landfill facilities are Scholl Canyon to the north and Puente Hills to the east.

Haul trucks destined to the Puente Hills landfill would most likely travel along Cesar E. Chavez Avenue and use Gage Avenue to access the SR 60 eastbound on-ramp. Haul trucks enroute to Scholl Canyon landfill would travel along Cesar Chavez Avenue and use Ford Boulevard to access the I-710 northbound on-ramp.

In addition to a possibility of two travel routes, two construction scenarios are discussed in this report. Due to school operations, construction traffic was divided into two scenarios: a modified construction schedule when school is in session and a more intense construction operation during the summer when school is out.

Therefore, impact to off-site sensitive receptors would vary based on the selected haul travel route (SR 60 versus I-710). Once a haul route is identified, intensity of construction related impacts to sensitive receptors would vary based on season (school in session or summer).

While schools are in session and students are present, an average of 50 construction workers would be allowed on site. During summer months, construction activities would increase to a maximum of 150 construction workers on site during the day. The maximum construction trip activity, representing worst-case traffic conditions, would occur during two separate construction phases. The site prep/grading and excavation phase includes heavy vehicles that are predominately oriented toward freeway routes, while the building construction phase is comprised of more worker trips in passenger vehicles that have diverse origins and destinations.

It was determined that the worst-case truck demand would occur during the site prep/grading and excavation phase and generate 35 trucks per day (each with a capacity of 14 cubic yards). Additionally, the site prep/grading and excavation phase anticipates 50 construction workers and up to eight vendor vehicles per day. This phase was assumed to occur while schools are in session.

The building construction phase is planned over an approximate 12-month period and includes a maximum of 150 workers and 12 vendors per day, with reduced truck hauling demand. A minimal number of heavy trucks (five) is anticipated during this phase. In order to evaluate worst-case traffic conditions, this phase was assumed to occur during the summer months when school is out of session and less vehicles are traveling on local roadways which would otherwise dilute the project impact.

The impact analysis calculates the 24-hour CNEL level at 50 feet from the roadway centerline area for area roadway segments using methodology found in the FHWA Highway Traffic Noise Prediction Model, FHWA-RD-77-108. The analysis used data provided in the Transportation Impact Study for the Project, prepared by Gibson Transportation Consulting, Inc. (2019). While **Table 4** presents

traffic noise data for months when school is in session, **Table 5** shows the same information for summer months.

As traffic volumes are generally already high in the areas urban setting, and because the Project would not result in many trips relative to existing traffic volumes, there is little noise impact from the Project trips along most of the analyzed roadway segments.

However, Record Avenue currently carries very low traffic volumes. During the school year there are approximately 1,370 daily trips and during the summer the number decreases to 1,090 daily trips. Almost all project traffic will utilize Record Avenue to access the site. The addition of 56-111 daily trips to the low traffic volumes creates a traffic noise impact that exceeds the +3 dBA CNEL threshold. For the school year, it is estimated that the project traffic would create a +6.8 dBA CNEL increase and during the summer a +4.8 dBA CNEL increase. This impact would be observed by the residences west of Record Ave that front the roadway.

However, even the "with Project" traffic the noise levels along Record Avenue would be approximately 53 dBA CNEL when school is in session and only 50 dBA CNEL during the summer months. These noise levels are much less than the 65 dBA CNEL recommended compatibility threshold for both schools and residential uses. In addition, measured noise levels in the area were 65 dBA. This is likely because the traffic noise calculations only include vehicles on Record Avenue and do not factor in the residual noise from Cesar Chavez Avenue and extraneous noise sources associated with an urban environment. Therefore, because the "with project" noise levels are less than the recommended noise compatibility threshold and less than the observed noise levels the project roadway impacts are considered to be less than significant.

Traffic Vibration

Delivery truck and haul trucks would travel to and from the Project Site throughout the construction period and may create travel vibration. A typical heavy construction truck may generate vibration of approximately 0.0027 in/sec at a location that is 50 feet from the truck. However, according to the Federal Transit Administration (FTA), typical road traffic-induced vibration levels are unlikely to be perceptible by people, and it is also unusual for vibration, even from sources such as buses and trucks, to be perceptible, even in locations close to major roads[5]. Because this project is located in a busy industrialized urban area, localized traffic will mask any potential project impacts.

Buildings along the construction haul route are typically at least 25 feet from the center of the nearest travel lane, taking into consideration sidewalks, setbacks, and/or on-street parking. These structures and uses may experience groundborne vibration levels of approximately 0.076 in/sec which is below the fragile building damage threshold criterion of 0.2 in/sec for fragile buildings. This level of vibration would also be below the human annoyance threshold of 0.240 in/sec. Therefore, Project construction traffic would negligibly impact vibration levels in the Project vicinity, and vibration impacts due to on-road travel would be below significant for building damage and below significance for human annoyance.

[5] FTA "Transit Noise and Vibration Assessment," page 7-1, May 2006.

Table 4
Near-Term Traffic Noise Impact Analysis
(CNEL in dBA at 50 feet from Centerline)
SCHOOL YEAR

Roadway Segment		**Existing**	**Exist+Proj SR 60**	**Exist+Proj I-710**	**Project Only Impact SR 60**	**Project Only Impact I-710**
Cesar Chavez/	Gage Ave and Record Ave	57.0	57.8	57.3	0.8	0.4
	E of Record Ave	57.0	57.6	58.0	0.6	1.0
	W of Eastern Ave	57.4	57.9	58.3	0.5	0.9
	Eastern Ave-Humphreys Ave	57.6	57.9	58.1	0.2	0.4
	E of Humphreys Ave	58.0	58.2	58.4	0.2	0.4
	W of Ford Blvd	58.0	58.2	58.3	0.1	0.3
Gage Ave/	N of Cesar Chavez Ave	52.9	53.0	53.0	0.1	0.1
	Gage Ave-1st St	51.9	53.9	52.8	2.0	0.9
	1st St-3rd St	52.3	54.3	53.3	2.0	1.0
1St St/	W of Gage Ave	55.7	55.8	55.8	0.1	0.1
	E of Gage Ave	55.9	55.9	55.9	0.0	0.0
3rd St/	W of Gage Ave	55.1	55.3	55.3	0.2	0.2
	Gage Ave – SR 60 WB Ramp	56.0	56.5	56.2	0.4	0.2
Eastern Ave/	N of Cesar Chavez Ave	57.6	57.7	57.9	0.1	0.3
	S of Cesar Chavez Ave	57.1	57.2	57.2	0.2	0.2
Humphreys Ave/	I 710 SB Off Ramp	49.4	49.4	50.5	0.0	1.2
	Floral Dr-Cesar Chavez Ave	48.9	48.9	48.9	0.0	0.0
	S of Cesar Chavez Ave	48.0	48.0	48.0	0.0	0.0
Record Ave/	N of Cesar Chavez Ave	47.2	47.2	47.2	0.0	0.0
	S of Cesar Chavez Ave	46.5	53.3	53.3	**6.8**	**6.8**

Table 5
Project-Related Noise Impact
(CNEL in dBA at 50 feet from Centerline)
SUMMER MONTHS

Roadway Segment		**Existing**	**Exist+Proj SR 60**	**Exist+Proj I-710**	**Project Only Impact SR 60**	**Project Only Impact I-710**
Cesar Chavez/	Gage Ave and Record Ave	56.0	56.3	56.3	0.3	0.3
	E of Record Ave	56.0	56.5	56.5	0.5	0.5
	W of Eastern Ave	56.4	56.8	56.8	0.4	0.4
	Eastern Ave-Humphreys Ave	56.7	56.9	56.9	0.2	0.2
	E of Humphreys Ave	57.0	57.2	57.2	0.2	0.2
	W of Ford Blvd	57.0	57.2	57.2	0.1	0.1
Gage Ave/	N of Cesar Chavez Ave	51.9	52.0	52.0	0.1	0.1
	Gage Ave-1st St	50.9	51.7	51.6	0.8	0.7
	1st St-3rd St	51.4	52.2	52.1	0.8	0.8
1St St/	W of Gage Ave	54.7	54.8	54.8	0.1	0.1
	E of Gage Ave	55.0	55.0	55.0	0.0	0.0
3rd St/	W of Gage Ave	54.2	54.3	54.3	0.1	0.1
	Gage Ave – SR 60 WB Ramp	55.0	55.2	55.2	0.1	0.1
Eastern Ave/	N of Cesar Chavez Ave	56.7	56.7	56.7	0.1	0.1
	S of Cesar Chavez Ave	56.1	56.2	56.2	0.1	0.1
Humphreys Ave/	I 710 SB Off Ramp	48.4	48.4	48.4	0.0	0.0
	Floral Dr-Cesar Chavez Ave	47.9	47.9	47.9	0.0	0.0
	S of Cesar Chavez Ave	47.0	47.0	47.0	0.0	0.0
Record Ave/	N of Cesar Chavez Ave	46.2	46.2	46.2	0.0	0.0
	S of Cesar Chavez Ave	45.5	50.3	50.3	**4.8**	**4.8**

OFF-ROAD CONSTRUCTION NOISE AND VIBRATION

The Belvedere Middle School Modernization Project includes demolition of several buildings and subsequent construction of 23 general and specialty classrooms, instructional support spaces, administration, gymnasium, maintenance and operations, food services, and lunch shelter. Also included is modernizations and upgrades of classroom and library buildings and the auditorium.

Predicted noise levels were identified for the nearest sensitive receptors, as well as for classrooms on campus, based on their respective distances from the construction equipment. To present a conservative impact analysis, the estimated noise levels were calculated for a scenario in which the equipment was assumed to be located at the construction area boundary closest to sensitive receptor. In reality, mobile construction equipment operates throughout a construction area, and the loudest construction equipment would not always be located at the nearest distance to sensitive receptors but would typically be active throughout the site. The construction noise levels were calculated, in terms of hourly Leq for sensitive receptor locations based on the standard point source noise-distance attenuation factor of 6.0 dBA for each doubling of distance. The estimated noise levels at the affected receptors were then compared to the construction noise standards.

A noise impact is considered potentially significant if Project construction activities extended beyond ordinance time limits for construction or if construction-related noise levels exceed the ordinance noise level standards unless technically infeasible to do so. Construction noise levels will vary at any given receptor depending on the construction phase, equipment type, duration of use, distance between the noise source and receptor, and the presence or absence of barriers between the noise source and receptor. In Exterior Noise Standards, Chapter 28.08, Part 4, Specific Noise Restrictions, Section 12.08.440, the County restricts construction activities during the hours of 7:00 p.m. to 7:00 a.m. weekdays and any time on Sundays or holidays when it creates a noise disturbance across a residential or commercial property line.

Mobile Construction Equipment Noise

Construction of the Project is planned to occur from April 2021 and end at the end of September 2022. This analysis uses equipment information provided for the air quality analysis. Construction equipment, such as compactors, bulldozers, excavators, backhoes, loaders, and assorted other hand tools and professional grade equipment will be used. In addition, a crusher is anticipated to be located on site.

In 2006, the Federal Highway Administration (FHWA) published the Roadway Construction Noise Model that includes a national database of construction equipment reference noise emissions levels. In addition, the database provides an acoustical usage factor to estimate the fraction of time each piece of construction equipment is operating at full power during a construction phase. The usage factor is a key input variable that is used to calculate the average Leq noise levels.

Table 6 identifies highest (Lmax) noise levels associated with each type of the probable equipment fleet and the extent of use. Accounting for equipment usage (usage factor) hourly levels are represented as Leq. The table is organized by construction activity and equipment associated with each activity.

Table 6
Mobile Construction Equipment Noise Levels

Phase Name	Equipment	Measured Noise @ 50 feet (dBA)	Cumulative Noise Level @ 50 feet (dBA)[1]
Demolition	Excavators w/breaker	81	77
	Loader	79	75
	Bobcat/Skip Loader	80	76
	Water Truck	80	76
	Jack Hammer	89	82
	Crushing Equipment	89	89
Site Prep	Excavator	81	77
	Compactor	83	76
	Loader	79	75
	Skip Loader	80	76
	Water Truck	80	76
	Vibratory Rollers	80	76
	Trencher / Excavator	80	77
Building Construction	Impact Pile Driver, Sonic Pile Driver, Crane-Mounted Auger Drill, or Crane-Suspended Downhole Vibrator	84	77
	Concrete Pump	80	73
	Crane	81	73
	Fork Lift/Gradall	83	75
	Backhoe	78	74
	Air Compressor	78	74
Paving	Skip Loader	80	76
	Roller	80	73
	Paver	77	74
	Asphalt Trucks	81	74
	Water Truck	80	76

Source: Source: FHWA's Roadway Construction Noise Model, 2006

[1] Estimates the fraction of time each piece of equipment is operating at full power during a construction operation

Since most construction equipment is mobile, the corresponding threshold of significance used in the noise analysis is not to exceed Leq noise level of 75 dBA at a noise-sensitive use. Ambient noise levels in the Project Site vicinity range from 68-74 dBA Leq. **Table 7** shows the distance attenuation and ambient noise level associated with each receptor location.

Table 7
Loudest Construction Noise Equipment at Closest Off-Site Sensitive Uses

Sensitive Receptor	To Closest Campus Structure (feet)	Attenuation due to distance (dBA Leq)	Ambient Noise Level (dBA Leq)
Residents to the east across Record Ave	120	-8	65
Residents to the north across Cesar Chavez	270	-15	65

Residents to the south across Michigan Ave	230	-13	69
Residents to the east across San Carlos St	150	-10	65
On-Site Classrooms	20	+8	65-69

Using the information found in **Table 7**, **Table 8** calculates the noise level at each receptor adjusting for distance attenuation. As shown, construction noise for mobile equipment is not expected to exceed the 75 dBA Los Angeles construction threshold for mobile equipment at the closest off-site homes. However, the school itself will incur noise which could interrupt the educational environment. As shown, in the absence of mitigation, construction noise could be as much as 23 dBA higher than the LAUSD threshold of 67 dBA Leq at on-site classrooms and offices.

Because construction activities would elevate ambient noise levels above the LAUSD exterior noise level (67 dB(A) Leq) mitigation is required. Without mitigation the proposed Project would result in a potentially significant construction noise impact related to on-site construction equipment noise.

The LAUSD includes Standard Conditions to mitigate noise impacts. These Standard Conditions were provided in **Table 3**. Measure **SC-N-9**, which requires site-specific noise control measures to be implemented during construction, was expanded to provide the additional mitigation measures which are required in order to reduce all increases in noise levels at on-site receptors to the maximum feasible degree. These measures include installation of exhaust mufflers, proper maintenance of construction equipment, and the use of noise barriers. Absorptive noise mufflers are commercially available and can feasibly reduce noise emitted by heavy-duty construction equipment. Los Angeles recognizes that the use of mufflers can achieve noise reductions of up to 3 dBA (City of LA, 2006)[6]. In addition, installation of a temporary 15-foot high noise barrier with acoustical blankets with a minimum sound transmission class (STC) of 25 and noise reduction coefficient (NRC) of 0.75 (e.g., 1" plywood with acoustical blankets or aluminum sheets with a thickness of at least 0.125 inches) can reduce noise levels by up to 20 dBA. Therefore, it is estimated that implementation of **MM-NOISE 1** and **MM-NOISE 2** would reduce Project-related construction noise by a total of 23 dBA.

MM-NOISE 1: The Project contractor shall use power construction equipment with state-of-the art noise shielding and muffling devices capable of attenuating sound by 3 dB(A) or more.

MM-NOISE 2: Barriers such as flexible sound control curtains shall be erected between the proposed Project and adjacent sensitive receptors to minimize the amount of noise during construction. These temporary sound barriers shall be 15 feet high with a minimum STC rating of 25 and capable of achieving a sound attenuation of at least 20 dBA.

As shown in **Table 9**, with the implementation of measure **MM-NOISE 1** and **MM-NOISE 2** construction noise levels would be reduced to acceptable levels. Therefore, impacts would be less than significant with respect to temporary increases in ambient noise levels

[6] https://www.unitedmuffler.com/

Table 8
Unmitigated Construction Noise Exceeding Threshold

Phase Name	Equipment	Record Ave Homes (dBA Leq)	Exceeds 75 dBA Leq Threshold ?	Cesar Chavez Homes (dBA Leq)	Exceeds 75 dBA Leq Threshold ?	Michigan Ave Homes (dBA Leq)	Exceeds 75 dBA Leq Threshold ?	San Carlos St Homes (dBA Leq)	Exceeds 75 dBA Leq Threshold ?	On-Site Class-rooms	Exceeds 67 dBA Leq Threshold ?
Demolition	Excavators w/breaker	69	no	62	no	64	no	67	no	85	yes
	Loader	67	no	60	no	62	no	65	no	83	yes
	Bobcat/Skip	68	no	61	no	63	no	66	no	84	yes
	Water Truck	68	no	61	no	63	no	66	no	84	yes
	Jack Hammer	74	no	67	no	69	no	72	no	90	yes
Site Prep	Excavator	69	no	62	no	64	no	67	no	85	yes
	Compactor	68	no	61	no	63	no	66	no	84	yes
	Loader	67	no	60	no	62	no	65	no	83	yes
	Skip Loader	68	no	61	no	63	no	66	no	84	yes
	Water Truck	68	no	61	no	63	no	66	no	84	yes
	Vibratory Rollers	68	no	61	no	63	no	66	no	84	yes
	Trencher / Excavator	69	no	62	no	64	no	67	no	85	yes
Building Construct	Impact Pile Driver, Sonic Pile Driver, Crane-Mounted Auger Drill, or Crane-Suspended Downhole Vibrator	69	no	62	no	64	no	67	no	85	yes
	Concrete Pump	65	no	58	no	60	no	63	no	81	yes
	Crane	65	no	58	no	60	no	63	no	81	yes
	Forklift/Gradal	67	no	60	no	62	no	65	no	83	yes
	Backhoe	66	no	59	no	61	no	64	no	82	yes
	Air Compressor	66	no	59	no	61	no	64	no	82	yes
Paving	Skip Loader	68	no	61	no	63	no	66	no	84	yes
	Roller	65	no	58	no	60	no	63	no	81	yes
	Paver	66	no	59	no	61	no	64	no	82	yes
	Asphalt Truck	66	no	59	no	61	no	64	no	82	yes
	Water Truck	68	no	61	no	63	no	66	no	84	yes

Table 9
Mitigated Construction Noise Exceeding Threshold (MM-NOISE 1 and MM-NOISE 2)

Phase Name	Equipment	Record Ave Homes (dBA Leq)	Exceeds 70 dBA Leq Threshold ?	Cesar Chavez Homes (dBA Leq)	Exceeds 70 dBA Leq Threshold ?	Michigan Ave Homes (dBA Leq)	Exceeds 74 dBA Leq Threshold ?	San Carlos St Homes (dBA Leq)	Exceeds 70 dBA Leq Threshold ?	On-Site Class-rooms	Exceeds 67 dBA Leq Threshold ?
Demolition	Excavators w/breaker	50	no	43	no	45	no	48	no	62	no
	Loader	48	no	41	no	43	no	46	no	60	no
	Bobcat/Skip	49	no	42	no	44	no	47	no	61	no
	Water Truck	49	no	42	no	44	no	47	no	61	no
	Jack Hammer	58	no	51	no	53	no	56	no	67	no
Site Prep	Excavator	50	no	43	no	45	no	48	no	62	no
	Compactor	52	no	45	no	47	no	50	no	61	no
	Loader	48	no	41	no	43	no	46	no	60	no
	Skip Loader	49	no	42	no	44	no	47	no	61	no
	Water Truck	49	no	42	no	44	no	47	no	61	no
	Vibratory Rollers	49	no	42	no	44	no	47	no	61	no
	Trencher / Excavator	49	no	42	no	44	no	47	no	62	no
Building Construct	Impact Pile Driver, Sonic Pile Driver, Crane-Mounted Auger Drill, or Crane-Suspended Downhole Vibrator	53	no	46	no	48	no	51	no	62	no
	Concrete Pump	49	no	42	no	44	no	47	no	58	no
	Crane	50	no	43	no	45	no	48	no	58	no
	Forklift/Gradal	52	no	45	no	47	no	50	no	60	no
	Backhoe	47	no	40	no	42	no	45	no	59	no
	Air Compressor	47	no	40	no	42	no	45	no	59	no
Paving	Skip Loader	49	no	42	no	44	no	47	no	61	no
	Roller	49	no	42	no	44	no	47	no	58	no
	Paver	46	no	39	no	41	no	44	no	59	no
	Asphalt Truck	50	no	43	no	45	no	48	no	59	no
	Water Truck	49	no	42	no	44	no	47	no	61	no

Stationary Source Construction Equipment

Rock crushers are stationary source equipment. Although a rock crusher is anticipated for use on this project, the exact location of the crusher is not yet determined. From the school's perspective, when school is in session, the crusher would best be sited away from the main campus. For the adjacent homes, maximum noise attenuation would be provided if the crusher was sited in the center of the school campus where intervening buildings would assist in noise protection as well as provide the greatest distance separation. It is recommended that if possible, the crusher only be utilized during summer months. Peak noise levels at 50 feet from crusher operations are 85-89 dBA. A noise barrier would need to be erected around the crusher. Barrier effectiveness varies with placement, the most efficient location being immediately adjacent to the source, such that the barrier should be placed as close as possible to the crusher. The location and height of a barrier should be calculated after the exact crusher location is determined. The Los Angeles County Code requires that stationary construction equipment noise be less than 60 dBA Leq.

Construction Activity Vibration

Construction activities associated with the proposed Project would have the potential to impact the existing school buildings and surrounding offsite structures. Although the exact location of equipment is not known, if it were to be very close to existing structures it could result in a significant impact. Although the proposed Project would require compliance with **SC-N-6** and **SC-N-7**, impacts would not be reduced to less than significant, particularly if impact pile driving is necessary. Therefore, impacts would be potentially significant, and mitigation would be required.

A vibration descriptor commonly used to determine structural damage is the peak particle velocity (ppv) which is defined as the maximum instantaneous positive or negative peak of the vibration signal, usually measured in in/sec. The range of such vibration is as follows:

Human Response To Transient Vibration

Average Human Response	ppv (in/sec)
Severe	2.00
Strongly perceptible	0.90
Distinctly perceptible	0.24
Barely perceptible	0.03

Source: Caltrans Transportation and Construction Vibration Guidance Manual, 2013.

Over the years, numerous vibration criteria and standards have been suggested by researchers, organizations, and governmental agencies. There are no Caltrans or Federal Highway Administration standards for vibration.

According to Caltrans, the threshold for structural vibration damage for modern structures is 0.5 in/sec for intermittent sources, which include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment. The American Association of State Highway and Transportation Officials (AASHTO) (1990) identifies maximum vibration levels for preventing damage to structures from intermittent construction or maintenance activities for residential buildings in good repair with gypsum board walls to be 0.4–0.5 in/sec. The

damage threshold criterion of 0.2 in/sec is appropriate for older fragile buildings (typically historic). Below this level there is virtually no risk of building damage. Although the structures adjacent to the proposed project are not considered fragile, to be conservative, the lower damage threshold of 0.2 in/sec was used for this analysis. The predicted vibration levels generated by construction equipment anticipated for use are shown below in **Figure 10.**

Table 10
Estimated Vibration Levels During Project Construction

Equipment	PPV at 10 ft (in/sec)	PPV at 15 ft (in/sec)	PPV at 25 ft (in/sec)	PPV at 50 ft (in/sec)	PPV at 75 ft (in/sec)	PPV at 100 ft (in/sec)	PPV at 200 ft (in/sec)
Large Bulldozer	0.352	0.191	0.089	0.032	0.017	0.011	0.004
Loaded trucks	0.300	0.163	0.076	0.027	0.015	0.010	0.003
Jackhammer	0.138	0.075	0.035	0.012	0.007	0.004	0.002
Small Bulldozer	0.012	0.006	0.003	0.001	0.001	0.000	0.000
Auger/drill rigs	0.352	0.191	0.089	0.032	0.017	0.011	0.004
Pile Drive Impact	2.544	1.385	0.644	0.228	0.124	0.081	0.028
Pile Drive Sonic	0.672	0.366	0.170	0.060	0.033	0.021	0.007
Hoe ram	0.352	0.191	0.089	0.032	0.017	0.011	0.004
Auger/drill rigs	0.352	0.191	0.089	0.032	0.017	0.011	0.004

Source: FHWA Transit Noise and Vibration Impact Assessment

The vibration level of a large bulldozer at 25 feet would be 0.089 in/sec. In order to exceed 0.2 in/sec threshold, a large bulldozer needs to be as close as 15 feet from the offsite structures. The necessary setback distance to avoid structural damage for planned construction equipment is shown in **Table 11**.

Table 11
Minimum Setback Distance for Construction Equipment

Equipment	Minimum Distance to Clear Vibration Damage Threshold (0.2 in/sec PPV)
Large Bulldozer	15
Loaded trucks	15
Jackhammer	10
Small Bulldozer	10
Auger/drill rigs	10
Pile Drive Impact	75
Pile Drive Sonic	25
Hoe ram	15
Auger/drill rigs	15

The nearest off-campus sensitive receptors would be well beyond the damage threshold. Only on-campus structures could be impacted by construction vibration. As shown in **Table 3**, operation of

large heavy construction equipment (pile drivers, large bulldozers or loaded trucks) close to adjacent buildings may exceed the FTA's 0.2 in/sec criteria threshold and may result in vibration-induced damage to the building façade.

In addition to compliance with LAUSD Standard Conditions of Approval **SC-N-7** (damage if pile driving is required) and **SC-N-8** (vibration structural damage), as shown in **Table 3**, the following mitigation is required to ensure there is no structural damage to existing campus structures.

MM-NOISE-3: To avoid structural damage, when the construction equipment is within 15 feet of existing school buildings, large construction equipment (greater than 300 horsepower), such as large bulldozer and loaded trucks, should be replaced with smaller equipment (less than 300 horsepower) when feasible.

MM-NOISE 4: A sonic pile driver shall be used in place of an impact pile driver to reduce noise and vibration during pile drilling/driving activities

OPERATIONAL NOISE ANALYSIS

STATIONARY SOURCE OPERATIONAL NOISE

The school enrollment and use are not expected to change as a result of project implementation. The school buzzers and bells, outdoor activities and student pick-up and drop-off times would remain the same as current conditions. Outdoor recreational activities would also remain the same. No mobile source impact would occur.

Heating, ventilation and air conditioning (HVAC) systems could be different as a result of updated equipment and addition of new structures, but these would be comparable or quieter than other, similar sources at the existing campus and would not result in notable changes on campus. Additionally, HVAC noise would be considerably lower than ambient noise levels, which are dominated by traffic in the Project urban environs. Stationary source noise increases would be less than significant

OPERATIONAL VIBRATION

The proposed Project is a comprehensive modernization of an existing school, and there would be no significant vibration-generating sources during ongoing operations.

APPENDIX H

Site Circulation Report

Site Circulation Report

LAUSD SCHOOL MODERNIZATION PROJECT - BELVEDERE MIDDLE SCHOOL



LIN Consulting, Inc.

Traffic, Civil, and Electrical Consulting Engineers

Prepared by:
LIN Consulting, Inc.

For:
ESA
Los Angeles Unified School District

October 26, 2018

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1.0 INTRODUCTION

The purpose of this report is to document existing traffic and circulation conditions at Belvedere Middle School (Belvedere MS), located at 312 North Record Avenue in the Los Angeles Unified School District's (LAUSD) Local District East in the City of Los Angeles. This report summarizes existing conditions, including observed and anecdotal circulation operations, for use in the facilities planning and design process for the Belvedere MS Comprehensive Modernization Project.

Observations include conditions and operations at adjacent intersections and roadway segments, internal parking lots, and identified or reported issues. Other existing conditions recorded are general vehicular travel (including pick-up/drop-off operations), school bus, parking, pedestrian and bicycle activity. To aid this process, a safety audit (with an emphasis on walking) was performed. The audit encompasses positive and negative site circulation attributes observed during field visits from a professional civil engineering perspective. Walkability, accessibility, visibility, and safety of pedestrians and bicyclists around the perimeter of the school are some of the major site circulation elements that were evaluated in the audit. A follow-up interview regarding access, egress, and circulation at the campus was conducted with Belvedere MS administration, including Principal Joanne Carrillo, on June 7, 2018.

This report concludes with observed deficiencies, major operational and/or circulation issues, and offers potential opportunities for improvements to site access and/or onsite circulation that can be explored further in the facilities planning process for the Belvedere MS Comprehensive Modernization Project, as well as other future projects. ***Appendix A*** includes notes from the field review conducted on May 10, 2018, and ***Appendix B*** includes notes from the walk audits conducted on the same date. Selected photos depicting conditions described in this report are included in ***Appendix C***.

1.1 School and Neighborhood Description

The Belvedere MS campus is located in the unincorporated Los Angeles County community of East Los Angeles. Belvedere MS first opened in 1924.. Per the School Accountability Report Card (SARC) for the 2016-2017 school year, Belvedere MS had an enrollment of 1,075 students. Administration staff indicated that enrollment at Belvedere MS has remained relatively steady in recent years.

Belvedere MS offers gifted and special education programs, along with Music and Media Magnet and Technology Academy programs. Belvedere MS also offers dual enrollment with East Los Angeles College.

Within the campus of Belvedere MS, one other school operates, and another is scheduled to open during the 2018-2019 school year:

COLLEGIATE CHARTER HIGH SCHOOL

Collegiate Charter High School is an independent public charter school that leases property for 9th through 11th grade classrooms within the Belvedere MS campus. The school plans to add 12th grade classes in the 2018-2019 school year. The number of enrolled students for the 2017- to 2018 school year is 141, per the school's website[1]. This school has different morning and afternoon bell periods than Belvedere MS, which do not affect pick-up/drop-off circulation for Belvedere MS.

FUTURE CONTINUING EDUCATION SCHOOL

School administration indicated that a future continuing education school is slated to open on the Belvedere MS campus in the 2018-2019 school year.

2.0 TRANSPORTION NETWORK

2.1 Streets and Intersections

The Belvedere MS main campus is generally bounded by East Cesar E Chavez Avenue to the north, Michigan Avenue to the south, North Record Avenue to the west, and San Carlos Street to the northeast. The east side of the campus is bounded by a single-family residential neighborhood. Roadway characteristics for study area roadways, with street classifications per the County of Los Angeles General Plan, are provided below.

STUDY AREA ROADWAYS

East Cesar E Chavez Avenue is an east-west roadway classified as Secondary Highway with two travel lanes in each direction within the school zone. Curb parking is allowed all day east of North Record Avenue, except on Fridays from 5:00 am to 8:00 am for street sweeping. The posted speed limit is 30 mph, and 25 mph when children are present in accordance with Section 22352 of the California Vehicle Code.

[1] http://www.collegiatecharterhighschooloflosangeles.org/faq-english/

North Record Avenue is a north-south roadway that is unclassified with one travel lane in each direction within the school zone. Curb parking is allowed all day on the west side of North Record Avenue between East Cesar E Chavez Avenue and Michigan Avenue, except Wednesdays from 8:00 am to noon (for street sweeping). Curb parking is allowed all day on the east side of North Record Avenue north of Michigan Avenue, except Thursdays from 5:00 am to 7:00 am for street sweeping. No stopping or parking is permitted on the east side of North Record Avenue in front of the school between 7:00 am and 5:00 pm on school days. There is no posted speed limit on North Record Avenue, but school zone signs are posted in accordance with Section 22352 of the California Vehicle Code.

Michigan Avenue is an east-west roadway that is unclassified with one travel lane in each direction within the school zone. Curb parking is allowed all day on the south side of Michigan Avenue east of North Record Avenue, except Wednesdays from 8:00 am to 12:00 pm for street sweeping. Curb parking is allowed on the north side of Michigan Avenue east of North Record Avenue with a 2-hour limit from 9:00 am to 1:30 pm on school days, except Thursdays from 5:00 am to 7:00 am for street sweeping. On school days from 6:30 am to 9:00 am and 1:30 pm to 4:00 pm, a passenger loading zone is signed in this location. There is no posted speed limit on Michigan Avenue, but school zone signs are posted in accordance with Section 22352 of the California Vehicle Code.

San Carlos Street is a north-south roadway that is unclassified with one travel lane in each direction within the school zone. Curb parking is allowed, except Wednesdays from 8:00 am to 12:00 pm on the north side of San Carlos Street for street sweeping and Thursdays from 8:00 am to 12:00 pm on the south side of San Carlos Street for street sweeping. No stopping or parking is permitted on the south side of San Carlos Street from 7:00 am to 5:00 pm on school days. The posted speed limit is 25 mph and a school zone sign is present in accordance with Section 22352 of the California Vehicle Code for school zones.

STUDY AREA INTERSECTIONS

North Record Avenue & East Cesar E Chavez Avenue is a signalized intersection with permissive left turn signal phasing on all movements. Pedestrian phase recall occurs along North Record Avenue. The intersection operates under semi-actuated signal timings, with East Cesar E Chavez Avenue as the coordinated street.

North Record Avenue & Michigan Avenue is an unsignalized intersection with stop control on all movements.

Nevada Avenue & Michigan Avenue is an unsignalized T-intersection with stop control on Nevada Avenue.

North Bonnie Beach Place & Michigan Avenue is an unsignalized T-intersection with stop control on North Bonnie Beach Place.

San Carlos Street & East Cesar E Chavez Avenue is an unsignalized T-intersection with stop control on San Carlos Street.

Specific characteristics of each intersection, including lane configurations, can be found in ***Appendix A***.

2.2 Transit

Bus transit stops and services (operators and routes) provided adjacent to Belvedere MS are as follows:

- East Cesar E Chavez Avenue
  - Northeast corner of North Record Avenue
    - Metro 68 (westbound)
  - Southeast corner of North Record Avenue
    - Metro 68 (eastbound)

The Metro Gold Line Indiana Station is located approximately 1 mile southwest of Belvedere MS. Per the County's *General Plan* (adopted in 2015), the school zone is located within the 3rd Street Transit Oriented District.

According to Belvedere MS administration, only about 10% of students use Metro buses along East Cesar E Chavez Avenue, and neither students nor faculty/staff use the Gold Line.

2.3 Bicycle and Pedestrian Facilities

There are no bicycle facilities located within the school zone. The County of Los Angeles *Bicycle Master Plan* (adopted in 2012) includes East Cesar E Chavez Avenue as a future Class III Bicycle Route within the school zone.

Sidewalks exist on both sides of East Cesar E Chavez Avenue, North Record Avenue, and Michigan Avenue within the school zone. There is no sidewalk for approximately 250 feet on the northeast side of San Carlos Street from the intersection of East Cesar E Chavez Avenue and San Carlos Street. Pedestrian-only access to the school is available along San Carlos Street.

According to Belvedere MS administration, about 75% of the student body walk to and from campus. Approximately 10 to 15 students and faculty bike to Belvedere MS regularly. Bicycle racks and skateboard racks are provided inside campus.

2.4 Parks and Other Recreational Facilities

Eugene A. Obregon Park is located approximately one-half mile southeast of Belvedere MS.

2.5 Congestion Locations

During the morning drop off period, maximum vehicle queues of approximately 100 feet were observed for each of the southbound and westbound movements at the intersection of North Record Avenue and Michigan Avenue. Vehicles who drop off students along North Record Avenue and Michigan Avenue were observed to frequently block through vehicles.

During the afternoon pick up period, maximum vehicle queues of approximately 500 feet were observed for the westbound movement on Michigan Avenue between North Record Avenue and North Bonnie Beach Place, approximately 200 feet for the eastbound through movement for the intersection of North Bonnie Beach Place and Michigan Avenue, and approximately 100 feet for the northbound movement in front of the school on North Record Avenue. Vehicles who double park on North Record Avenue and Michigan Avenue were observed to frequently block through vehicles. Additionally, school bus drivers were observed to have difficulty parking at the designated bus loading area, due to vehicles parking to drop off or pick up students at the same location. This caused school buses to block through traffic while waiting for vehicles to clear from the area. General congestion occurs due to the number of vehicles that are double parking and navigating in and out of curb parking. ***Appendix D*** contains traffic counts that were obtained from the City of Los Angeles Department of Transportation (LADOT) *NavigateLA* database.

3.0 SCHOOL OPERATIONS

3.1 Parking

At the Belvedere MS main campus, there are three faculty/staff parking lot facilities. The main parking lot is located underground beneath the building at the northwest corner of the Belvedere MS campus, and contains 39 marked spaces with no accessible parking spaces. This parking lot was observed to be approximately 95% utilized during school hours. The second parking lot is a surface lot located at the northeast side of the Belvedere MS campus, which contains 52

marked spaces, including 3 van-accessible spaces. There is an unmarked area in this parking lot that can accommodate 5 additional vehicles. This parking lot was observed to be utilized at less than 50% during school hours. The third parking area is accessed from a gate located on East Cesar E Chavez Avenue, and is located between the main school buildings and the gymnasium. This parking area contains 35 marked spaces, including 3 van-accessible spaces. This parking area was observed to be approximately 50% utilized.

Since Belvedere MS is a closed campus with restricted access to parking lots during school hours, faculty and visitors both utilize available curb parking, mainly along North Record Avenue.

Belvedere MS administration mentioned that the underground parking structure gate is subject to tampering or blockage due to students congregating near the gate, which is an ongoing operational issue, and that parking availability is adequate at the school.

3.2 Circulation

Most vehicular traffic to and from the school was observed to travel from East Cesar E Chavez east and from Michigan Avenue east or west. There is a designated or signed passenger loading/unloading area north of Michigan Avenue between North Record Avenue and North Bonnie Beach Place, which is approximately 500 feet in length. Although there is a designated passenger loading/unloading area, it was observed to not be of sufficient length to accommodate the demand. Therefore, some vehicles picking up or dropping off students seek out available curb parking on Michigan Avenue, Nevada Avenue, and North Record Avenue. Some vehicles were also observed to stop in the middle of the roadway and double park, which blocks through vehicles.

Additionally, there is a designated loading/unloading area east of North Record Avenue which is approximately 200 feet in length. Although this area is not signed for school bus use, school buses use this area to drop off or pick up students. Occasionally, parents park at this area to drop off or pick up students, which was observed to interfere with school bus operations.

Since Belvedere MS is a closed campus, several gates restrict access and are opened only for morning and afternoon bell periods, with the main school entrance on North Record Avenue being the only way to enter or exit the site during other school hours. Most students were observed entering the main campus through a gated entrance on North Record Avenue near the southeast corner of the intersection of East Cesar E Chavez Avenue and North Record Avenue and through a gated entrance on Michigan Avenue between Nevada Avenue and North

Bonnie Beach Place. There is also a gated entrance on the north side of campus along East Cesar E Chavez Avenue near San Carlos Street. This gated entrance is not typically used by students and is typically used by faculty and staff parking in the northeast parking lot.

During the afternoon bell period, a high volume of students cross the intersection of North Record Avenue and East Cesar E Chavez Avenue and North Record Avenue and Michigan Avenue. Crossing assistants, who are school employees, are deployed at these two intersections. They do not cross the intersection with the students to warn vehicles of students crossing but instead stop students from crossing the intersection when the traffic signals are red.

Belvedere MS administration indicated that most vehicular traffic to or from the school results from staff and faculty, who predominantly travel from the San Gabriel Valley area. Traffic to and from the school primarily use East Cesar E Chavez Avenue to access either the SR-60 Freeway or the I-710 Freeway, with some traffic using Soto Street to access the I-10 Freeway.

Belvedere MS uses school buses for special education and the magnet schools. Per Belvedere MS administration, 1 bus is used for magnet schools and 6 buses are used for special education. All school buses use the east side of North Record Avenue for loading and unloading.

Belvedere MS administration has received several complaints from local residents, especially on North Record Avenue, regarding vehicle blockages.

3.3 Crash History

Between 2013 and 2016, a total of 24 collisions occurred within the Belvedere MS school zone, which is defined as “a designated roadway segment approaching, adjacent to, and beyond school buildings or grounds, or along which school related activities occur” in the California Manual on Uniform Traffic Control Devices (CA MUTCD) 2014 Edition. Sixteen collisions occurred near the intersection of North Record Avenue and East Cesar E Chavez Avenue. Two collisions occurred on North Record Avenue 300 feet north of Michigan Avenue. Two collisions occurred near the intersection of North Record Avenue and Michigan Avenue. One collision occurred on San Carlos Street, 500 feet south of East Cesar E Chavez Avenue. Three collisions occurred near the intersection of San Carlos Street and East Cesar E Chavez Avenue. Within the school zone, 1 bicycle collision was recorded on Michigan Avenue near the intersection of North Record Avenue and Michigan Avenue which resulted in non-severe injuries. No fatalities or severe injuries were recorded. Most collisions were rear end, broadside, or sideswipes.

Based on the available data, no discernible collision patterns were noted. However, the number of total crashes within a 3-year period at the intersection of North Record Avenue and East Cesar E Chavez Avenue may indicate physical conditions that are not readily apparent to the driver.

According to Belvedere MS administration, another pedestrian crash occurred that was not shown in the crash data, near Nevada Avenue and Michigan Avenue. The severity of that crash, as described, could be classified as a visible injury but less than a severe injury.

4.0 DEFICIENCIES AND OPPORTUNITIES

4.1 Walk Audit Observations

The walk audit within the school perimeter revealed the following off-site deficiencies:

- North Record Avenue and East Cesar E Chavez Avenue
    - Numerous vehicles encroach into the crosswalk due to insufficient distance between stop line and crosswalk, per Section 3B.16 of the California Manual of Traffic Control Devices (MUTCD), which conflicts with pedestrians crossing
    - The marked crosswalks for the east and west legs of the intersection are not wide enough to accommodate the number of pedestrians crossing during morning and afternoon peak periods
    - The permissive left turn phasing for the westbound movement from East Cesar E Chavez Avenue results in vehicle conflicts with pedestrians crossing on the south leg of the intersection
    - Intersection is not staffed with an official crossing guard, and as school staff volunteers, they do not have the authority to stop vehicles while students cross
- San Carlos Street and East Cesar E Chavez Avenue
    - Numerous vehicles turning right onto northbound San Carlos Street do not stop at stop line, which interferes with pedestrians crossing from the southeast corner of the intersection
    - Numerous vehicles encroach into the crosswalk due to insufficient distance between stop line and crosswalk, per Section 3B.16 of the California MUTCD, which conflicts with pedestrians crossing
- North Record Avenue and Michigan Avenue

    - Numerous vehicles encroach into the crosswalk due to insufficient distance between stop line and crosswalk, per Section 3B.16 of the CA MUTCD, which conflicts with pedestrians crossing
- North Record Avenue
    - Street lighting is only provided on the west side, causing sidewalks on the east side to be in shadow during early morning or late evenings.
    - Parked/stopped vehicles observed blocking curb ramps and crosswalks
- Michigan Avenue
    - Parked/stopped vehicles observed blocking curb ramps and crosswalks
    - Some street signs have been defaced and are covered in graffiti, making it difficult to discern parking restrictions or other relevant circulation information
- San Carlos Street
    - Street lighting is only provided on the northeast side, causing sidewalks to be in shadow
    - Sidewalk is not continuous on the east side of San Carlos Street

Additional detail from the walk audit is provided in ***Appendix B***. Selected photos for major deficiencies prompted by the walk audit are provided in ***Appendix C***.

4.2 Observed Circulation Deficiencies

- Pick-up/Drop-offs
    - Numerous parents double park and make U-turns on North Record Avenue and Michigan Avenue, which blocks through traffic
    - Parents dropping off or picking up students conflict with school bus loading and unloading
- Circulation
    - Traffic signal on East Cesar E Chavez Avenue and North Record Avenue does not provide enough capacity to allow for pedestrian demand at crosswalks during morning arrival and afternoon dismissal periods
    - Pedestrians cross mid-block on North Record Avenue between East Cesar E Chavez Avenue and Michigan Avenue outside of designated crosswalks

4.3 Positive Attributes

- Campus layout and vertical grade can provide students and faculty with light exercise between classes
- Parking availability appears to be adequate

4.4 Opportunities

The following opportunities are not required improvements and are not required to limit or mitigate potential impacts. This list is provided solely as observations to LAUSD of the existing conditions that were observed during a site visit for planning purposes. The feasibility or practicality of these opportunities have not been evaluated and LAUSD does not have jurisdiction over any off-site improvements.

- Wayfinding signage for vehicular traffic may help organize operations.
- Increased use and training of crossing guards at intersections with high levels of pedestrian activity such as North Record Avenue and East Cesar E Chavez Avenue
- Additional street lighting may help increase visibility of students during early morning, especially during winter months
- Relocation of stop bars near crosswalks may help prevent vehicles encroaching into the crosswalks and reduce need for cars to move forward in order to see oncoming traffic

APPENDIX A

Field Review Sheets

Michigan Ave & Nevada Ave

Passenger loading zone 6:30 - 9am
1:30 - 4pm

2 hour parking 9am - 1:30pm

No parking 5-7am

SCHOOL

XING

STOP

No Parking
Street cleaning
8:00am - 10:00am
1st Tuesday

St cleaning
8-12
wed only

St Louis

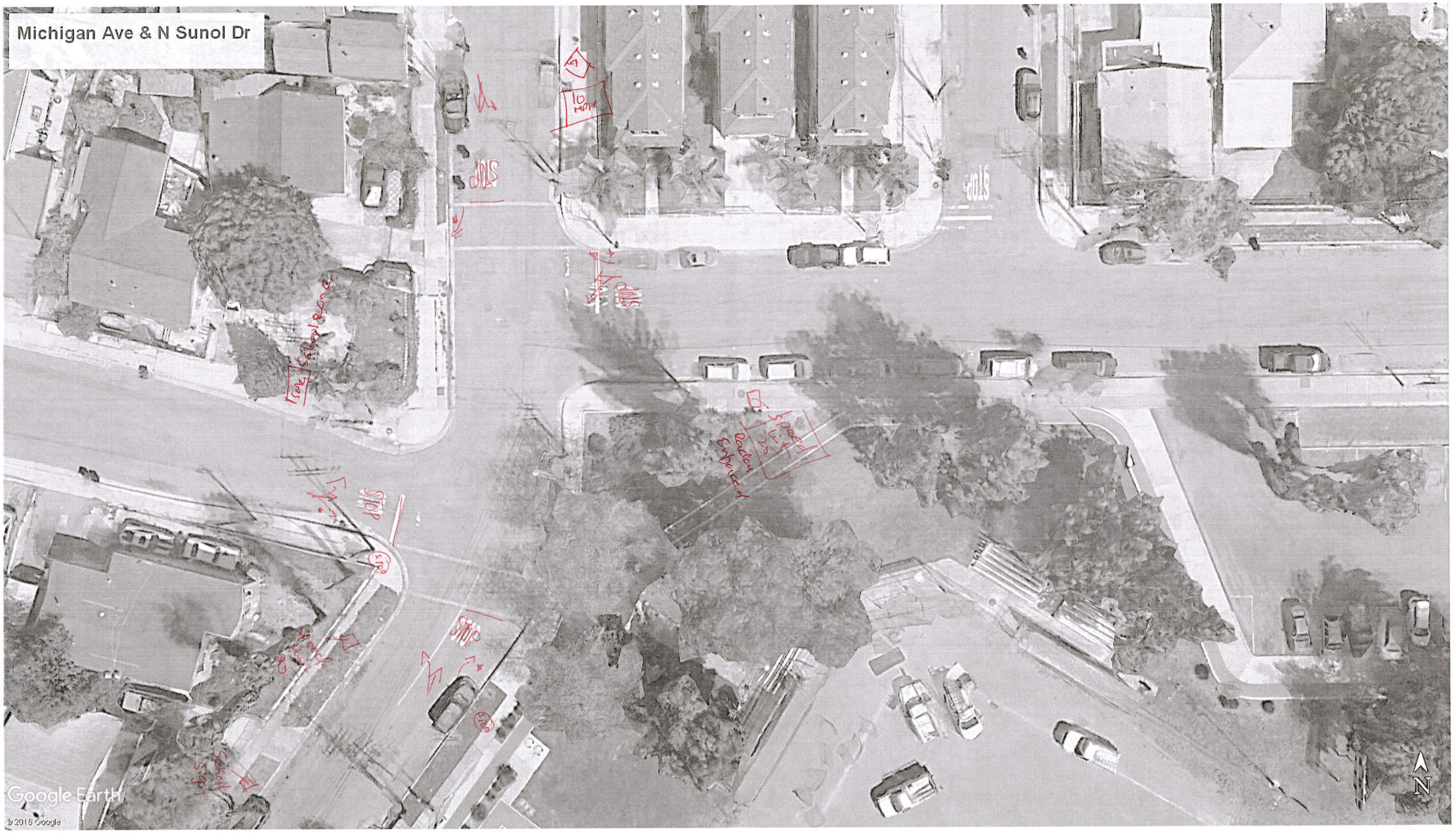
Google Earth
© 2018 Google

N

Michigan Ave & Bonnie Beach PL



Michigan Ave & N Sunol Dr



Google Earth
© 2018 Google


N Record Ave & Michigan Ave
Michigan Ave
Street cleaning 8-12
School Sign
Street cleaning 5-7am Thursday
Sign
Sign
Sign

E Cesar E Chavez Ave & N Record Ave

East Cesar E Chavez Avenue

PERMISSIVE LT

PERMISSIVE LT

XING GUARD

XING GUARD

XWALK LIGHT ALWAY ON

PERMISSIVE LT

PERMISSIVE LT

BUS STOP. METRO BUS 68

CONTROLLER.

* De-facto right turn.

NOTES:
- XING GUARD DO NOT GO TO CROSSWALK.
- THEY ONLY WAIT AT RAMP AND TELL STUDENTS TO HURRY UP.
- CONSTRUCTION ON CESAR E CHAVEZ AFFECTS DELAY.
- INTERSECTION IS SEMI ACTUATED.

N

© 2016 Google

E Cesar E Chavez Ave & San Carlos St

N Hazard Ave

San Carlos St

PEDS WAITING OR XING ~~SB~~ HARD TO SEE FOR VEH COMING NB.

STOP

STOP

STOP

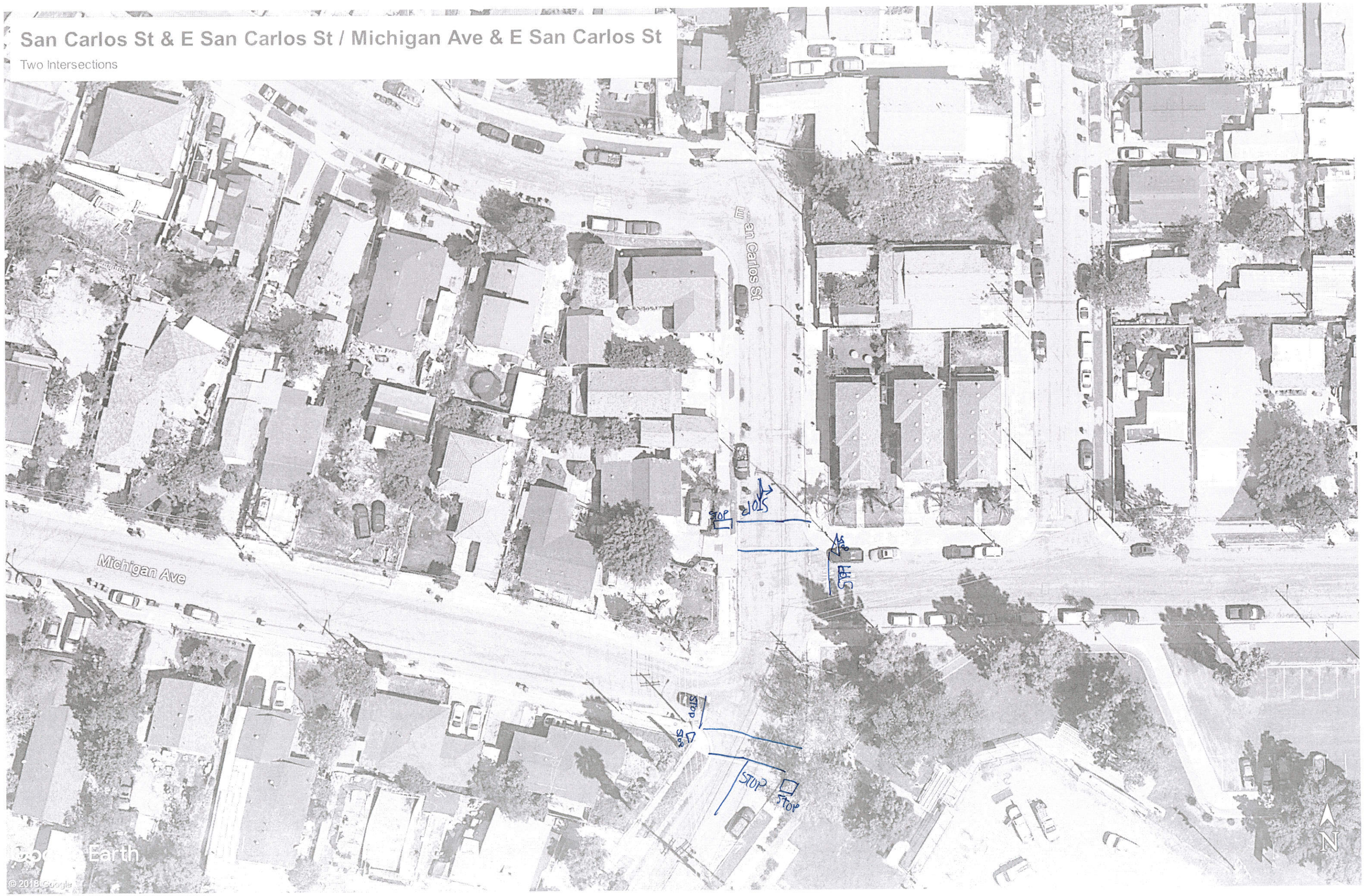
N

Google Earth

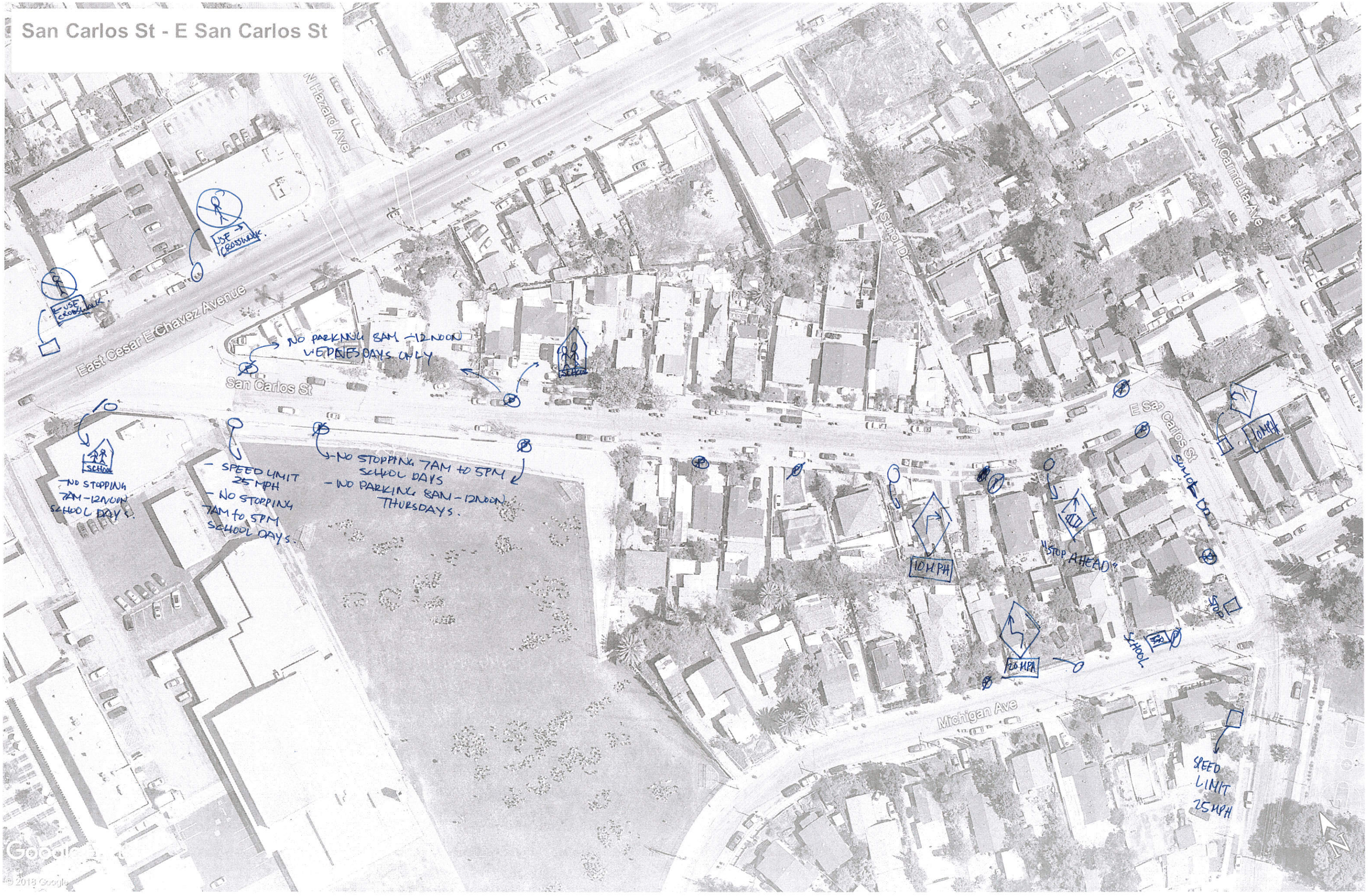
© 2018 Google

San Carlos St & E San Carlos St / Michigan Ave & E San Carlos St

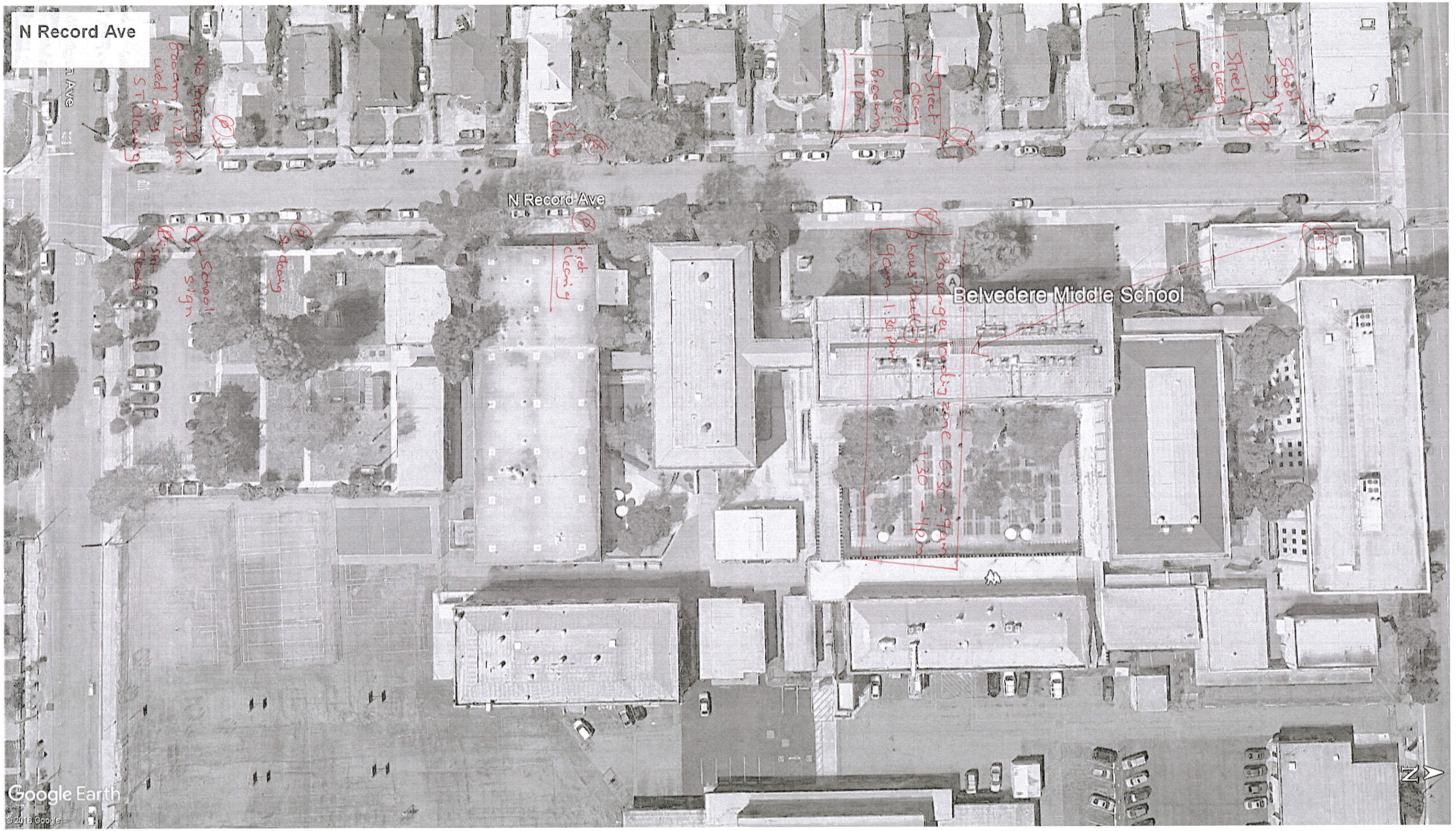
Two Intersections



San Carlos St - E San Carlos St




Michigan Ave
N Rectoro Ave
E Sgt Carlos St
Michigan Ave
Nevada Ave
N Bonnie Beach Pl
N Suno Dr
Google Earth
© 2018 Google
N
Passenger loading zone 6:30 - 9am
11:30 - 4pm
Trucks Parking 9 - 1:30pm
Parking
Trucks
Loading zone


N Record Ave
N Record Ave
Belvedere Middle School
Google Earth
© 2018 Google

E Cesar E Chavez Avenue

→ LANE CLOSED DUE TO CONSTRUCTION.
→ CLOSED DURING AM PEAK HOUR.

N Hazard Ave

East Cesar E Chavez Avenue

N Record Ave

METRO BUS STOP

- GARAGE GATE ENTRANCE
- CLOSE DURING SCHOOL HOURS.

- NO PARKING 5-8AM (FRIDAYS)
- NO PARKING OF VEH. FOR SALE ENTIRE BLOCK

→ ENTRANCE GATE
- CLOSE DURING SCHOOL HOURS.

San Carlos St

N

Belevedere Middle School

East Cesar E Chavez Avenue

San Carlos St

N Stuart Dr

E San Carlos St

N Record Ave

Michigan Ave

39 Underground Parking NO ADA

55P + 2 ADA

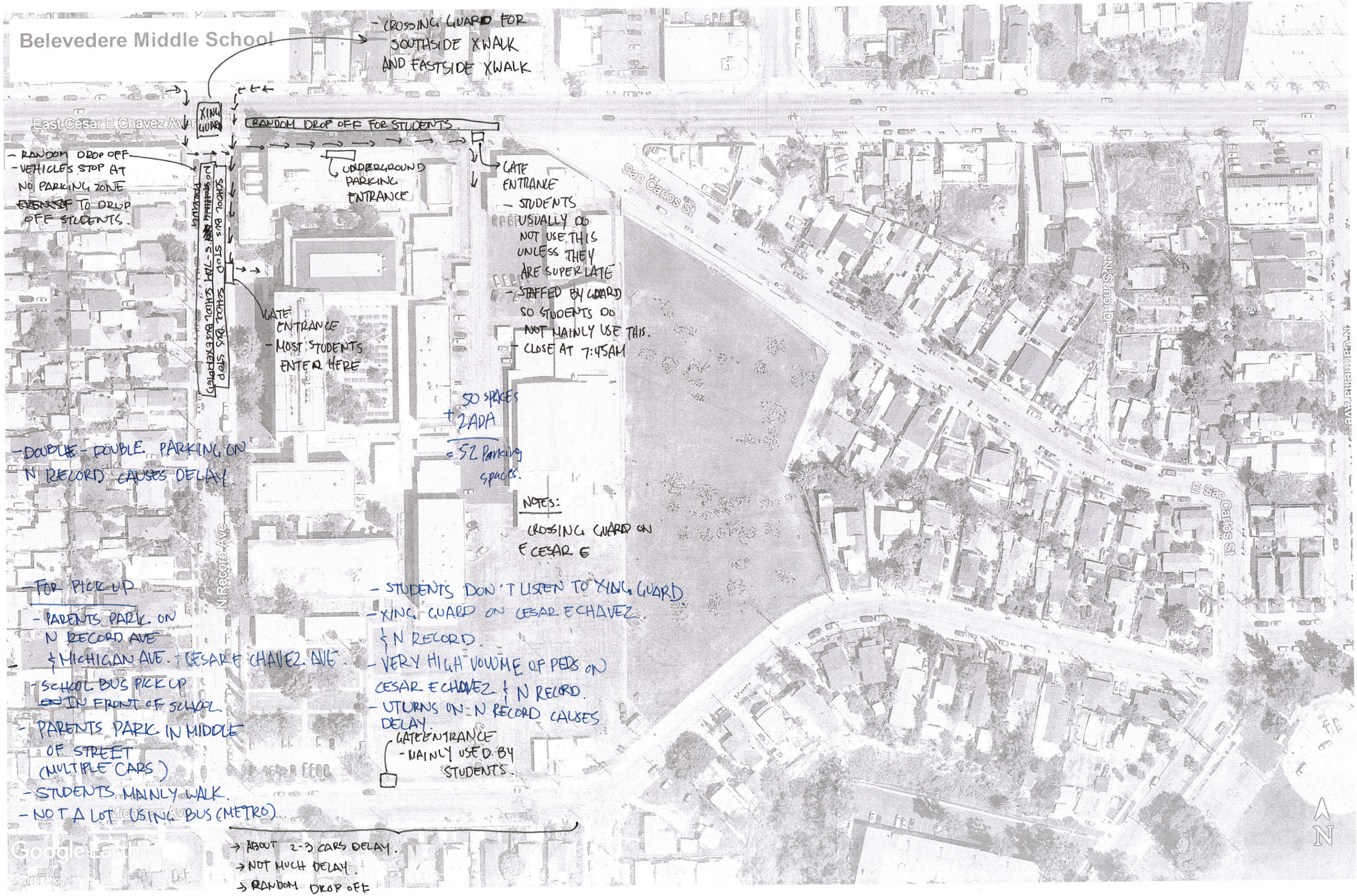
Then go inside

Stay here before bell ring

Google Earth

© 2018 Google

N


Belevedere Middle School
- CROSSING GUARD FOR SOUTHSIDE XWALK AND EASTSIDE XWALK
East Cesar E Chavez Av
XING GUARD
RANDOM DROP OFF FOR STUDENTS.
- RANDOM DROP OFF
- VEHICLES STOP AT NO PARKING ZONE ~~EVENTS~~ TO DROP OFF STUDENTS.
UNDERGROUND PARKING ENTRANCE
GATE ENTRANCE
- STUDENTS USUALLY DO NOT USE THIS UNLESS THEY ARE SUPER LATE
- STAFFED BY GUARD SO STUDENTS DO NOT MAINLY USE THIS.
- CLOSE AT 7:45AM
San Carlos St
N Record Ave
GATE ENTRANCE
- MOST STUDENTS ENTER HERE
50 SPACES + 2 ADA = 52 Parking spaces.
NOTES:
CROSSING GUARD ON E CESAR E
-DOUBLE - DOUBLE PARKING ON N RECORD CAUSES DELAY.
- FOR PICK UP
- PARENTS PARK ON N RECORD AVE & MICHIGAN AVE. + CESAR E CHAVEZ AVE.
- SCHOOL BUS PICK UP ~~ON~~ IN FRONT OF SCHOOL
- PARENTS PARK IN MIDDLE OF STREET (MULTIPLE CARS)
- STUDENTS MAINLY WALK.
- NOT A LOT USING BUS (METRO)
- STUDENTS DON'T LISTEN TO XING. GUARD
- XING. GUARD ON CESAR E CHAVEZ & N RECORD.
- VERY HIGH VOLUME OF PEDS ON CESAR E CHAVEZ & N RECORD.
- UTURNS ON N RECORD CAUSES DELAY
GATE ENTRANCE
- MAINLY USED BY STUDENTS.
→ ABOUT 2-3 CARS DELAY.
→ NOT MUCH DELAY.
→ RANDOM DROP OFF
E San Carlos St
N
Google Earth
© 2018 Google

Belvedere Middle School

East Cesar E Chavez Avenue

San Carlos St

N Smith Dr

E San Carlos St

Belvedere Middle School

Crossing guard (Schedule may change)

(not helping too much)

mostly going this way

26P + 1ADA

long Que

Que (Que on this side because people pulling cars)

Michigan Ave

Google Earth

© 2018 Google

N

APPENDIX B

Walk Audit Sheets

LIN Consulting, Inc.
Traffic, Civil, Electrical Consulting Engineers

1432 Edinger Ave, Suite 230
Tustin, CA 92780-6293
Tel:(714) 258-8411 Fax:(714) 258-8511
E-mail: inbox@LinConsulting.com

EXISTING CONDITIONS FIELD ASSESSMENT

PROCEDURE: BELVEDERE MIDDLE SCHOOL

Each school location will include a project limit of all streets, intersections and midblock crossings that immediately surround the school grounds. Streets and intersections will be identified prior to the site visit.

OBSERVER: VIVIANNE TABUENA

DATE: 7:00AM - 3:00PM

LOCATION / WEATHER: OVERCAST (MORNING)

TIME: 5/10/2018

STREETS:

E CESAR CHAVEZ AVE, between N RECORD AVE & SAN CARLOS ST

N RECORD AVE, between E CESAR CHAVEZ AVE & MICHIGAN AVE

MICHIGAN AVE, between N RECORD AVE & E SAN CARLOS ST

SAN CARLOS ST, between E CESAR CHAVEZ AVE & MICHIGAN AVE

INTERSECTIONS:

MICHIGAN AVE & N RECORD AVE

E CESAR CHAVEZ AVE & N RECORD AVE

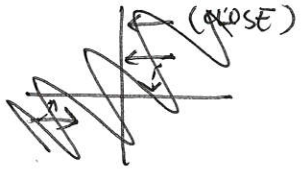
MICHIGAN AVE & E SAN CARLOS ST

E CESAR CHAVEZ AVE & SAN CARLOS ST

After the project limit has been determined and aerial has been printed, the following list of items will be recorded or identified as missing:

1. Existing Lane Configurations
   a. Intersections – within reasonable vicinity of school
   b. Street Segments – within reasonable vicinity of school
2. Existing Traffic Signs
3. Locations of Existing Traffic Signals and Street Lighting
4. Locations of Existing Transit Areas
5. Existing Pedestrian and Bicycle Facilities
   a. Bike Lanes
   b. Sidewalks
   c. Crosswalks
   d. Pedestrian Ramps
6. Parking configurations as shown on aerials for:
   a. Administration
   b. Teachers
   c. Students
   d. Visitors
   e. Deliveries
   f. Buses
   g. On-street
7. Pick-up and Drop-off Operation Issues During Peak Periods
8. General Internal and External Circulation Issues

- CONSTRUCTION ON E CESAR CHAVEZ AVE
- ONE WB LANE CLOSE



SCHOOL BUS NOTES:

- SEVEN BUSES
- 5 SB → 5 SHORT
- 2 MARKET → LONG.

BRIAN - (323) 804-3587

A Road Safety Audit (see attached template) will be conducted as part of each location's assessment.

NEEDS:

- Safety Vest
- Clipboard, pad and pen/pencil
- Geo-referenced digital camera
- Measuring wheel
- Shoes with ankle protection

SAN CARLOS ST / E SAN CARLOS ST

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	
	7.	Are marked crosswalks wide enough?	
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	
	9.	Are crosswalks sited along pedestrian desire lines?	
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	
	2.	Is the crossing pavement flush with the roadway surface?	
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	
Lighting	1.	Is the pedestrian crossing adequately lit?	
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	
Access Management	1.	Are driveways placed close to crossings?	
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	
	2.	Are crossing points for pedestrians properly signed and/or marked?	
Signals	1.	Are pedestrian signal heads provided and adequate?	
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	
	5.	Are ADA accessible push buttons provided and properly located?	

***For any Result with "N" or "Other", please add notes below:**

E CESAR E CHAVEZ AVE / N RECORD AVE

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N/A
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards? NOTE 1	Y - BUT XING GUARD NOT TRAINED.
	7.	Are marked crosswalks wide enough?	N - NOTE 2.
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	Y
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	N - STOP BAR/LINE NOT OFFSET.
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N Permissive
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	Y - ~~Protective~~ LT.
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	Y - Permissive LTs
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N
	2.	Are crossing points for pedestrians properly signed and/or marked?	N - NOT MARKED FOR SCHOOL XING
Signals	1.	Are pedestrian signal heads provided and adequate?	Y
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	Y
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	Y
	5.	Are ADA accessible push buttons provided and properly located?	Y

***For any Result with "N" or "Other", please add notes below:**

(1) XING GUARD ONLY WAIT AT CURB RAMPS AND TELL STUDENTS TO HURRY UP AND TO STAY INSIDE THE X WALK.

(2) EAST AND WEST SIDE XWALKS ARE NOT WIDE ENOUGH.

E SAN CARLOS ST / MICHIGAN AVE

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	Y
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N
	7.	Are marked crosswalks wide enough?	Y
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	Y
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	~~Y~~N
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N
	2.	Are crossing points for pedestrians properly signed and/or marked?	Y
Signals	1.	Are pedestrian signal heads provided and adequate?	N/A
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	N/A
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N/A
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	N/A
	5.	Are ADA accessible push buttons provided and properly located?	N/A

***For any Result with "N" or "Other", please add notes below:**

E CESAR E CHAVEZ AVE / SAN CARLOS ST

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	Y
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	Y - NOTE 1.
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N
	7.	Are marked crosswalks wide enough?	Y
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y
Quality, Conditions, and Obstructions		*Use questions for Streets for potential issues on obstructions*	
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	Y
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	N - NOTE 1
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	N - NOT OFFSET
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N
	2.	Are crossing points for pedestrians properly signed and/or marked?	N - NOT FOR SCHOOL XING.
Signals	1.	Are pedestrian signal heads provided and adequate?	N/A
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	N/A
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N/A
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	N/A
	5.	Are ADA accessible push buttons provided and properly located?	N/A

***For any Result with "N" or "Other", please add notes below:**

- SE SIDE CAN BE HARD TO SEE FOR VEHICLES COMING NB.
- STOP CONTROLLED.

Michigan Ave & N Recod Ave

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	NA
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	NA
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N
	7.	Are marked crosswalks wide enough?	Y
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	Y
	9.	Are crosswalks sited along pedestrian desire lines?	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	Y
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	Y
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	Y
	2.	Are crossing points for pedestrians properly signed and/or marked?	NA
Signals	1.	Are pedestrian signal heads provided and adequate?	NA
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	NA
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	NA
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	NA
	5.	Are ADA accessible push buttons provided and properly located?	NA

***For any Result with "N" or "Other", please add notes below:**

Michigan Ave & Nevada Ave

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	NE
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	NA
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N
	7.	Are marked crosswalks wide enough?	Y
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	Y
	9.	Are crosswalks sited along pedestrian desire lines?	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	Y
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	Y
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N
	2.	Are crossing points for pedestrians properly signed and/or marked?	Y
Signals	1.	Are pedestrian signal heads provided and adequate?	NA
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	NA
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	NA
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	NA
	5.	Are ADA accessible push buttons provided and properly located?	NA

***For any Result with "N" or "Other", please add notes below:**

Michigan Ave & Bonnie Beach PL

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N A
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N
	7.	Are marked crosswalks wide enough?	Y
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	Y
	9.	Are crosswalks sited along pedestrian desire lines?	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	Y
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	Y
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N
	2.	Are crossing points for pedestrians properly signed and/or marked?	Y
Signals	1.	Are pedestrian signal heads provided and adequate?	N A
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	N A
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N A
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	N A
	5.	Are ADA accessible push buttons provided and properly located?	N A

***For any Result with "N" or "Other", please add notes below:**

E San Carlos & Michigan Ave

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N
	7.	Are marked crosswalks wide enough?	Y
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	Y
	9.	Are crosswalks sited along pedestrian desire lines?	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	Y
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	Y
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N
	2.	Are crossing points for pedestrians properly signed and/or marked?	Y
Signals	1.	Are pedestrian signal heads provided and adequate?	N A
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	N A
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N A
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	N A
	5.	Are ADA accessible push buttons provided and properly located?	N/A

***For any Result with "N" or "Other", please add notes below:**

East Cesar Chavez Ave

STREETS

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Y
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	N/A
	3.	Are shoulders/sidewalks provided on both sides?	Y*
	4.	Is the sidewalk width adequate for pedestrian volumes?	Y
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	Y
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	Y
	7.	Are ramps provided as an alternative to stairs?	Y
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	N/A
	2.	Is the path clear from both temporary and permanent obstructions?	Y
	3.	Is the walking surface too steep?	N
	4.	Is the walking surface adequate and well-maintained?	Y
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	Y
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	Y
Lighting	1.	Is the sidewalk adequately lit?	Y
	2.	Does the street lighting improve pedestrian visibility at night?	Y
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Y
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	N
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	N
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	N
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	Y

***For any Result with "N" or "Other", please add notes below:**

- NO BIKE LANE
- CONSTRUCTION DURING FIELD WORK.

San Carlos St

STREETS

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Y
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	N/A
	3.	Are shoulders/sidewalks provided on both sides?	Y
	4.	Is the sidewalk width adequate for pedestrian volumes?	Y
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	Y
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	Y
	7.	Are ramps provided as an alternative to stairs?	Y
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	N/A
	2.	Is the path clear from both temporary and permanent obstructions?	Y
	3.	Is the walking surface too steep?	N
	4.	Is the walking surface adequate and well-maintained?	Y
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	Y
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	Y
Lighting	1.	Is the sidewalk adequately lit?	Y
	2.	Does the street lighting improve pedestrian visibility at night?	Y
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Y
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	N
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	N
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	N
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	Y

***For any Result with "N" or "Other", please add notes below:**

N Record ST

STREETS

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Y
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	Y
	3.	Are shoulders/sidewalks provided on both sides?	Y
	4.	Is the sidewalk width adequate for pedestrian volumes?	Y
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	Y
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	Y
	7.	Are ramps provided as an alternative to stairs?	NA
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	NA
	2.	Is the path clear from both temporary and permanent obstructions?	Y
	3.	Is the walking surface too steep?	N
	4.	Is the walking surface adequate and well-maintained?	Y
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	Y
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	N
Lighting	1.	Is the sidewalk adequately lit?	Y
	2.	Does the street lighting improve pedestrian visibility at night?	NA
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Y
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	N
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	N
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	N
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	Y

***For any Result with "N" or "Other", please add notes below:**

Michigan Ave

STREETS

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Y
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	Y
	3.	Are shoulders/sidewalks provided on both sides?	Y
	4.	Is the sidewalk width adequate for pedestrian volumes?	Y
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	Y
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	Y
	7.	Are ramps provided as an alternative to stairs?	NA
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	NA
	2.	Is the path clear from both temporary and permanent obstructions?	Y
	3.	Is the walking surface too steep?	N/Y (small area, less than 1/8 mile)
	4.	Is the walking surface adequate and well-maintained?	Y
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	Y
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	N
Lighting	1.	Is the sidewalk adequately lit?	Y
	2.	Does the street lighting improve pedestrian visibility at night?	NA
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Y
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	N
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	N
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	N
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	Y

***For any Result with "N" or "Other", please add notes below:**

STREETS

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	
	3.	Are shoulders/sidewalks provided on both sides?	
	4.	Is the sidewalk width adequate for pedestrian volumes?	
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	
	7.	Are ramps provided as an alternative to stairs?	
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	
	2.	Is the path clear from both temporary and permanent obstructions?	
	3.	Is the walking surface too steep?	
	4.	Is the walking surface adequate and well-maintained?	
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	
Lighting	1.	Is the sidewalk adequately lit?	
	2.	Does the street lighting improve pedestrian visibility at night?	
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	

***For any Result with "N" or "Other", please add notes below:**

BUS STOP ON E CESAR E CHAVEZ AVE

TRANSIT AREAS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Are bus stops sited properly?	Y
	2.	Are safe pedestrian crossings convenient for transit and school bus users?	Y
	3.	Is sight distance to bus stops adequate?	* Y
	4.	Are shelters appropriately designed and placed for pedestrian safety and convenience?	Y
Quality, Conditions, and Obstructions	1.	Is the seating area at a safe and comfortable distance from vehicle and bicycle lanes?	Y
	2.	Do seats (or persons sitting on them) obstruct the sidewalk or reduce its usable width?	N
	3.	Is a sufficient landing area provided to accommodate waiting passengers, boarding/alighting passengers, and through/bypassing pedestrian traffic at peak times?	Y
	4.	Is the landing area paved and free of problems such as uneven surfaces, standing water, or steep slopes?	Y
	5.	Is the sidewalk free of temporary/permanent obstructions that constrict its width or block access to the bus stop?	Y
Continuity and Connectivity	1.	Is the nearest crossing opportunity free of potential hazards for pedestrians?	Y
	2.	Are transit stops part of a continuous network of pedestrian facilities?	Y
	3.	Are transit stops maintained during periods of inclement weather?	Y
Lighting	1.	Are access ways to transit facilities well-lit to accommodate early-morning, late-afternoon, and evening pedestrian traffic?	Y
Visibility	1.	Are open sight lines maintained between approaching buses and passenger waiting and loading areas?	Y
Traffic Characteristics	1.	Do pedestrians entering and leaving buses conflict with cars, bicycles, or other pedestrians?	N
Signs and Pavement Markings	1.	Are appropriate signs and pavement markings provided for school bus and transit stops?	Y

***For any Result with "N" or "Other", please add notes below:**

SCHOOL BUS STOP IN FRONT OF SCHOOL

TRANSIT AREAS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Are bus stops sited properly?	Y
	2.	Are safe pedestrian crossings convenient for transit and school bus users?	Y
	3.	Is sight distance to bus stops adequate?	Y
	4.	Are shelters appropriately designed and placed for pedestrian safety and convenience?	N/A - NO SHELTERS.
Quality, Conditions, and Obstructions	1.	Is the seating area at a safe and comfortable distance from vehicle and bicycle lanes?	N/A → NO SHELTERS
	2.	Do seats (or persons sitting on them) obstruct the sidewalk or reduce its usable width?	N/A
	3.	Is a sufficient landing area provided to accommodate waiting passengers, boarding/alighting passengers, and through/bypassing pedestrian traffic at peak times?	Y
	4.	Is the landing area paved and free of problems such as uneven surfaces, standing water, or steep slopes?	Y
	5.	Is the sidewalk free of temporary/permanent obstructions that constrict its width or block access to the bus stop?	Y
Continuity and Connectivity	1.	Is the nearest crossing opportunity free of potential hazards for pedestrians?	Y
	2.	Are transit stops part of a continuous network of pedestrian facilities?	Y
	3.	Are transit stops maintained during periods of inclement weather?	Y
Lighting	1.	Are access ways to transit facilities well-lit to accommodate early-morning, late-afternoon, and evening pedestrian traffic?	Y
Visibility	1.	Are open sight lines maintained between approaching buses and passenger waiting and loading areas?	Y
Traffic Characteristics	1.	Do pedestrians entering and leaving buses conflict with cars, bicycles, or other pedestrians?	N
Signs and Pavement Markings	1.	Are appropriate signs and pavement markings provided for school bus and transit stops?	Y

***For any Result with "N" or "Other", please add notes below:**

PARKING ON NE SIDE.

PARKING AREAS/ADJACENT DEVELOPMENTS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	Y
	2.	Are the sidewalks/paths designed appropriately?	Y
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*		
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments		
	1.	Do parked vehicles obstruct pedestrian paths?	N
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	Y
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	Y
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*		
Visibility	1.	Are visibility and sight distance adequate?	Y
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	Y
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	Y
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	N
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	N
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	Y

***For any Result with "N" or "Other", please add notes below:**

Michigan Ave | underground

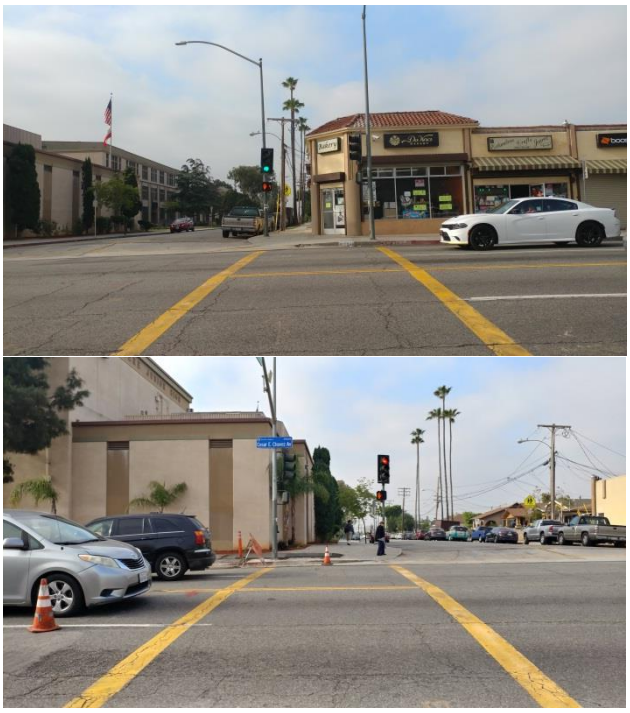
PARKING AREAS/ADJACENT DEVELOPMENTS

Topic		Question	Result (Y, N, Other or N/A)*	
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	Y	Y
	2.	Are the sidewalks/paths designed appropriately?	Y	Y
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	Y	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*			
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments			
	1.	Do parked vehicles obstruct pedestrian paths?	N	N
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	Y	Y
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	Y	Y
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*			
Visibility	1.	Are visibility and sight distance adequate?	Y	Y
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	Y	Y
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	Y	Y
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	N	N
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	Y	Y
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	Y	Y

***For any Result with "N" or "Other", please add notes below:**

APPENDIX C

Selected Photos



North Record Avenue and East Cesar E Chavez Avenue looking south east (left) and west (right) of intersection; east and west leg crosswalks cannot accommodate high pedestrian volume during morning and afternoon bell periods.



Michigan Avenue looking west; parking sign is difficult to read due to graffiti and stickers, and crosswalk sight line obscured by electrical pole



San Carlos Street looking south; sidewalk on the east of San Carlos Street is not continuous and is uneven, may be difficult to traverse in wheelchair



North Record Avenue looking south; vehicles double park on North Record Avenue blocking through traffic



Michigan Avenue looking west; queue due to pedestrian crossing on North Record Avenue and Michigan Avenue

APPENDIX I

Construction Traffic Analysis

Gibson transportation consulting, inc.

MEMORANDUM

TO: Carl Lindner, Envicom Corporation

FROM: Brian Hartshorn and Casey Le, P.E.

DATE: June 3, 2019

RE: Construction Traffic Analysis for the
Belvedere Middle School Comprehensive Modernization Project
Los Angeles, California **Ref:** J1656a

Gibson Transportation Consulting, Inc. (GTC) analyzed the construction period traffic for the proposed Belvedere Middle School Comprehensive Modernization Project (Project). This memorandum summarizes our analysis of the temporary safety, operational, or capacity impacts that may result from construction-related activities of the Project.

PROJECT BACKGROUND

As detailed in *Program of Facilities Requirements: Belvedere Middle School Comprehensive Modernization Project* (Los Angeles Unified School District, October 8, 2018) and Figure 1, the Project proposes the construction of new general and specialty classrooms as well as supporting facilities. In addition, the Project proposes facility upgrades including the seismic retrofit and modernization of various buildings on site.

The Project is located within the jurisdiction of the County of Los Angeles (County). As shown in Figure 2, the Project site is bordered by Cesar E. Chavez Avenue to the north, a publicly accessible field to the east, Michigan Avenue to the south, and Record Avenue to the west. General vehicular access to the site is provided via one driveway along Cesar E. Chavez Avenue (to the maintenance and operations parking lot) and one driveway along Michigan Avenue (to the staff and faculty parking lot).

TYPES OF CONSTRUCTION IMPACTS

There are generally four types of on-street construction impacts. Each of the four types of impacts refers to a particular population that could be inconvenienced by construction activities. The four types of impacts and related populations are:

1. Temporary traffic impacts: potential impacts on vehicular travelers on roadways
2. Temporary loss of access: potential impacts on visitors entering and leaving sites

3. Temporary loss of bus stops or rerouting of bus lines: potential impacts on bus travelers
4. Temporary loss of on-street parking: potential impacts on parkers

The factors used to determine the significance of a project's impacts involve the likelihood and extent to which an impact might occur, the potential inconvenience caused to a population, and consideration for public safety. Traffic impacts from construction activities would be expected to occur as a result of the following types of activities:

- Increases in truck traffic associated with export of fill materials and delivery of construction materials

- Increases in automobile traffic associated with construction workers traveling to and from the site

- Reductions in existing street capacity or on-street parking from temporary lane closures necessary for the construction of roadway improvements, utility relocation, and drainage facilities

- Blocking existing vehicle or pedestrian access to other parcels fronting street

Construction traffic would decrease the capacity of access streets and haul routes due to slower movements and the larger turning radii of trucks.

CONSTRUCTION ASSUMPTIONS

GTC reviewed the detailed construction information provided by the Project team in order to develop analysis assumptions related to the construction schedule and haul routes.

Construction Schedule

Based on Los Angeles County Code, construction-related activities are generally limited to weekdays and Saturdays between 6:30 AM and 8:00 PM with no construction activity on Sundays. Some activities may require after-hours construction and the appropriate approvals/ permits would be secured.

Due to school operations, construction traffic was divided into two construction scenarios: a modified construction schedule when school is in session and a more intense construction operation during the summer when school is out.

While schools are in session, it is assumed that less than 50% of the site would be disturbed at any one time and an average of 50 construction workers would be allowed on site when students are present. During summer months, construction activities would increase to a maximum of 150 construction workers on site during the day.

The maximum construction trip activity, representing worst-case traffic conditions, would occur during two separate construction phases. The site prep/grading and excavation phase includes

heavy vehicles that are predominately oriented toward freeway routes, while the building construction phase is comprised of more worker trips in passenger vehicles that have diverse destinations.

Based on data provided regarding the volume of materials to be imported/exported, worker requirements, and delivery needs, it was determined that the worst-case truck demand will occur during the site prep/grading and excavation phase and generate 35 trucks per day (each with a capacity of 14 cubic yards).

Additionally, the site prep/grading and excavation phase anticipates 50 construction workers and up to eight vendor vehicles per day and is estimated to require approximately three months for completion. In order to evaluate worst-case traffic conditions, this phase was assumed to occur while schools are in session.

The building construction phase is planned over a 12-month period and include a maximum of 150 workers and 12 vendors per day, with reduced truck hauling demand. A minimal number of heavy trucks (five) is included for this phase. In order to evaluate worst-case traffic conditions, this phase was assumed to occur during the summer months when school is out of session.

Construction Truck Haul Routes

Construction truck haul routes typically utilize the most convenient paths of travel (e.g., freeways) to nearby landfill facilities and comply with the approved truck routes designated within the County and/or adjacent jurisdictions, including avoidance of restricted roadway or freeway segments. Construction trucks traveling to and from the Project site must travel along the designated truck route.

Although construction truck haul routes for the Project have not been finalized, the construction traffic analysis identified potential haul routes based on the location of landfill facilities within the vicinity of the Project. The two most viable landfill facilities are Scholl Canyon to the north and Puente Hills to the east.

As shown in Figure 3A, haul trucks destined to the Puente Hills landfill would most likely travel along Cesar E. Chavez Avenue and use Gage Avenue to access the SR 60 eastbound on-ramp. Haul trucks en route to Scholl Canyon landfill would most likely travel along Cesar E. Chavez Avenue and use Ford Boulevard to access the I-710 northbound on-ramp, as shown in Figure 3B.

Based on the anticipated haul routes, a total of nine signalized intersections were selected for detailed analysis. The nine signalized intersections are listed in Table 1 and shown in Figure 2. Consistent with *Draft Traffic Impact Analysis Report Guidelines* (County Department of Public Works, December 2013) (County TIA Guidelines), traffic counts were conducted at the nine locations during typical commuter peak hours, 7:00 to 9:00 AM and 4:00 to 6:00 PM.

CONSTRUCTION TRIP GENERATION

Construction (School in Session) - Site Prep/Grading and Excavation Phase

For the purposes of analyzing the potential impacts of large trucks, heavy vehicles were converted into passenger car equivalencies (PCEs). *Transportation Research Circular No. 212, Interim Materials on Highway Capacity* (Transportation Research Board, 1980) *(Circular No. 212)* defines PCE for a heavy vehicle as the number of through moving passenger cars to which it is equivalent based on the vehicle's headway and delay-creating potential.

Table 8 of *Circular No. 212* and Exhibit 22.11 of *Highway Capacity Manual, 6th Edition, A Guide for Multimodal Mobility Analysis* (Transportation Research Board, 2016) suggest a PCE of 2.0 for trucks using the local terrain. Based on a PCE factor of 2.0, the 35 trucks arriving to/departing from the Project site during this period will generate 140 daily PCE trips (70 PCE trips inbound, 70 PCE trips outbound), with approximately 18 trips (nine PCE trips inbound, nine PCE trips outbound) occurring each hour uniformly over a typical eight-hour workday.

In addition, a maximum of 50 construction workers would be on-site at one time during this period. Assuming minimal carpooling amongst those workers, an average vehicle occupancy (AVO) of 1.135 persons per vehicle was applied, as provided in *CEQA Air Quality Handbook* (South Coast Air Quality Management District, 1993). Therefore, 50 construction workers would result in a total of 88 vehicle trips to and from the Project site on a daily basis. With a conservative assumption of 100% of all worker vehicles entering the site during the commuter morning peak hour and 100% exiting during the commuter afternoon peak hour, this adds another 44 trips to the morning and commuter afternoon peak hours. The eight vendor vehicles would also add 16 daily trips, or approximately two trips (one inbound, one outbound) per hour uniformly over a typical eight-hour workday.

As shown in Table 2, the trip generation of the site prep/grading and excavation phase when school is in session is 64 morning peak hour and 64 afternoon peak hour trips.

Worker trips and construction truck trips were distributed independently and assigned to the study intersections. Figure 4 details the intersection-level trip distribution pattern for the worker trips. Figures 5A and 5B detail the intersection-level trip distribution pattern for the construction truck trips with a haul route along SR 60 or I-710, respectively. The trip generation of the site prep/grading and excavation phase summarized in Table 2 and the trip distribution pattern in Figures 4, 5A, and 5B were used to assign the construction-generated traffic through the study intersections. Figures 6A and 6B illustrate the combined construction-only peak hour traffic volumes at the study intersections when school is in session with a haul route along SR 60 or I-710, respectively.

Construction (During Summer Months) - Building Construction Phase

The trip generation for the construction activity during the summer months includes the building construction phase and is also shown in Table 2.

Based on a PCE factor of 2.0, the five trucks arriving to/departing from the Project site during this period will generate 20 daily PCE trips (10 PCE trips inbound, 10 PCE trips outbound), with

approximately two trips (one PCE trip inbound, one PCE trip outbound) per hour uniformly over a typical eight-hour workday.

Assuming an AVO factor of 1.135 persons per vehicle, the maximum 150 construction workers would result in a total of 264 vehicle trips to and from the Project site on a daily basis. With a conservative assumption of 100% of all worker vehicles entering the site during the commuter morning peak hour and 100% exiting during the commuter afternoon peak hour, this adds 132 trips to the morning and afternoon peak hours.

The 12 vendor vehicles would also add 24 daily trips, or approximately four trips per hour (two inbound, two outbound) uniformly over a typical eight-hour workday. Table 2 summarizes the trip generation for the construction activity during summer months with the building construction phase and estimates 138 morning peak hour and 138 afternoon peak hour trips.

The trip generation of the building construction phase summarized in Table 2 and the trip distribution pattern in Figures 4, 5A, and 5B were used to assign the construction-generated traffic through the study intersections. Figures 7A and 7B illustrate the combined construction-only peak hour traffic volumes at the study intersections during summer months with a haul route along SR 60 and I-710, respectively.

PEAK HOUR TRAFFIC VOLUMES

Morning and afternoon peak hour turning movement counts, as shown in Figure 8, were collected at the study intersections in April 2019 while schools were in session. The traffic count worksheets are provided in Attachment A.

In order to reflect the lower traffic volumes typically observed during the summer months, when local schools are not in session, the peak hour traffic volumes shown in Figure 8 were reduced by 20% and are illustrated in Figure 9.

The construction-only peak hour traffic volumes detailed in Figures 6A and 6B were added to the peak hour traffic volumes shown in Figure 8. Figures 10A and 10B show the existing with construction conditions peak hour traffic volumes when schools are in session with a haul route along SR 60 or I-710, respectively.

The construction-only peak hour traffic volumes detailed in Figures 7A and 7B were added to the peak hour traffic volumes shown in Figure 9. Figures 11A and 11B show the existing with construction conditions peak hour traffic volumes during summer months with a haul route along SR 60 or I-710, respectively.

CONSTRUCTION TRAFFIC IMPACTS

Intersection Analysis Methodology

A detailed intersection capacity analysis was conducted for the weekday morning and afternoon peak hours during both construction scenarios (during school and during summer).

Level of service (LOS) is a qualitative measure used to describe the condition of traffic flow on the street system, ranging from free-flowing conditions at LOS A to overloaded or congested conditions at LOS F. LOS D is typically recognized as the minimum acceptable LOS in urban areas.

In accordance with County guidelines, the LOS analyses for signalized intersections were conducted using the Intersection Capacity Utilization (ICU) methodology from *Highway Capacity Manual, Special Report 209* (Transportation Research Board, 2000) to obtain the volume to capacity (V/C) ratio for signalized intersections. The V/C ratio was then used to determine the LOS value as defined by the County's matrix shown on Table 3. Assumptions for the ICU methodology included 1,600 vehicles per hour per lane and an added yellow clearance interval factor of 0.10.

Impact Criteria and Significance Thresholds

The significance of the potential construction traffic impacts at the signalized study intersections was determined using criteria identified in the County TIA Guidelines, which state that a project is considered to have a significant traffic impact on a signalized intersection if the increase in the V/C ratio attributable to the project exceeds a specific threshold depending on the pre-project intersection LOS. The County has developed a sliding scale methodology in which the minimum allowable increase in the V/C ratio attributable to a project decreases as the V/C ratio of the intersection increases:

Intersection Conditions without Project Traffic		Project-related Increase in V/C Ratio
LOS	V/C	
A, B	0.00 – 0.70	Causing V/C to 0.75 or worse
C	0.71 - 0.80	Equal to or greater than 0.04
D	0.81 - 0.90	Equal to or greater than 0.02
E	0.91 – 1.00	Equal to or greater than 0.01
F	> 1.00	Equal to or greater than 0.01

Source: County of Los Angeles.

The relative impact of the added traffic volumes to be generated by the Project construction-related traffic was evaluated based on analysis of existing operating conditions at the study intersections, with and without the Project construction-related traffic.

Construction Traffic Impact Analysis

Tables 4A and 4B summarize the results of the analysis of construction traffic when school is in session with haul routes along SR 60 or I-710, respectively. Tables 5A and 5B summarize the results of the analysis of construction traffic during the summer months with haul routes along SR 60 or I-710, respectively.

Based on the significant thresholds outlined in the County TIA Guidelines, the Project construction-related traffic would not result in a temporary construction impact at any of the

study intersections during either construction scenario or using either of the previously identified haul routes.

Intersection level of service worksheets are provided in Attachment B.

POTENTIAL IMPACTS ON ACCESS, TRANSIT, AND PARKING

Construction activities are expected to be primarily contained within the Project site boundaries and would generally not affect the adjacent street access, transit or parking in the area. Project construction is not expected to create hazards for roadway travelers, bus riders, or parkers, as long as commonly practiced safety procedures for construction are followed. The Construction Management Plan will include measures to ensure pedestrian safety along any affected sidewalks and temporary walkways (e.g., use of directional signage, maintaining continuous and unobstructed pedestrian paths, and/or providing overhead covering).

Any temporary loss of bus stops or on-street parking, as well as rerouting of any bus lines, would be typically considered short-term adverse impacts to transit riders and parkers that would be mitigated through implementation of a Construction Management Plan. There are existing bus stops located along Cesar E. Chavez Avenue, adjacent to the northern boundary of the Project site; however, temporary relocations of the bus stops are not anticipated. On-street parking is allowed adjacent to the Project site along Cesar E. Chavez Avenue and Record Avenue and construction activities are not anticipated to encroach onto the public right of way or result in any temporary loss of on-street parking.

CONSTRUCTION SAFETY DURING SCHOOL OPERATIONS

Some construction activities are anticipated to occur while school is in session. To ensure safety of students, staff, pedestrians, and bicyclists, the construction management team must follow professional best-practice safety procedures to minimize conflicts between construction vehicles/activities and pedestrian movement. These procedures include, but are not limited to, isolated work areas with appropriate physical barriers, protected walkways, secured equipment, appropriate signage, thorough dust containment procedures, separate paths of egress, notification systems, and guidelines for minimizing airborne contaminants. The Construction Management Plan will include a detailed safety plan that encompasses the school's needs and can be reviewed regularly for adjustments to better protect the school, students, and staff during simultaneous construction activities.

CONSTRUCTION MANAGEMENT PLAN

A detailed Construction Management Plan, including any street closure information, detour plans, haul routes, and staging plans will be prepared and submitted to the County for review and approval. The Construction Management Plan will formalize how construction will be carried out and identify specific actions required to temporary reduce effects on the surrounding community. The Construction Management Plan will be based on the nature and timing of the specific construction activities and other projects in the vicinity of the Project site and may include the following elements as appropriate:

- Limitations on construction-related activity while school children are present and during active school operations
- Prohibition of construction worker parking on adjacent residential streets
- Encouragement of worker carpool/vanpool
- Prohibitions on construction equipment or material deliveries within the public right-of-way
- Provisions for temporary traffic control during all construction activities adjacent to public right-of-way to improve traffic flow on public roadways (e.g., flag men)
- Scheduling of construction activities to reduce the effect on peak hour traffic flow on surrounding arterial streets
- Rerouting of construction trucks to reduce travel on congested streets where feasible
- Prohibitions on construction-related vehicles parking on surrounding public streets
- Provisions of safety precautions for pedestrians and bicyclists through such measures as alternate routing and protection barriers
- Provisions to accommodate construction equipment
- Scheduling of construction-related deliveries to reduce travel during the morning and afternoon peak hours
- Obtaining the required permits for truck haul routes prior to issuance of any permit for the Project

SUMMARY & CONCLUSION

GTC analyzed the temporary safety, operational, or capacity impacts that may result from construction-related activities of the Project.

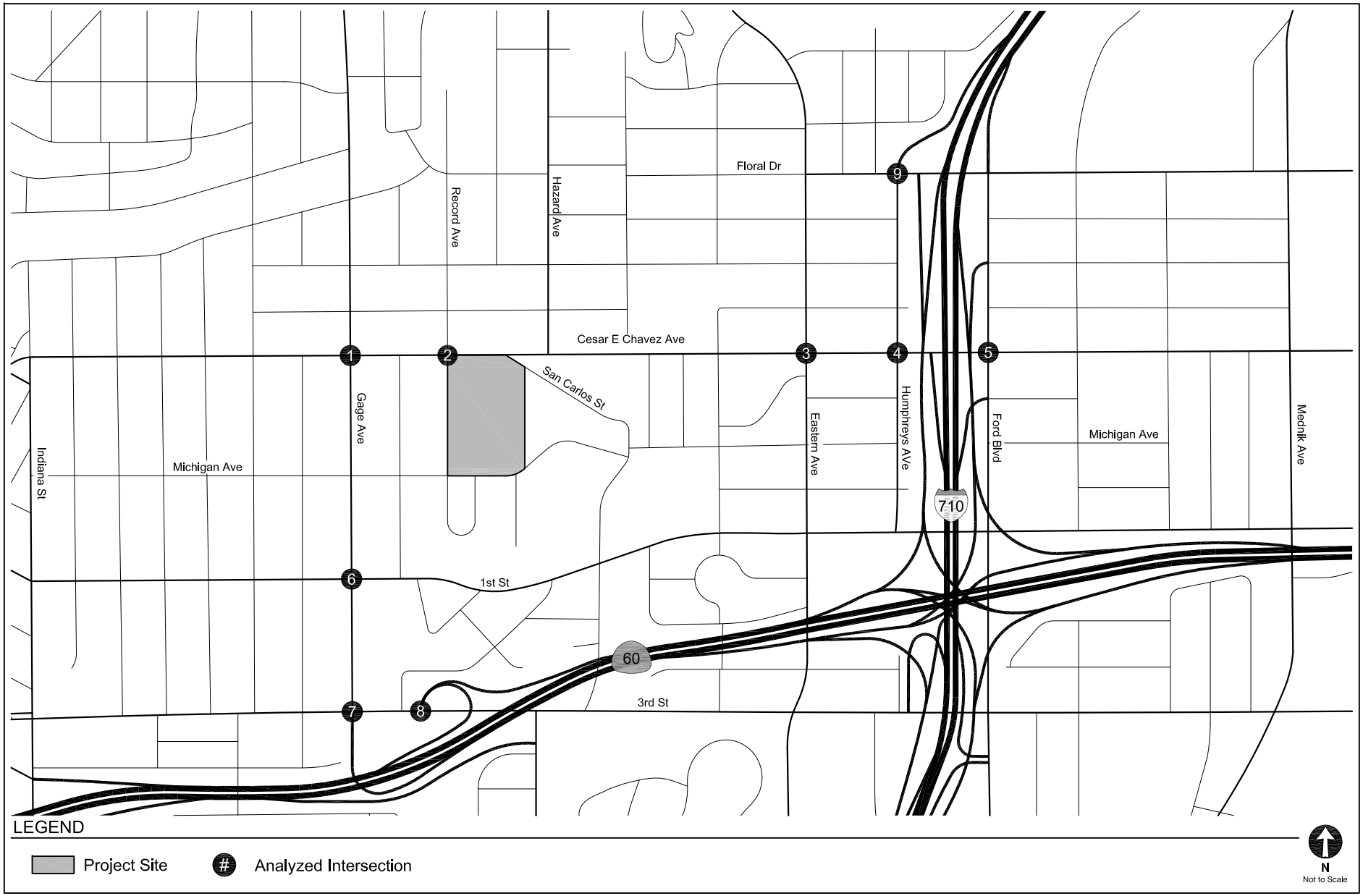
Based on the results of the analysis detailed above, the Project would not result in any temporary construction-related impacts at off-site intersections with use of either of the analyzed haul routes.

Construction activities during school sessions must implement best-practices for safety of all pedestrians.



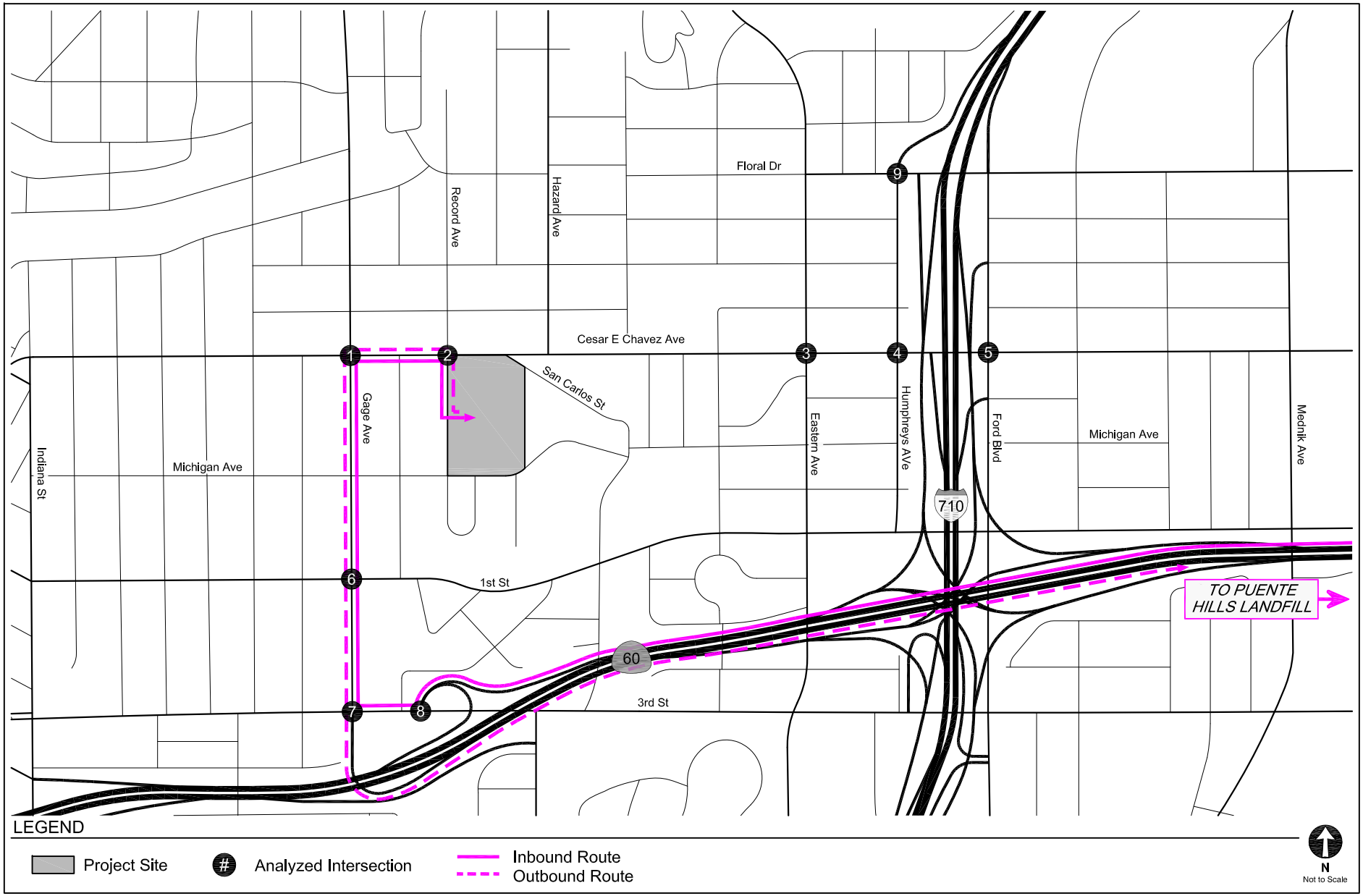
PROJECT SITE PLAN

FIGURE
1



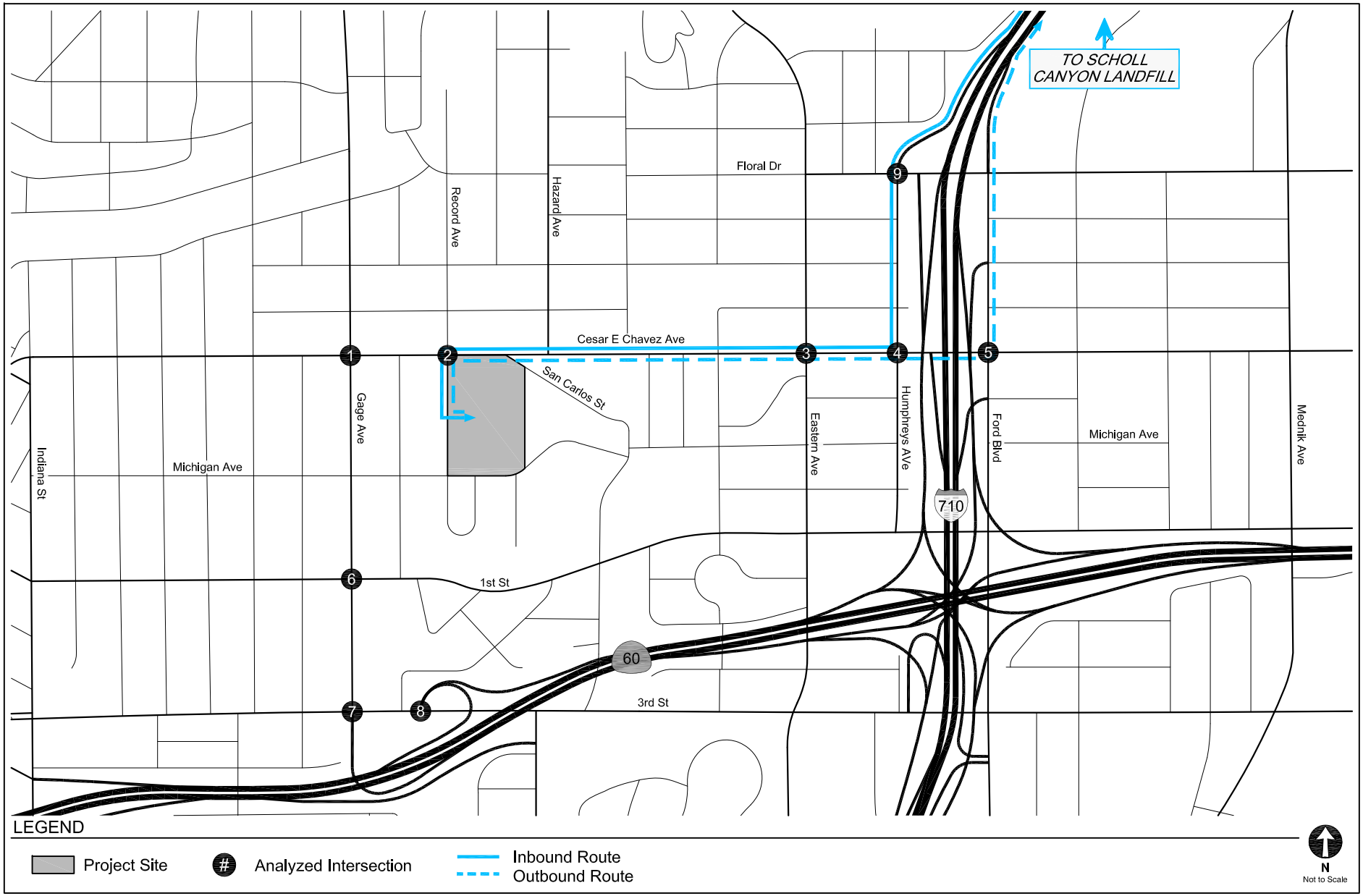
STUDY AREA

FIGURE 2



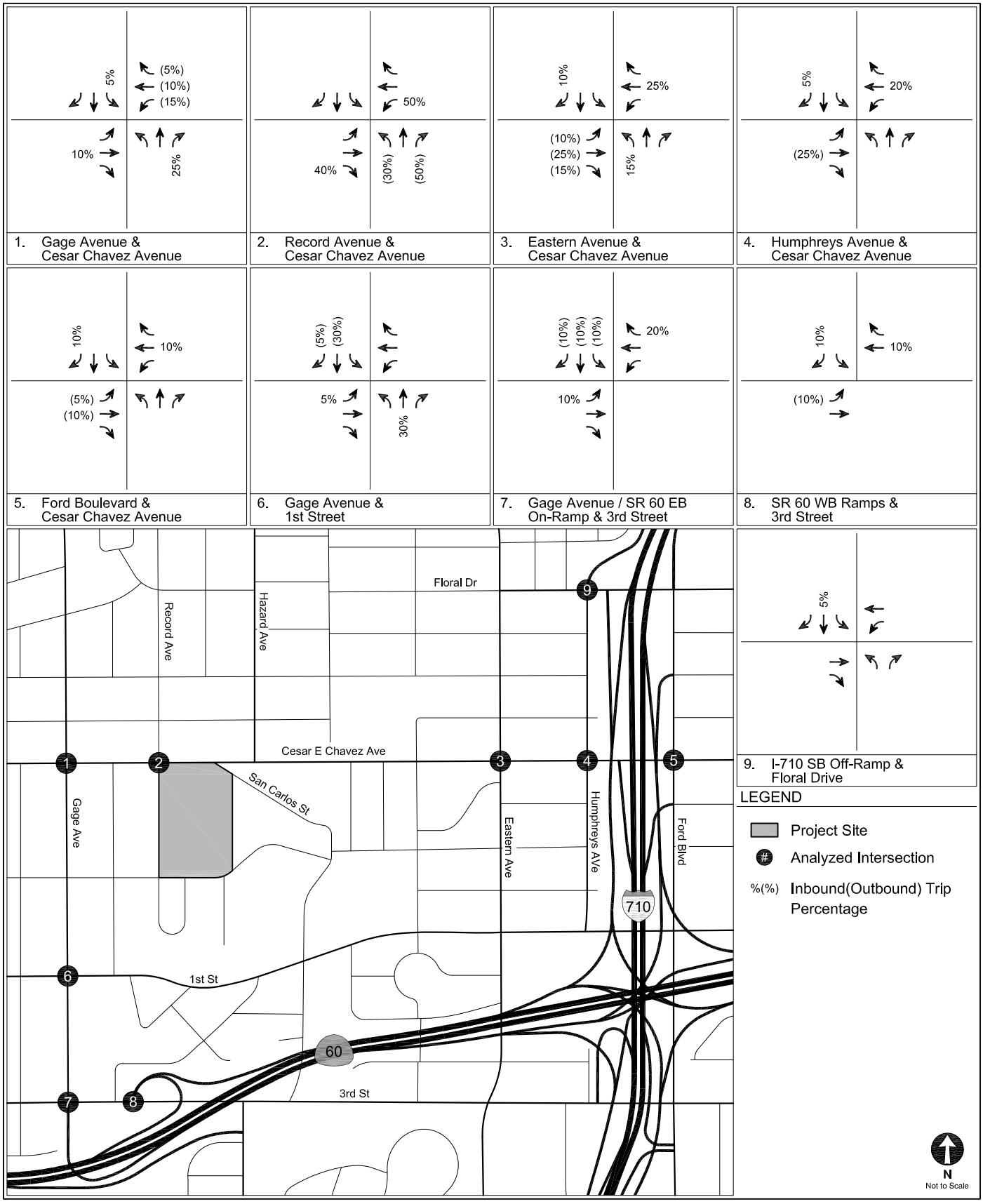
CONSTRUCTION TRUCK HAUL ROUTE
SR 60 EAST

FIGURE
3A



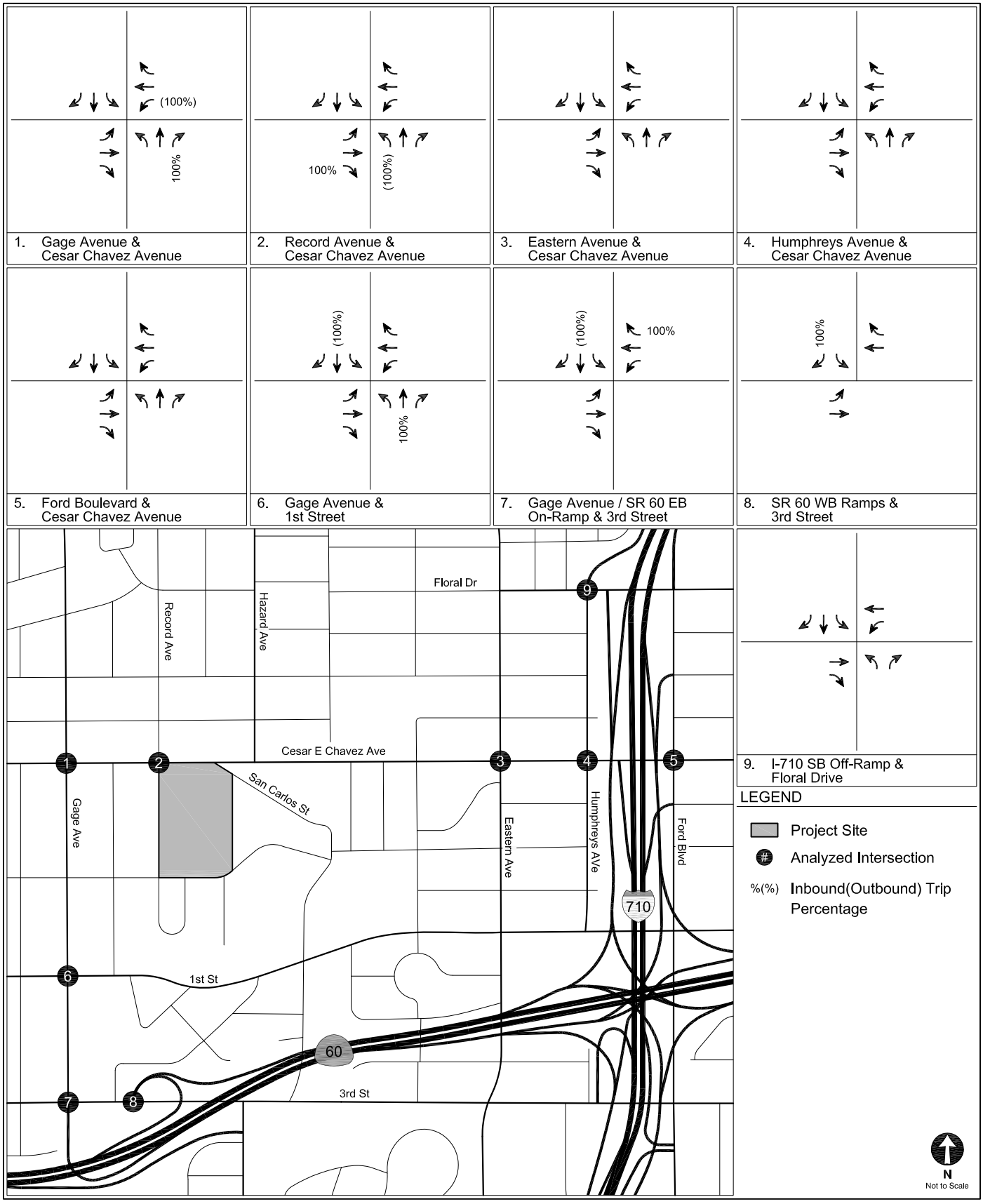
CONSTRUCTION TRUCK HAUL ROUTE
I-710 NORTH

FIGURE
3B



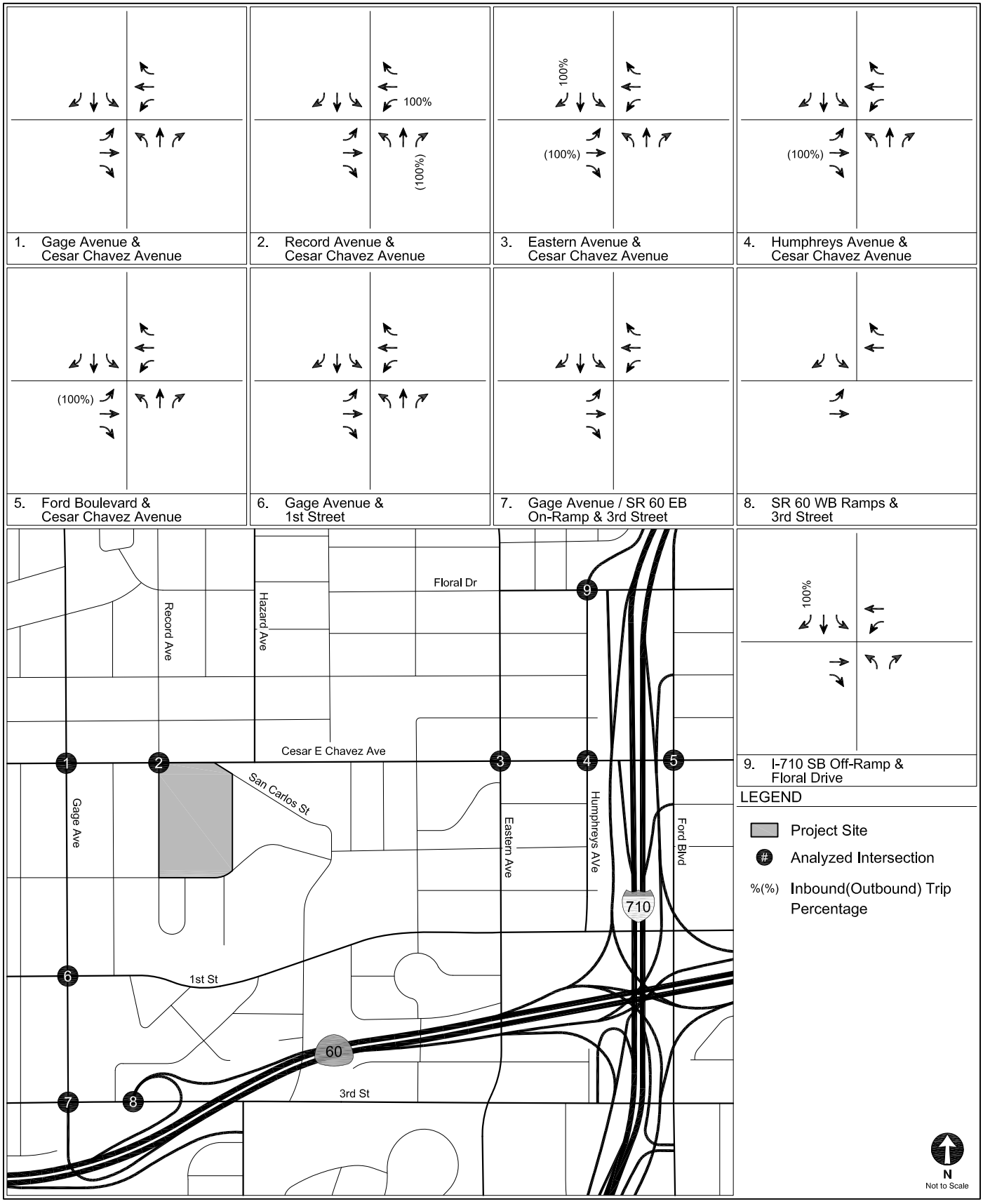
TRIP DISTRIBUTION
CONSTRUCTION WORKER TRIPS

FIGURE
4



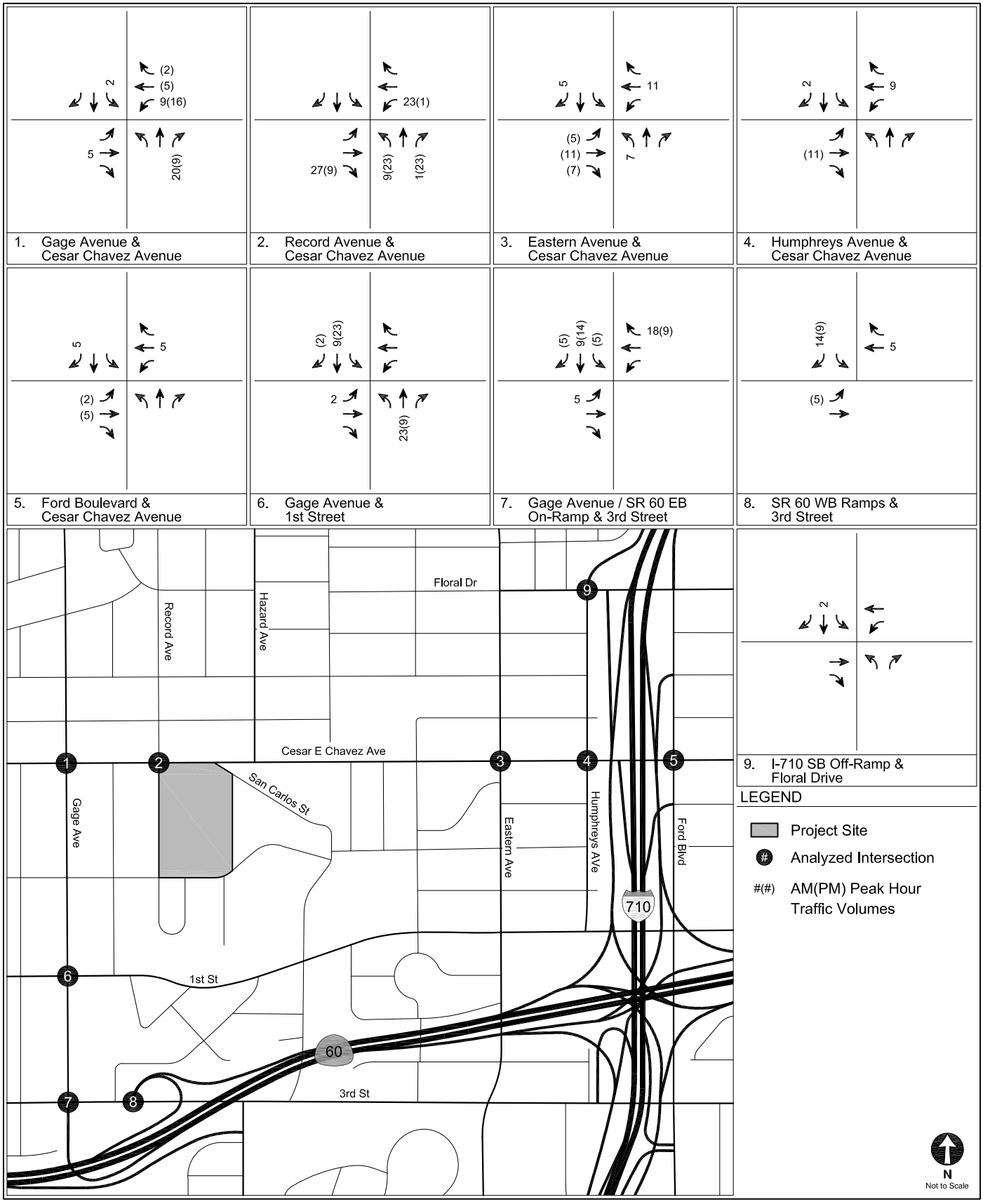
TRIP DISTRIBUTION
CONSTRUCTION TRUCK TRIPS (SR 60 HAUL ROUTE)

FIGURE
5A



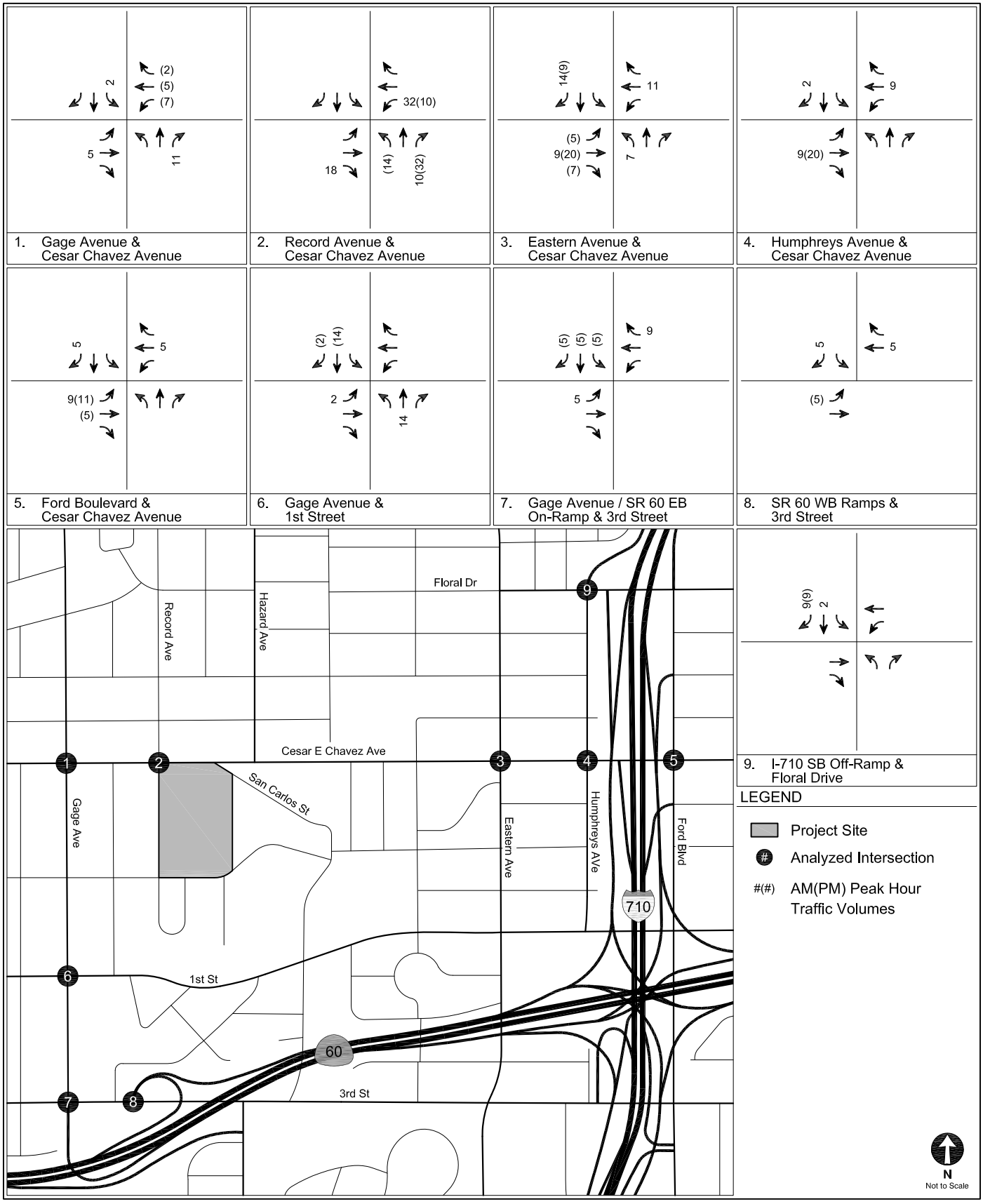
TRIP DISTRIBUTION
CONSTRUCTION TRUCK TRIPS (I-710 HAUL ROUTE)

FIGURE
5B



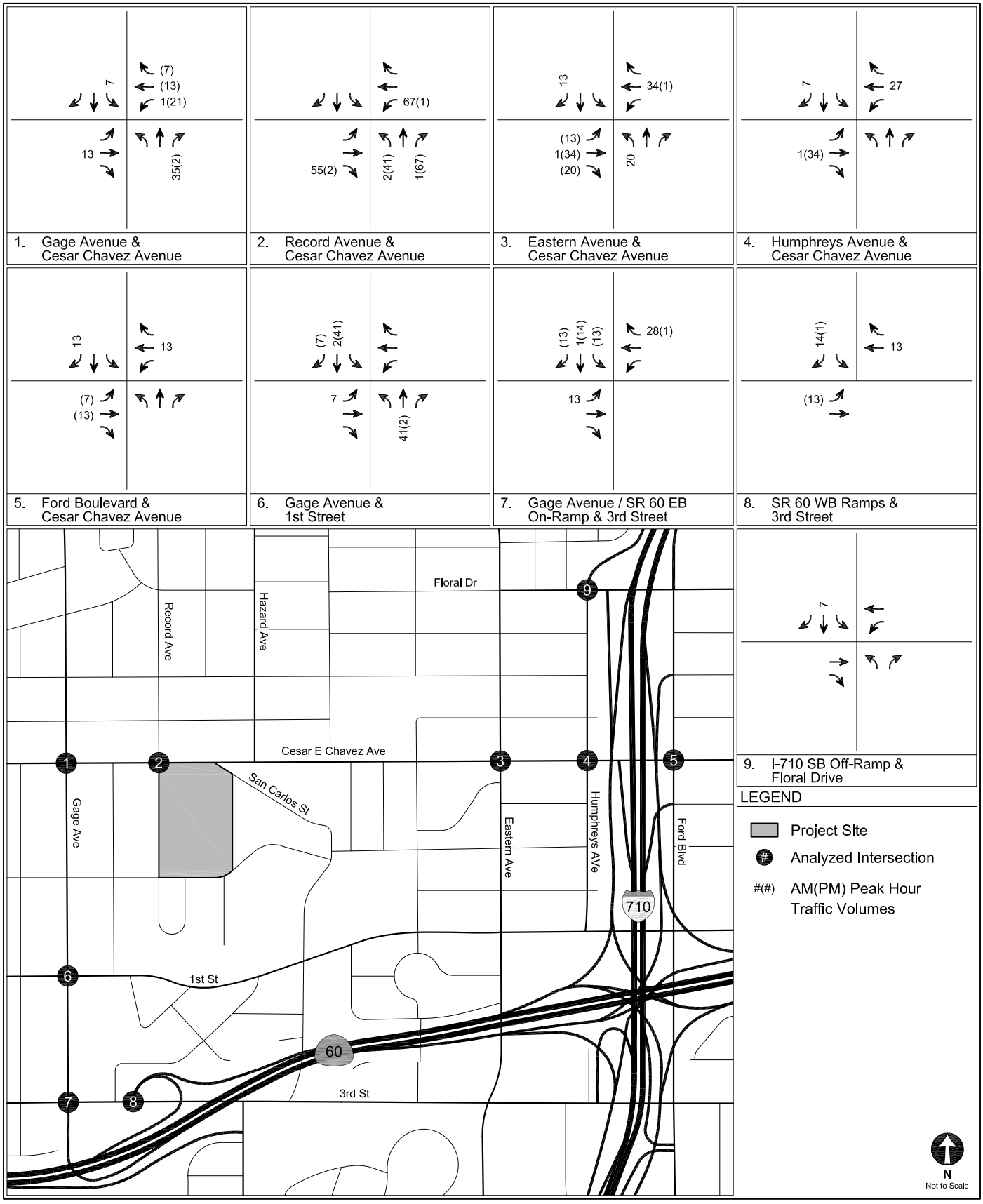
TOTAL CONSTRUCTION-ONLY VOLUMES (DURING SCHOOL)
SR 60 HAUL ROUTE

FIGURE
6A



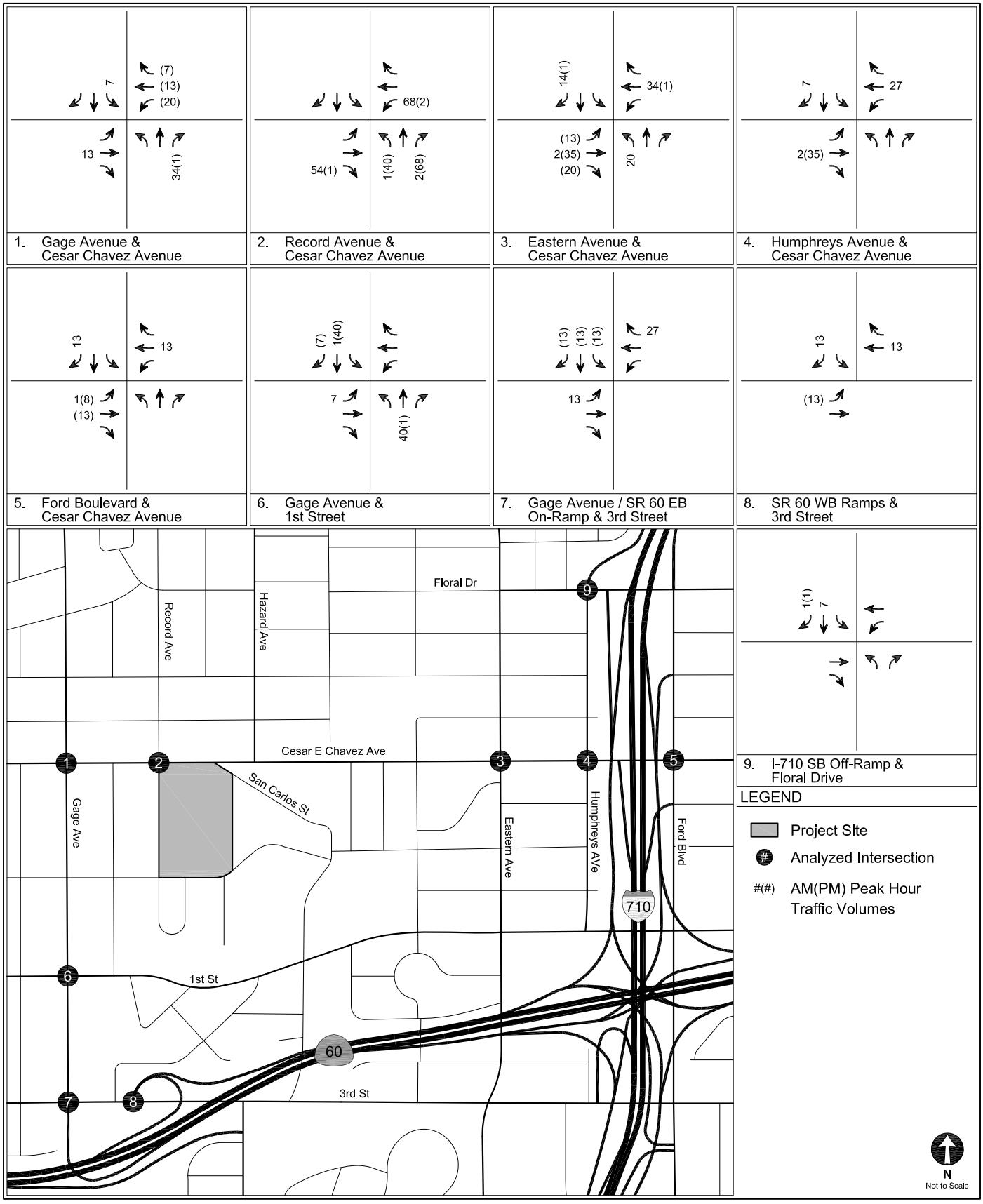
TOTAL CONSTRUCTION-ONLY VOLUMES (DURING SCHOOL)
I-710 HAUL ROUTE

FIGURE
6B



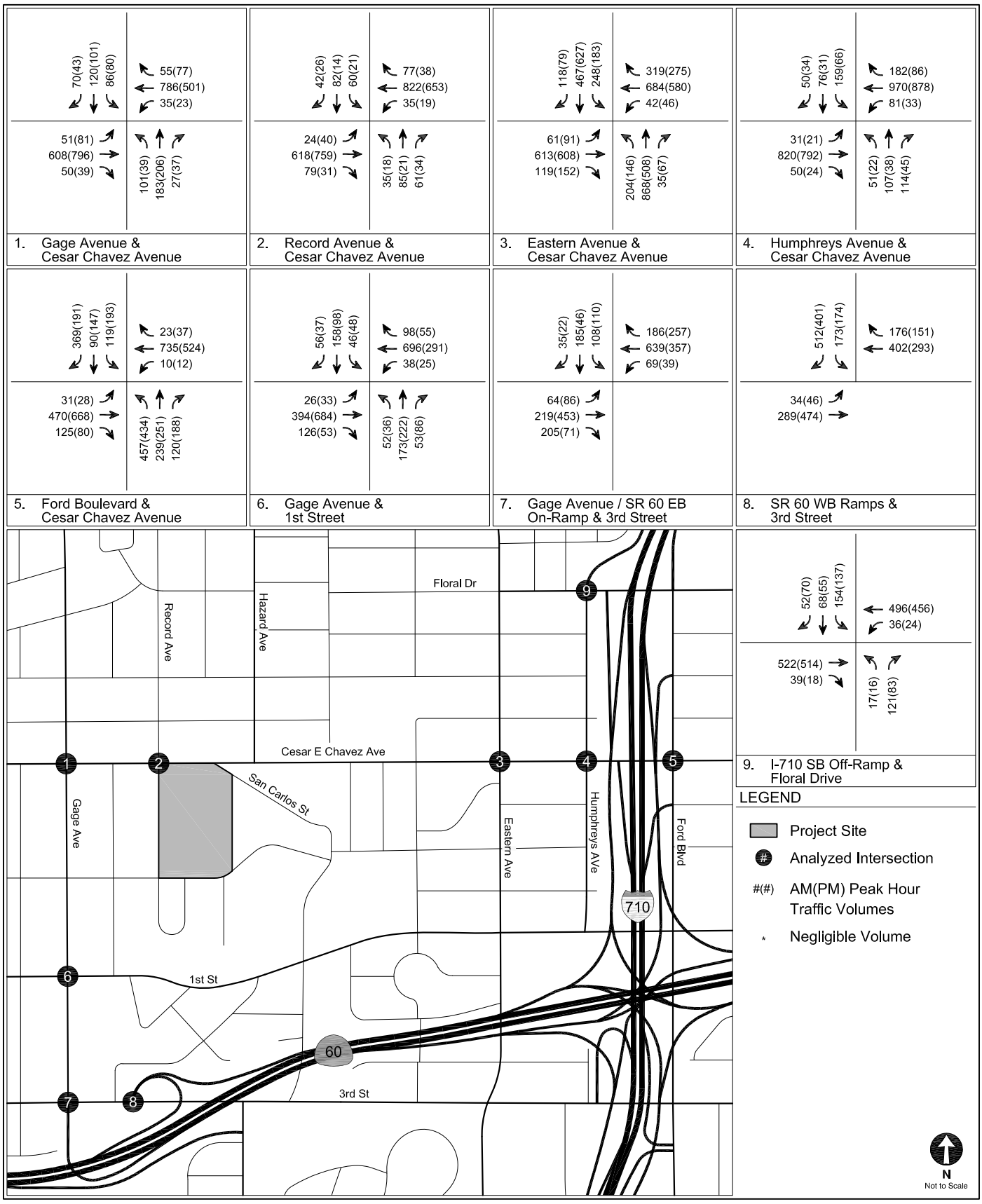
TOTAL CONSTRUCTION-ONLY VOLUMES (DURING SUMMER)
SR 60 HAUL ROUTE

FIGURE
7A



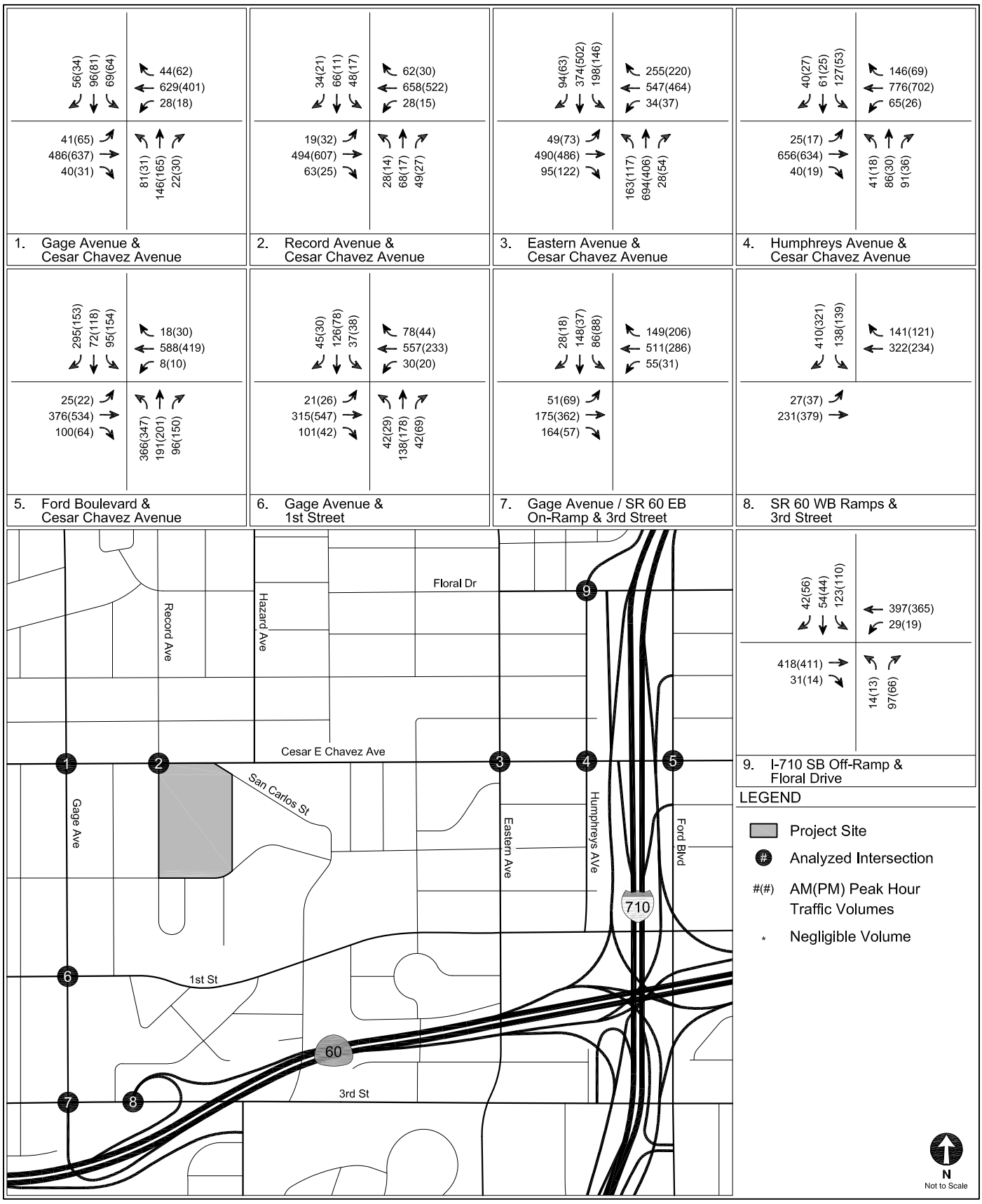
TOTAL CONSTRUCTION-ONLY VOLUMES (DURING SUMMER)
I-710 HAUL ROUTE

FIGURE
7B



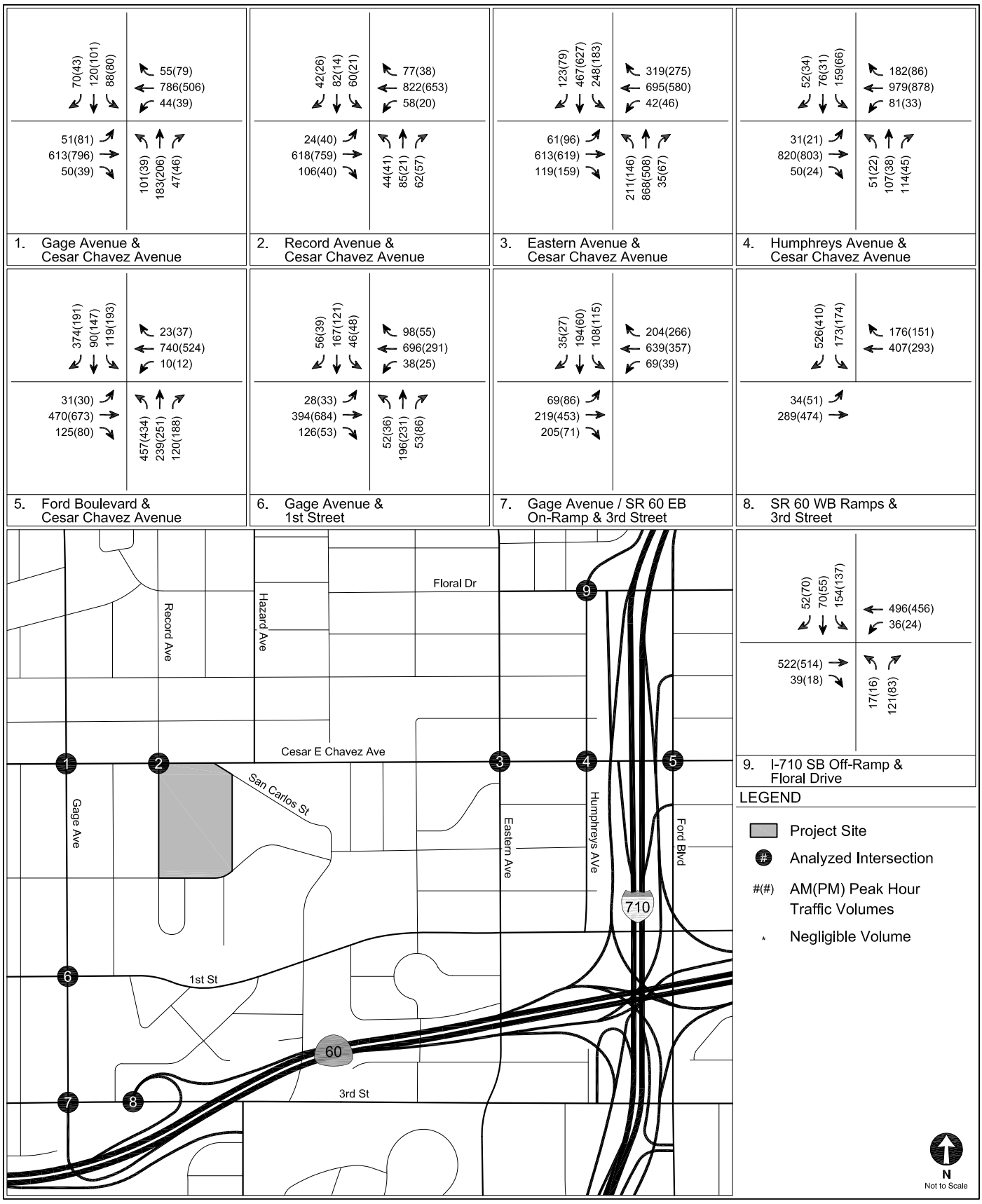
EXISTING CONDITIONS (YEAR 2019)
PEAK HOUR TRAFFIC VOLUMES (DURING SCHOOL)

FIGURE 8



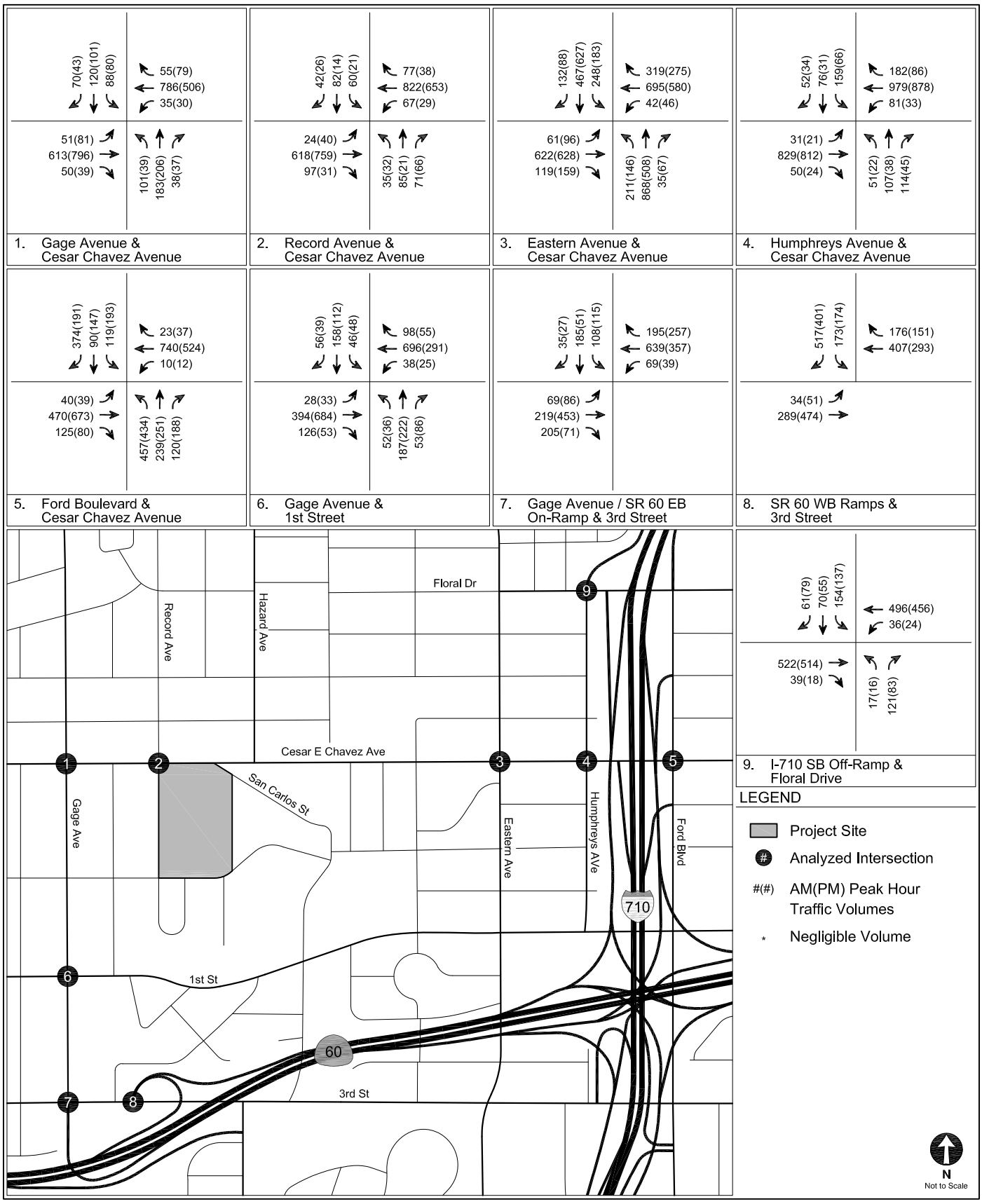
EXISTING CONDITIONS (YEAR 2019)
PEAK HOUR TRAFFIC VOLUMES (DURING SUMMER)

FIGURE 9



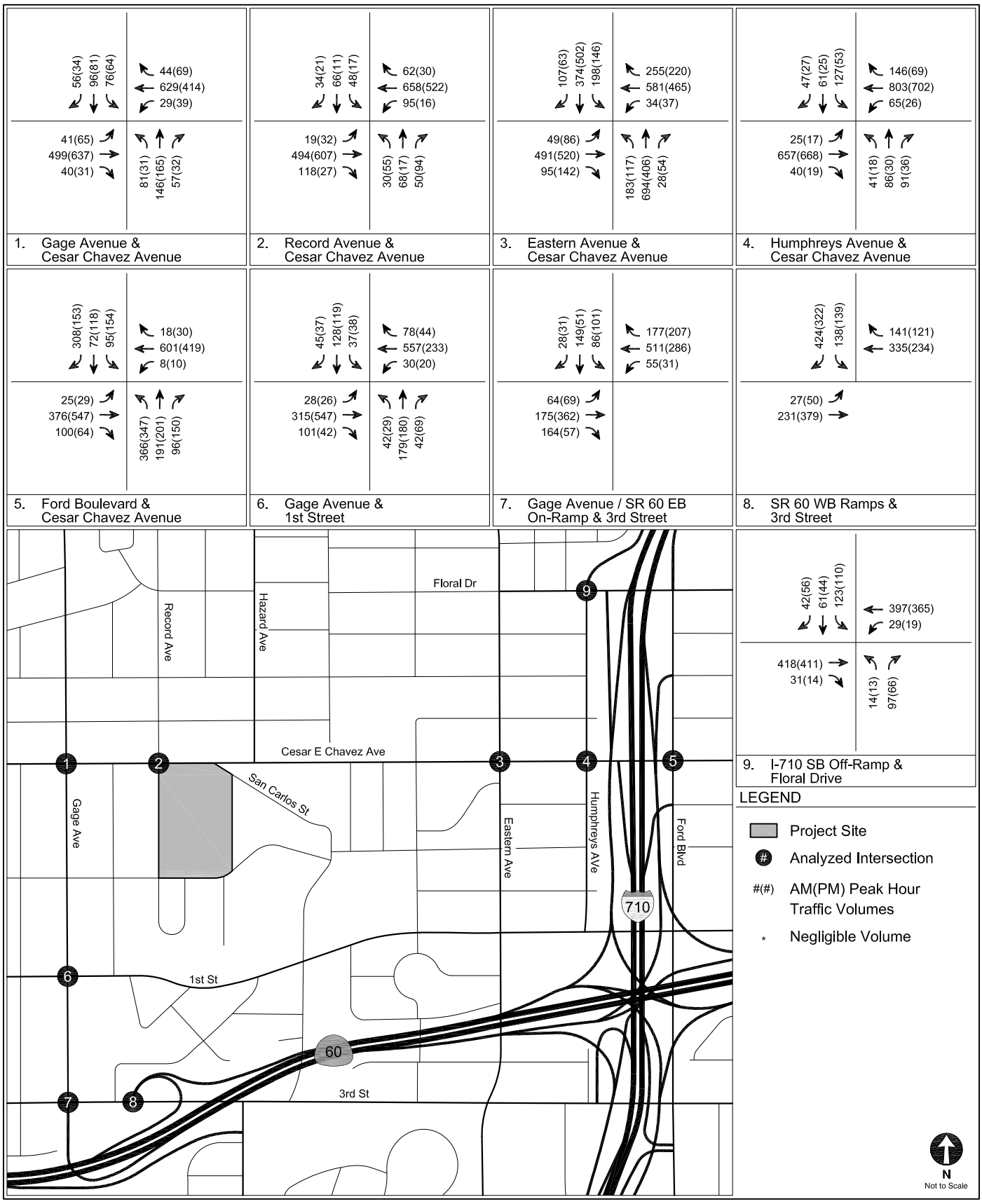
EXISTING WITH CONSTRUCTION CONDITIONS (DURING SCHOOL)
PEAK HOUR TRAFFIC VOLUMES (SR 60 HAUL ROUTE)

FIGURE 10A



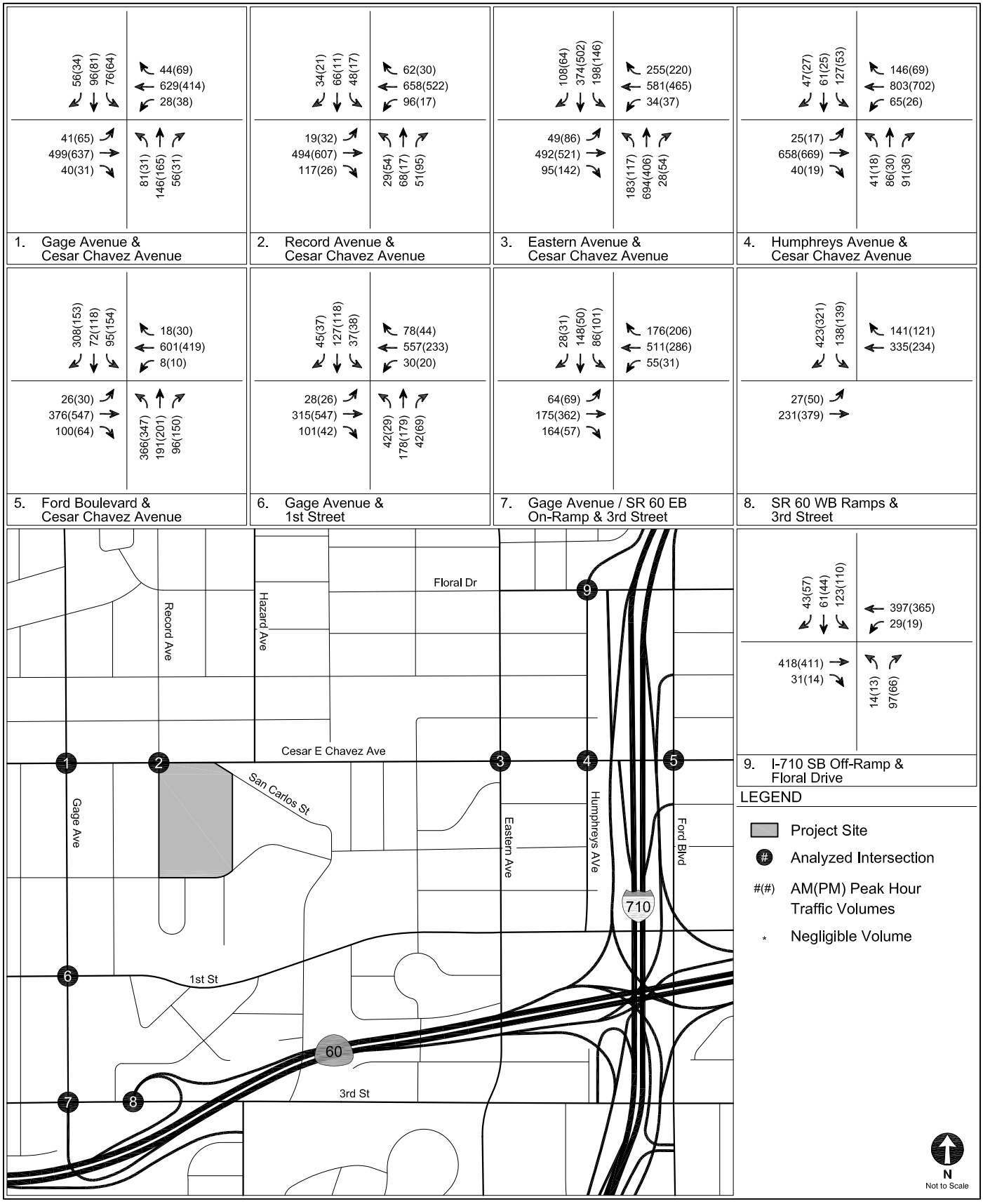
EXISTING WITH CONSTRUCTION CONDITIONS (DURING SCHOOL)
PEAK HOUR TRAFFIC VOLUMES (I-710 HAUL ROUTE)

FIGURE 10B



EXISTING WITH CONSTRUCTION CONDITIONS (DURING SUMMER)
PEAK HOUR TRAFFIC VOLUMES (SR 60 HAUL ROUTE)

FIGURE 11A



EXISTING WITH CONSTRUCTION CONDITIONS (DURING SUMMER)
PEAK HOUR TRAFFIC VOLUMES (I-710 HAUL ROUTE)

FIGURE 11B

TABLE 1
BELVEDERE MIDDLE SCHOOL MODERNIZATION PROJECT
STUDY INTERSECTION LIST

No.	North / South Street	East / West Street	Jurisdiction
1.	Gage Avenue	Cesar Chavez Avenue	County of Los Angeles
2.	Record Avenue	Cesar Chavez Avenue	County of Los Angeles
3.	Eastern Avenue	Cesar Chavez Avenue	County of Los Angeles
4.	Humphreys Avenue	Cesar Chavez Avenue	County of Los Angeles
5.	Ford Boulevard	Cesar Chavez Avenue	County of Los Angeles
6.	Gage Avenue	1st Street	County of Los Angeles
7.	Gage Avenue/SR 60 Eastbound On-Ramp	3rd Street	County of Los Angeles / Caltrans
8.	SR 60 Westbound Ramps	3rd Street	County of Los Angeles / Caltrans
9.	I-710 Southbound Off-Ramp	Floral Drive	County of Los Angeles / Caltrans

TABLE 2
BELVEDERE MIDDLE SCHOOL MODERNIZATION PROJECT
CONSTRUCTION TRAFFIC

Land Use	Units per day	Daily	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Construction During School (Site Prep/Grading and Excavation)								
Heavy Vehicles (14 CY trucks)	35 trucks							
(converted to PCE x 2.0)	70 pce	140	9	9	18	9	9	18
Workers	50 emp							
(AVO factor of 1.135)	44 veh	88	44	0	44	0	44	44
Vendors	8 veh	16	1	1	2	1	1	2
Total (Site Prep/Grading and Excavation Phase)		**244**	**54**	**10**	**64**	**10**	**54**	**64**
Construction During Summer (Building Construction)								
Heavy Vehicles (14 CY trucks)	5 trucks							
(converted to PCE x 2.0)	10 pce	20	1	1	2	1	1	2
Workers	150 emp							
(AVO factor of 1.135)	132 veh	264	132	0	132	0	132	132
Vendors	12 veh	24	2	2	4	2	2	4
Total (Building Construction Phase)		**308**	**135**	**3**	**138**	**3**	**135**	**138**

PCE = passenger car equivalency (to convert trucks into passenger cars for analysis)

AVO = average vehicle occupancy (to account for carpool)

TABLE 3
LEVEL OF SERVICE DEFINITIONS FOR INTERSECTIONS

Level of Service	Signalized Intersection Capacity Utilization	Definition
A	≤ 0.600	**EXCELLENT.** No Vehicle waits longer than one red light and no approach phase is fully used.
B	> 0.600 and ≤ 0.700	**VERY GOOD.** An occasional approach phase is fully utilized; many drivers begin to feel somewhat restricted within groups of vehicles.
C	> 0.700 and ≤ 0.800	**GOOD.** Occasionally drivers may have to wait through more than one red light; backups may develop behind turning vehicles.
D	> 0.800 and ≤ 0.900	**FAIR.** Delays may be substantial during portions of the rush hours, but enough lower volume periods occur to permit clearing of developing lines, preventing excessive backups.
E	> 0.900 and ≤ 1.000	**POOR.** Represents the most vehicles intersection approaches can accommodate; may be long lines of waiting vehicles through several signal cycles.
F	> 1.000	**FAILURE.** Backups from nearby locations or on cross streets may restrict or prevent movement of vehicles out of the intersection approaches. Tremendous delays with continuously increasing queue lengths

TABLE 4A
BELVEDERE MIDDLE SCHOOL MODERNIZATION PROJECT
EXISTING WITH CONSTRUCTION (DURING SCHOOL) - SR-60 HAUL ROUTE
INTERSECTION LEVELS OF SERVICE AND IMPACTS

No	Intersection	Peak Hour	Existing Conditions		Existing with Construction (During School) - SR-60 Haul Route			
			V/C	LOS	V/C	LOS	Change in V/C	Temporary Impact [a]
1.	Gage Avenue &	AM	0.806	D	0.820	D	0.014	NO
	Cesar Chavez Avenue	PM	0.762	C	0.778	C	0.016	NO
2.	Record Avenue &	AM	0.458	A	0.471	A	0.013	NO
	Cesar Chavez Avenue	PM	0.330	A	0.362	A	0.032	NO
3.	Eastern Avenue &	AM	0.719	C	0.723	C	0.004	NO
	Cesar Chavez Avenue	PM	0.596	A	0.599	A	0.003	NO
4.	Humphreys Avenue &	AM	0.648	B	0.651	B	0.003	NO
	Cesar Chavez Avenue	PM	0.421	A	0.421	A	0.000	NO
5.	Ford Boulevard &	AM	0.832	D	0.837	D	0.005	NO
	Cesar Chavez Avenue	PM	0.733	C	0.735	C	0.002	NO
6.	Gage Avenue &	AM	0.479	A	0.495	A	0.016	NO
	1st Street	PM	0.502	A	0.508	A	0.006	NO
7.	Gage Avenue/SR 60 EB On-Ramp &	AM	0.761	C	0.781	C	0.020	NO
	3rd Street	PM	0.549	A	0.569	A	0.020	NO
8.	SR 60 WB Ramps &	AM	0.581	A	0.593	A	0.012	NO
	3rd Street	PM	0.532	A	0.536	A	0.004	NO
9.	I-710 SB Off-Ramp/Humphreys Avenue &	AM	0.545	A	0.545	A	0.000	NO
	Floral Drive	PM	0.488	A	0.488	A	0.000	NO

Notes

[a] Significance thresholds based on *Draft Traffic Impact Analysis Report Guidelines* (County of Los Angeles Department of Public Works, December, 2013).

Intersections		
Pre-Project		Project
LOS	V/C	V/C Increase
C	0.71 to 0.80	0.04 or more
D	0.81 to 0.90	0.02 or more
E	0.91 to 1.00	0.01 or more
F	1.01 or more	0.01 or more

TABLE 4B
BELVEDERE MIDDLE SCHOOL MODERNIZATION PROJECT
EXISTING WITH CONSTRUCTION (DURING SCHOOL) - I-710 HAUL ROUTE
INTERSECTION LEVELS OF SERVICE AND IMPACTS

No	Intersection	Peak Hour	Existing Conditions		Existing with Construction (During School) - I-710 Haul Route			
			V/C	LOS	V/C	LOS	Change in V/C	Temporary Impact [a]
1.	Gage Avenue & Cesar Chavez Avenue	AM	0.806	D	0.814	D	0.008	NO
		PM	0.762	C	0.767	C	0.005	NO
2.	Record Avenue & Cesar Chavez Avenue	AM	0.458	A	0.474	A	0.016	NO
		PM	0.330	A	0.364	A	0.034	NO
3.	Eastern Avenue & Cesar Chavez Avenue	AM	0.719	C	0.723	C	0.004	NO
		PM	0.596	A	0.601	B	0.005	NO
4.	Humphreys Avenue & Cesar Chavez Avenue	AM	0.648	B	0.651	B	0.003	NO
		PM	0.421	A	0.421	A	0.000	NO
5.	Ford Boulevard & Cesar Chavez Avenue	AM	0.832	D	0.843	D	0.011	NO
		PM	0.733	C	0.738	C	0.005	NO
6.	Gage Avenue & 1st Street	AM	0.479	A	0.490	A	0.011	NO
		PM	0.502	A	0.502	A	0.000	NO
7.	Gage Avenue/SR 60 EB On-Ramp & 3rd Street	AM	0.761	C	0.769	C	0.008	NO
		PM	0.549	A	0.559	A	0.010	NO
8.	SR 60 WB Ramps & 3rd Street	AM	0.581	A	0.588	A	0.007	NO
		PM	0.532	A	0.531	A	-0.001	NO
9.	I-710 SB Off-Ramp/Humphreys Avenue & Floral Drive	AM	0.545	A	0.545	A	0.000	NO
		PM	0.488	A	0.494	A	0.006	NO

Notes

[a] Significance thresholds based on *Draft Traffic Impact Analysis Report Guidelines* (County of Los Angeles Department of Public Works, December, 2013).

Intersections		
Pre-Project		Project
LOS	V/C	V/C Increase
C	0.71 to 0.80	0.04 or more
D	0.81 to 0.90	0.02 or more
E	0.91 to 1.00	0.01 or more
F	1.01 or more	0.01 or more

TABLE 5A
BELVEDERE MIDDLE SCHOOL MODERNIZATION PROJECT
EXISTING WITH CONSTRUCTION (DURING SUMMER) - SR-60 HAUL ROUTE
INTERSECTION LEVELS OF SERVICE AND IMPACTS

No	Intersection	Peak Hour	Existing Conditions		Existing with Construction (During Summer) - SR-60 Haul Route			
			V/C	LOS	V/C	LOS	Change in V/C	Temporary Impact [a]
1.	Gage Avenue & Cesar Chavez Avenue	AM	0.646	B	0.673	B	0.027	NO
		PM	0.610	B	0.625	B	0.015	NO
2.	Record Avenue & Cesar Chavez Avenue	AM	0.367	A	0.390	A	0.023	NO
		PM	0.264	A	0.333	A	0.069	NO
3.	Eastern Avenue & Cesar Chavez Avenue	AM	0.577	A	0.587	A	0.010	NO
		PM	0.478	A	0.486	A	0.008	NO
4.	Humphreys Avenue & Cesar Chavez Avenue	AM	0.519	A	0.528	A	0.009	NO
		PM	0.338	A	0.338	A	0.000	NO
5.	Ford Boulevard & Cesar Chavez Avenue	AM	0.666	B	0.679	B	0.013	NO
		PM	0.586	A	0.592	A	0.006	NO
6.	Gage Avenue & 1st Street	AM	0.383	A	0.413	A	0.030	NO
		PM	0.402	A	0.403	A	0.001	NO
7.	Gage Avenue/SR 60 EB On-Ramp & 3rd Street	AM	0.609	B	0.634	B	0.025	NO
		PM	0.440	A	0.465	A	0.025	NO
8.	SR 60 WB Ramps & 3rd Street	AM	0.466	A	0.483	A	0.017	NO
		PM	0.426	A	0.423	A	-0.003	NO
9.	I-710 SB Off-Ramp/Humphreys Avenue & Floral Drive	AM	0.436	A	0.436	A	0.000	NO
		PM	0.390	A	0.390	A	0.000	NO

Notes

[a] Significance thresholds based on *Draft Traffic Impact Analysis Report Guidelines* (County of Los Angeles Department of Public Works, December, 2013).

Intersections		
Pre-Project		Project
LOS	V/C	V/C Increase
C	0.71 to 0.80	0.04 or more
D	0.81 to 0.90	0.02 or more
E	0.91 to 1.00	0.01 or more
F	1.01 or more	0.01 or more

TABLE 5B
BELVEDERE MIDDLE SCHOOL MODERNIZATION PROJECT
EXISTING WITH CONSTRUCTION (DURING SUMMER) - I-710 HAUL ROUTE
INTERSECTION LEVELS OF SERVICE AND IMPACTS

No	Intersection	Peak Hour	Existing Conditions		Existing with Construction (During Summer) - I-710 Haul Route			
			V/C	LOS	V/C	LOS	Change in V/C	Temporary Impact [a]
1.	Gage Avenue & Cesar Chavez Avenue	AM	0.646	B	0.672	B	0.026	NO
		PM	0.610	B	0.624	B	0.014	NO
2.	Record Avenue & Cesar Chavez Avenue	AM	0.367	A	0.390	A	0.023	NO
		PM	0.264	A	0.334	A	0.070	NO
3.	Eastern Avenue & Cesar Chavez Avenue	AM	0.577	A	0.587	A	0.010	NO
		PM	0.478	A	0.486	A	0.008	NO
4.	Humphreys Avenue & Cesar Chavez Avenue	AM	0.519	A	0.528	A	0.009	NO
		PM	0.338	A	0.338	A	0.000	NO
5.	Ford Boulevard & Cesar Chavez Avenue	AM	0.666	B	0.679	B	0.013	NO
		PM	0.586	A	0.592	A	0.006	NO
6.	Gage Avenue & 1st Street	AM	0.383	A	0.413	A	0.030	NO
		PM	0.402	A	0.402	A	0.000	NO
7.	Gage Avenue/SR 60 EB On-Ramp & 3rd Street	AM	0.609	B	0.633	B	0.024	NO
		PM	0.440	A	0.465	A	0.025	NO
8.	SR 60 WB Ramps & 3rd Street	AM	0.466	A	0.482	A	0.016	NO
		PM	0.426	A	0.422	A	-0.004	NO
9.	I-710 SB Off-Ramp/Humphreys Avenue & Floral Drive	AM	0.436	A	0.436	A	0.000	NO
		PM	0.390	A	0.390	A	0.000	NO

Notes

[a] Significance thresholds based on *Draft Traffic Impact Analysis Report Guidelines* (County of Los Angeles Department of Public Works, December, 2013).

Intersections		
Pre-Project		Project
LOS	V/C	V/C Increase
C	0.71 to 0.80	0.04 or more
D	0.81 to 0.90	0.02 or more
E	0.91 to 1.00	0.01 or more
F	1.01 or more	0.01 or more

Attachment A

Traffic Count Worksheets

Turning Movement Count Report AM

Location ID: 1
North/South: Gage Avenue
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	10	33	17	11	175	10	4	29	25	13	127	9	463
7:15	19	34	23	15	192	10	4	48	20	18	144	8	535
7:30	17	31	22	12	188	9	9	55	29	13	165	17	567
7:45	11	30	25	10	211	4	5	45	27	10	156	13	547
8:00	23	25	16	18	195	12	9	35	25	9	143	13	523
8:15	12	25	16	12	163	7	5	25	17	14	119	7	422
8:30	12	28	20	17	177	5	4	22	10	6	105	8	414
8:45	12	18	13	10	194	5	6	18	13	13	117	9	428
Total Volume:	116	224	152	105	1495	62	46	277	166	96	1076	84	3899
Approach %	24%	46%	31%	6%	90%	4%	9%	57%	34%	8%	86%	7%	
Peak Hr Begin:	7:15												
PHV	70	120	86	55	786	35	27	183	101	50	608	51	2172
PHF	0.908			0.973			0.836			0.909			0.958

Turning Movement Count Report PM

Location ID: 1
North/South: Gage Avenue
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
16:00	15	28	14	28	144	5	7	46	10	13	178	23	511
16:15	17	19	19	27	160	8	6	39	11	12	188	24	530
16:30	21	17	12	30	146	2	2	41	10	14	162	15	472
16:45	13	23	16	23	130	7	5	33	11	11	192	26	490
17:00	11	19	22	19	135	5	8	48	8	10	202	16	503
17:15	12	29	16	19	114	2	11	61	9	9	186	27	495
17:30	10	22	14	24	127	5	10	57	13	11	204	15	512
17:45	10	31	28	15	125	11	8	40	9	9	204	23	513
Total Volume:	109	188	141	185	1081	45	57	365	81	89	1516	169	4026
Approach %	25%	43%	32%	14%	82%	3%	11%	73%	16%	5%	85%	10%	
Peak Hr Begin:	17:00												
PHV	43	101	80	77	501	23	37	206	39	39	796	81	2023
PHF	0.812			0.945			0.870			0.970			0.986

Pedestrian/Bicycle Count Report

Location ID: 1
North/South: Gage Avenue
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
7:00	7	0	11	0	5	0	0	0
7:15	30	2	12	1	22	0	4	0
7:30	31	1	15	1	30	0	0	1
7:45	9	1	8	0	19	0	5	0
8:00	9	0	6	0	4	0	2	0
8:15	10	0	3	0	7	0	3	0
8:30	7	1	6	0	10	0	0	1
8:45	4	1	5	0	8	0	2	0

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
16:00	19	0	4	0	13	0	6	0
16:15	10	1	6	0	10	1	5	0
16:30	9	1	4	1	23	1	6	0
16:45	8	2	8	1	16	0	6	0
17:00	3	1	5	0	16	2	7	1
17:15	8	2	5	0	15	2	9	0
17:30	7	0	11	0	8	3	10	1
17:45	13	1	7	0	11	1	7	1

Turning Movement Count Report AM

Location ID: 2
North/South: Record Avenue
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	14	7	3	8	182	13	19	9	14	12	134	5	420
7:15	9	25	22	10	188	5	14	26	14	23	135	3	474
7:30	15	27	16	18	203	6	22	33	14	32	157	6	549
7:45	7	26	12	25	218	12	22	17	4	17	166	10	536
8:00	11	4	10	24	213	12	3	9	3	7	160	5	461
8:15	5	4	9	6	157	8	6	7	4	4	125	5	340
8:30	5	2	5	8	200	2	5	2	4	3	128	3	367
8:45	4	3	2	6	202	2	1	4	1	5	130	3	363

Total Volume:	70	98	79	105	1563	60	92	107	58	103	1135	40	3510
Approach %	28%	40%	32%	6%	90%	3%	36%	42%	23%	8%	89%	3%	

Peak Hr Begin:	7:15												
PHV	42	82	60	77	822	35	61	85	35	79	618	24	2020
PHF	0.793			0.916			0.656			0.924			0.920

Turning Movement Count Report PM

Location ID: 2
North/South: Record Avenue
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
16:00	3	1	8	11	183	5	0	4	0	5	186	6	412
16:15	9	3	5	9	174	7	11	4	5	13	181	8	429
16:30	6	4	3	7	173	7	14	11	4	8	163	9	409
16:45	6	1	6	14	144	1	4	4	6	4	199	12	401
17:00	5	6	7	8	162	4	5	2	3	6	216	11	435
17:15	4	2	7	11	124	2	2	8	3	7	198	5	373
17:30	11	2	9	11	146	4	3	3	5	6	213	7	420
17:45	10	1	2	11	149	4	5	3	0	2	237	12	436
Total Volume:	54	20	47	82	1255	34	44	39	26	51	1593	70	3315
Approach %	45%	17%	39%	6%	92%	2%	40%	36%	24%	3%	93%	4%	
Peak Hr Begin:	16:15												
PHV	26	14	21	38	653	19	34	21	18	31	759	40	1674
PHF	0.847			0.934			0.629			0.891			0.962

Pedestrian/Bicycle Count Report

Location ID: 2
North/South: Record Avenue
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
7:00	5	0	40	0	18	0	4	1
7:15	41	0	66	0	38	1	33	2
7:30	33	1	78	0	70	0	31	0
7:45	5	0	19	0	23	0	9	0
8:00	2	0	10	0	7	0	5	0
8:15	4	0	8	0	3	0	5	0
8:30	1	1	7	0	9	1	7	0
8:45	4	0	5	1	7	0	3	0

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
16:00	12	0	17	0	13	0	8	0
16:15	7	1	3	1	10	0	5	0
16:30	13	2	45	0	23	0	5	0
16:45	6	0	4	0	9	0	4	0
17:00	5	0	4	0	6	1	7	1
17:15	7	1	7	1	8	2	7	1
17:30	2	0	16	0	9	1	6	0
17:45	10	0	14	0	8	4	2	0

Turning Movement Count Report AM

Location ID: 3
North/South: Eastern Avenue
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	19	55	44	72	160	7	8	159	34	16	112	12	698
7:15	17	93	54	87	163	11	8	211	47	21	138	15	865
7:30	27	124	70	69	175	4	9	241	49	29	172	12	981
7:45	43	127	60	74	186	13	8	229	62	45	158	17	1022
8:00	31	123	64	89	160	14	10	187	46	24	145	17	910
8:15	15	86	44	86	146	13	10	145	26	21	128	22	742
8:30	11	47	37	67	162	9	15	86	31	14	118	14	611
8:45	16	78	42	44	176	15	8	92	19	13	117	17	637
Total Volume:	179	733	415	588	1328	86	76	1350	314	183	1088	126	6466
Approach %	13%	55%	31%	29%	66%	4%	4%	78%	18%	13%	78%	9%	
Peak Hr Begin:	7:15												
PHV	118	467	248	319	684	42	35	868	204	119	613	61	3778
PHF	0.905			0.957			0.926			0.901			0.924

Turning Movement Count Report PM

Location ID: 3
North/South: Eastern Avenue
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
16:00	21	168	51	63	155	11	20	131	32	40	152	22	866
16:15	20	132	39	64	164	17	16	125	44	38	163	22	844
16:30	21	163	41	67	138	10	19	108	34	38	144	25	808
16:45	17	164	52	81	123	8	12	144	36	36	149	22	844
17:00	22	147	52	99	138	12	8	140	35	37	151	25	866
17:15	24	139	46	90	115	8	13	166	28	33	158	18	838
17:30	15	136	33	85	113	12	5	147	43	33	159	19	800
17:45	12	144	32	71	139	10	13	142	32	21	175	20	811
Total Volume:	152	1193	346	620	1085	88	106	1103	284	276	1251	173	6677
Approach %	9%	71%	20%	35%	61%	5%	7%	74%	19%	16%	74%	10%	
Peak Hr Begin:	16:00												
PHV	79	627	183	275	580	46	67	508	146	152	608	91	3362
PHF	0.926			0.919			0.939			0.954			0.971

Pedestrian/Bicycle Count Report

Location ID: 3
North/South: Eastern Avenue
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
7:00	6	0	6	0	4	0	9	0
7:15	11	0	9	0	0	0	8	0
7:30	17	0	10	0	2	0	14	0
7:45	20	0	12	1	0	0	14	0
8:00	6	0	4	0	7	0	13	0
8:15	5	0	3	0	1	0	4	0
8:30	5	0	2	0	2	0	7	0
8:45	3	0	2	0	3	0	6	0

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
16:00	2	0	1	0	4	0	7	1
16:15	1	0	4	0	0	0	14	0
16:30	1	0	5	0	0	0	2	2
16:45	10	1	6	0	1	0	2	0
17:00	7	0	4	0	2	0	15	1
17:15	5	0	6	0	0	0	14	0
17:30	3	0	0	0	8	0	15	0
17:45	1	0	2	0	2	0	5	0

Turning Movement Count Report AM

Location ID: 4
North/South: Humphreys Avenue
East/West: Cesar Chavez Avenue

Date: 4/24/2019
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	4	5	17	16	243	10	10	8	5	8	164	5	495
7:15	8	14	28	37	260	22	28	22	5	9	208	3	644
7:30	13	11	49	57	229	29	31	29	17	13	218	10	706
7:45	13	35	41	50	242	21	45	36	20	19	203	9	734
8:00	16	16	41	38	239	9	10	20	9	9	191	9	607
8:15	4	7	18	14	237	10	10	1	2	6	169	8	486
8:30	6	3	23	8	232	8	5	5	3	3	155	7	458
8:45	6	4	13	12	221	8	6	9	2	5	175	3	464
Total Volume:	70	95	230	232	1903	117	145	130	63	72	1483	54	4594
Approach %	18%	24%	58%	10%	85%	5%	43%	38%	19%	4%	92%	3%	
Peak Hr Begin:	7:15												
PHV	50	76	159	182	970	81	114	107	51	50	820	31	2691
PHF	0.801			0.966			0.673			0.935			0.917

Turning Movement Count Report PM

Location ID: 4
North/South: Humphreys Avenue
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
16:00	10	6	15	29	229	16	13	10	4	3	198	4	537
16:15	6	6	16	18	242	9	7	6	4	10	214	2	540
16:30	8	9	17	22	196	5	12	10	11	4	180	8	482
16:45	10	10	18	17	211	3	13	12	3	7	200	7	511
17:00	9	10	11	20	230	16	10	8	5	4	209	3	535
17:15	4	11	18	25	198	7	10	8	0	7	206	6	500
17:30	15	9	10	20	203	9	9	3	1	4	192	5	480
17:45	7	14	15	27	209	9	12	4	1	5	199	7	509
Total Volume:	69	75	120	178	1718	74	86	61	29	44	1598	42	4094
Approach %	26%	28%	45%	9%	87%	4%	49%	35%	16%	3%	95%	2%	
Peak Hr Begin:	16:00												
PHV	34	31	66	86	878	33	45	38	22	24	792	21	2070
PHF	0.862			0.910			0.795			0.926			0.958

Pedestrian/Bicycle Count Report

Location ID: 4
North/South: Humphreys Avenue
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
7:00	2	0	1	0	0	0	1	0
7:15	4	2	2	0	1	0	9	0
7:30	7	0	4	0	1	0	16	0
7:45	5	1	5	0	6	0	17	0
8:00	7	0	5	0	3	0	5	0
8:15	6	2	1	1	2	1	4	1
8:30	1	1	2	0	0	0	1	0
8:45	3	0	0	0	3	0	1	0

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
16:00	4	0	0	0	1	1	1	0
16:15	3	0	0	0	0	1	4	0
16:30	5	0	3	0	0	0	10	0
16:45	1	1	0	0	6	0	1	1
17:00	4	0	1	0	1	1	2	0
17:15	5	1	1	0	1	0	2	0
17:30	1	0	0	0	10	1	1	0
17:45	4	0	0	0	0	1	5	0

Turning Movement Count Report AM

Location ID: 5
North/South: Ford Boulevard
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	58	24	28	9	150	1	25	50	126	5	70	5	551
7:15	97	23	51	9	202	2	27	41	105	18	116	4	695
7:30	117	22	31	4	171	1	23	76	116	40	118	10	729
7:45	92	23	23	3	197	1	31	68	113	43	130	7	731
8:00	63	22	14	7	165	6	39	54	123	24	106	10	633
8:15	45	12	19	2	143	6	31	52	130	10	89	12	551
8:30	63	8	29	16	166	1	46	43	81	3	110	6	572
8:45	45	16	22	6	177	2	55	43	101	12	118	6	603
Total Volume:	580	150	217	56	1371	20	277	427	895	155	857	60	5065
Approach %	61%	16%	23%	4%	95%	1%	17%	27%	56%	14%	80%	6%	
Peak Hr Begin:	7:15												
PHV	369	90	119	23	735	10	120	239	457	125	470	31	2788
PHF	0.845			0.901			0.944			0.869			0.953

Turning Movement Count Report PM

Location ID: 5
North/South: Ford Boulevard
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
16:00	68	58	31	13	176	2	29	67	88	20	156	9	717
16:15	59	40	36	4	156	3	39	72	83	25	154	11	682
16:30	51	22	41	9	120	7	44	65	106	24	147	11	647
16:45	65	25	43	5	108	2	49	68	107	20	161	9	662
17:00	65	44	47	13	166	3	47	48	106	14	160	5	718
17:15	40	36	49	10	107	1	45	72	124	17	164	7	672
17:30	31	30	40	6	123	5	51	66	96	27	167	5	647
17:45	55	37	57	8	128	3	45	65	108	22	177	11	716

Total Volume:	434	292	344	68	1084	26	349	523	818	169	1286	68	5461
Approach %	41%	27%	32%	6%	92%	2%	21%	31%	48%	11%	84%	4%	

Peak Hr Begin:	17:00												
PHV	191	147	193	37	524	12	188	251	434	80	668	28	2753
PHF	0.851			0.787			0.906			0.924			0.959

Pedestrian/Bicycle Count Report

Location ID: 5
North/South: Ford Boulevard
East/West: Cesar Chavez Avenue

Date: 04/24/19
City: Los Angeles, CA

Leg:	North		East		South		West	
Class:	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle
7:00	6	0	1	0	1	0	1	0
7:15	13	1	2	0	8	0	0	0
7:30	16	0	9	0	5	0	3	0
7:45	8	0	5	1	6	0	0	0
8:00	8	0	3	1	5	1	0	1
8:15	14	1	3	1	5	1	2	0
8:30	4	0	1	0	2	0	2	0
8:45	6	0	5	0	5	1	2	0

Leg:	North		East		South		West	
Class:	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle
16:00	5	0	2	0	3	0	1	0
16:15	6	0	5	0	3	1	2	0
16:30	6	0	3	0	5	0	2	1
16:45	9	1	2	0	3	0	0	0
17:00	11	0	6	0	5	1	1	0
17:15	5	0	1	0	4	0	3	0
17:30	3	0	2	0	11	1	0	0
17:45	7	0	5	0	3	0	1	0

Turning Movement Count Report AM

Location ID: 6
North/South: Gage Avenue
East/West: 1st Street

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	6	42	7	15	145	11	11	38	7	21	58	3	364
7:15	10	49	15	23	178	12	4	40	12	26	128	4	501
7:30	15	39	13	21	198	9	26	44	12	41	106	7	531
7:45	10	38	10	27	176	8	20	46	10	33	91	11	480
8:00	21	32	8	27	144	9	3	43	18	26	69	4	404
8:15	10	47	3	15	123	10	15	32	12	14	51	8	340
8:30	7	36	10	6	109	9	15	26	13	10	60	3	304
8:45	11	27	6	12	95	8	9	30	7	18	61	1	285
Total Volume:	90	310	72	146	1168	76	103	299	91	189	624	41	3209
Approach %	19%	66%	15%	11%	84%	5%	21%	61%	18%	22%	73%	5%	
Peak Hr Begin:	7:15												
PHV	56	158	46	98	696	38	53	173	52	126	394	26	1916
PHF	0.878			0.912			0.848			0.864			0.902

Turning Movement Count Report PM

Location ID: 6
North/South: Gage Avenue
East/West: 1st Street

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
16:00	11	33	9	17	84	8	21	51	9	12	151	8	414
16:15	10	30	8	12	95	5	11	45	9	12	135	13	385
16:30	8	21	15	8	79	5	15	43	12	24	152	5	387
16:45	12	27	16	7	61	6	18	44	9	9	187	12	408
17:00	10	22	9	16	73	4	14	40	10	18	171	6	393
17:15	8	29	11	15	82	8	32	69	9	15	158	10	446
17:30	7	20	12	17	75	7	22	69	8	11	168	5	421
17:45	15	28	14	17	66	8	17	49	14	15	151	13	407
Total Volume:	81	210	94	109	615	51	150	410	80	116	1273	72	3261
Approach %	21%	55%	24%	14%	79%	7%	23%	64%	13%	8%	87%	5%	
Peak Hr Begin:	16:45												
PHV	37	98	48	55	291	25	86	222	36	53	684	33	1668
PHF	0.832			0.883			0.782			0.925			0.935

Pedestrian/Bicycle Count Report

Location ID: 6
North/South: Gage Avenue
East/West: 1st Street

Date: 04/24/19
City: Los Angeles, CA

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
7:00	2	0	4	0	10	0	8	0
7:15	21	0	6	0	13	0	3	0
7:30	39	0	17	0	31	0	6	0
7:45	16	1	14	0	46	0	4	0
8:00	13	1	15	0	18	0	3	0
8:15	10	0	3	0	5	0	2	0
8:30	7	0	1	0	3	0	2	0
8:45	13	0	6	0	8	0	4	0

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
16:00	9	0	2	0	7	1	2	0
16:15	4	1	1	0	3	1	3	0
16:30	9	1	5	0	10	0	7	0
16:45	10	0	5	1	18	3	2	0
17:00	5	2	4	0	8	1	0	0
17:15	19	0	2	0	6	0	6	0
17:30	18	0	5	1	3	3	8	0
17:45	0	1	3	1	7	1	2	1

Turning Movement Count Report AM

Location ID: 7
North/South: Gage Avenue/SR 60 EB On-Ramp
East/West: 3rd Street

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	9	39	21	32	120	12	0	0	0	46	34	17	330
7:15	10	48	24	40	154	24	0	0	0	57	50	12	419
7:30	9	47	38	48	166	12	0	0	0	68	72	23	483
7:45	8	51	27	48	164	21	0	0	0	42	55	18	434
8:00	8	39	19	50	155	12	0	0	0	38	42	11	374
8:15	7	34	20	42	123	26	0	0	0	22	34	13	321
8:30	9	25	15	36	95	27	0	0	0	24	36	11	278
8:45	4	28	18	32	124	23	0	0	0	36	43	6	314
Total Volume:	64	311	182	328	1101	157	0	0	0	333	366	111	2953
Approach %	11%	56%	33%	21%	69%	10%	0%	0%	0%	41%	45%	14%	
Peak Hr Begin:	7:15												
PHV	35	185	108	186	639	69	0	0	0	205	219	64	1710
PHF	0.872			0.959			0.000			0.748			0.885

Turning Movement Count Report PM

Location ID: 7
North/South: Gage Avenue/SR 60 EB On-Ramp
East/West: 3rd Street

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
16:00	7	8	26	50	93	9	0	0	0	17	87	25	322
16:15	10	15	21	52	83	14	0	0	0	19	114	15	343
16:30	6	18	27	56	91	8	0	0	0	21	94	11	332
16:45	4	13	26	52	88	9	0	0	0	21	118	18	349
17:00	6	10	31	60	60	5	0	0	0	14	120	15	321
17:15	5	15	32	71	104	11	0	0	0	18	100	31	387
17:30	7	8	21	74	105	14	0	0	0	18	115	22	384
17:45	4	12	29	45	87	18	0	0	0	17	76	22	310
Total Volume:	49	99	213	460	711	88	0	0	0	145	824	159	2748
Approach %	14%	27%	59%	37%	56%	7%	0%	0%	0%	13%	73%	14%	
Peak Hr Begin:	16:45												
PHV	22	46	110	257	357	39	0	0	0	71	453	86	1441
PHF	0.856			0.846			0.000			0.971			0.931

Pedestrian/Bicycle Count Report

Location ID: 7
North/South: Gage Avenue/SR 60 EB On-Ramp
East/West: 3rd Street

Date: 04/24/19
City: Los Angeles, CA

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
7:00	3	0	3	0	0	0	1	0
7:15	4	0	1	0	1	0	8	0
7:30	4	0	5	0	0	0	6	0
7:45	13	0	5	0	0	0	5	0
8:00	8	0	3	0	0	0	4	0
8:15	2	0	5	0	0	0	1	0
8:30	2	0	2	0	1	0	2	0
8:45	1	0	1	0	0	0	1	0

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
16:00	3	0	5	1	1	1	0	1
16:15	4	0	11	0	0	0	1	0
16:30	4	0	3	0	0	0	6	0
16:45	4	0	1	1	0	0	2	0
17:00	4	0	2	0	2	0	0	0
17:15	2	0	1	0	0	0	2	0
17:30	1	0	3	0	0	0	2	0
17:45	2	0	4	0	0	0	1	0

Turning Movement Count Report AM

Location ID: 8
North/South: SR 60 WB Ramps
East/West: 3rd Street

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	84	0	21	27	87	0	0	0	0	0	51	6	276
7:15	110	0	24	34	98	0	0	0	0	0	67	8	341
7:30	121	0	28	52	111	0	0	0	0	0	80	10	402
7:45	129	0	53	48	107	0	0	0	0	0	85	6	428
8:00	152	0	68	42	86	0	0	0	0	0	57	10	415
8:15	107	0	28	29	99	0	0	0	0	0	40	7	310
8:30	75	0	18	25	69	0	0	0	0	0	49	16	252
8:45	96	0	26	18	76	0	0	0	0	0	51	8	275
Total Volume:	874	0	266	275	733	0	0	0	0	0	480	71	2699
Approach %	77%	0%	23%	27%	73%	0%	0%	0%	0%	0%	87%	13%	
Peak Hr Begin:	7:15												
PHV	512	0	173	176	402	0	0	0	0	0	289	34	1586
PHF	0.778			0.887			0.000			0.887			0.926

Turning Movement Count Report PM

Location ID: 8
North/South: SR 60 WB Ramps
East/West: 3rd Street

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
16:00	82	0	28	69	88	0	0	0	0	0	107	13	387
16:15	82	0	21	44	86	0	0	0	0	0	129	14	376
16:30	84	0	39	39	82	0	0	0	0	0	112	14	370
16:45	88	0	39	36	70	0	0	0	0	0	118	9	360
17:00	72	0	40	46	41	0	0	0	0	0	104	12	315
17:15	118	0	55	47	81	0	0	0	0	0	138	12	451
17:30	119	0	41	34	85	0	0	0	0	0	117	12	408
17:45	92	0	38	24	86	0	0	0	0	0	115	10	365
Total Volume:	737	0	301	339	619	0	0	0	0	0	940	96	3032
Approach %	71%	0%	29%	35%	65%	0%	0%	0%	0%	0%	91%	9%	
Peak Hr Begin:	17:00												
PHV	401	0	174	151	293	0	0	0	0	0	474	46	1539
PHF	0.831			0.867			0.000			0.867			0.853

Pedestrian/Bicycle Count Report

Location ID: 8
North/South: SR 60 WB Ramps
East/West: 3rd Street

Date: 04/24/19
City: Los Angeles, CA

Leg:	North		East		South		West	
Class:	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle
7:00	0	0	0	0	0	0	0	0
7:15	2	0	0	0	0	0	0	0
7:30	1	0	0	0	0	0	0	0
7:45	0	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0	0
8:15	0	0	0	0	0	0	0	0
8:30	0	0	0	0	0	0	0	0
8:45	1	0	0	0	0	0	0	0

Leg:	North		East		South		West	
Class:	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle	Peds	Bicycle
16:00	0	0	0	0	0	0	0	0
16:15	1	1	0	0	0	0	0	0
16:30	1	0	0	0	0	0	0	0
16:45	0	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0	0
17:15	0	0	0	0	0	0	0	0
17:30	0	1	0	0	0	0	0	0
17:45	1	0	0	0	0	0	0	0

Turning Movement Count Report AM

Location ID: 9
North/South: I-710 SB Off-Ramp/Humphreys Avenue
East/West: Floral Drive

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
7:00	15	13	39	0	112	3	19	0	0	3	107	0	311
7:15	11	13	47	0	127	7	20	0	3	9	123	0	360
7:30	23	23	45	0	117	12	40	0	6	15	161	0	442
7:45	8	16	27	0	127	8	37	0	4	9	132	0	368
8:00	10	16	35	0	125	9	24	0	4	6	106	0	335
8:15	10	11	39	0	114	1	15	0	3	7	122	0	322
8:30	14	9	54	0	93	13	13	0	1	6	102	0	305
8:45	30	16	43	0	80	3	15	0	6	4	138	0	335
Total Volume:	121	117	329	0	895	56	183	0	27	59	991	0	2778
Approach %	21%	21%	58%	0%	94%	6%	87%	0%	13%	6%	94%	0%	
Peak Hr Begin:	7:15												
PHV	52	68	154	0	496	36	121	0	17	39	522	0	1505
PHF	0.753			0.985			0.750			0.797			0.851

Turning Movement Count Report PM

Location ID: 9
North/South: I-710 SB Off-Ramp/Humphreys Avenue
East/West: Floral Drive

Date: 04/24/19
City: Los Angeles, CA

	Southbound			*Westbound*			*Northbound*			*Eastbound*			
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	Totals:
Movements:	R	T	L	R	T	L	R	T	L	R	T	L	
16:00	27	22	48	0	86	4	28	0	0	5	119	0	339
16:15	25	14	29	0	117	4	13	0	2	4	120	0	328
16:30	18	12	34	0	104	2	28	0	3	5	140	0	346
16:45	11	13	41	0	112	7	20	0	4	4	133	0	345
17:00	16	16	33	0	123	11	22	0	7	5	121	0	354
17:15	16	12	38	0	110	3	13	0	6	3	113	0	314
17:30	15	16	45	0	99	10	16	0	6	2	123	0	332
17:45	18	18	37	0	113	5	14	0	7	4	118	0	334
Total Volume:	146	123	305	0	864	46	154	0	35	32	987	0	2692
Approach %	25%	21%	53%	0%	95%	5%	81%	0%	19%	3%	97%	0%	
Peak Hr Begin:	16:15												
PHV	70	55	137	0	456	24	83	0	16	18	514	0	1373
PHF	0.963			0.896			0.798			0.917			0.970

Pedestrian/Bicycle Count Report

Location ID: 9
North/South: I-710 SB Off-Ramp/Humphreys Avenue
East/West: Floral Drive
Date: 04/24/19
City: Los Angeles, CA

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
7:00	3	0	0	0	1	0	2	0
7:15	6	0	0	0	2	0	0	0
7:30	5	1	0	0	1	0	1	0
7:45	4	0	0	0	2	0	0	0
8:00	2	0	0	0	1	0	0	0
8:15	1	0	0	0	2	0	0	0
8:30	0	0	0	0	1	0	0	0
8:45	5	0	0	0	0	0	0	0

Leg:	*North*		*East*		*South*		*West*	
Class:	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*	*Peds*	*Bicycle*
16:00	2	0	0	0	2	0	0	0
16:15	1	0	0	0	0	0	1	0
16:30	2	0	0	0	2	0	5	0
16:45	0	0	0	0	0	1	0	0
17:00	1	0	0	0	0	0	4	0
17:15	3	0	0	0	0	0	3	0
17:30	0	0	0	0	0	0	3	0
17:45	0	0	0	0	0	0	0	0

Attachment B

Level of Service Worksheets

with School in Session

EXISTING CONDITIONS (DURING SCHOOL)

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

1. GAGE AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	70	0.000	N/S 1:	0.248 *
Southbound	Through	0.34	1,600	120	0.173	N/S 2:	0.236
	Left	0.33	1,600	86	0.054 *	E/W 1:	0.433
	Right	0.50	0	55	0.000	E/W 2:	0.558 *
Westbound	Through	0.50	1,600	786	0.526 *		
	Left	1.00	1,600	35	0.022	V/C Ratio:	0.806
	Right	0.33	0	27	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	183	0.194 *	ITS:	-0.100
	Left	0.33	1,600	101	0.063		
	Right	0.50	0	50	0.000	ICU:	0.806
Eastbound	Through	0.50	1,600	608	0.411		
	Left	1.00	1,600	51	0.032 *	LOS:	D

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	43	0.000	N/S 1:	0.226 *
Southbound	Through	0.34	1,600	101	0.140	N/S 2:	0.164
	Left	0.33	1,600	80	0.050 *	E/W 1:	0.536 *
	Right	0.50	0	77	0.000	E/W 2:	0.412
Westbound	Through	0.50	1,600	501	0.361		
	Left	1.00	1,600	23	0.014 *	V/C Ratio:	0.762
	Right	0.33	0	37	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	206	0.176 *	ITS:	-0.100
	Left	0.33	1,600	39	0.024		
	Right	0.50	0	39	0.000	ICU:	0.762
Eastbound	Through	0.50	1,600	796	0.522 *		
	Left	1.00	1,600	81	0.051	LOS:	C

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

2. RECORD AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	42	0.000	N/S 1:	0.151 *
Southbound	Through	0.34	1,600	82	0.115	N/S 2:	0.137
	Left	0.33	1,600	60	0.038 *	E/W 1:	0.247
	Right	0.50	0	77	0.000	E/W 2:	0.307 *
Westbound	Through	1.00	3,200	822	0.292 *		
	Left	0.50	1,600	35	0.022	V/C Ratio:	0.458
	Right	0.33	0	61	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	85	0.113 *	ITS:	-0.100
	Left	0.33	1,600	35	0.022		
	Right	0.50	0	79	0.000	ICU:	0.458
Eastbound	Through	1.00	3,200	618	0.225		
	Left	0.50	1,600	24	0.015 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	26	0.000	N/S 1:	0.059 *
Southbound	Through	0.34	1,600	14	0.038	N/S 2:	0.049
	Left	0.33	1,600	21	0.013 *	E/W 1:	0.271 *
	Right	0.50	0	38	0.000	E/W 2:	0.247
Westbound	Through	1.00	3,200	653	0.222		
	Left	0.50	1,600	19	0.012 *	V/C Ratio:	0.330
	Right	0.33	0	34	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	21	0.046 *	ITS:	-0.100
	Left	0.33	1,600	18	0.011		
	Right	0.50	0	31	0.000	ICU:	0.330
Eastbound	Through	1.00	3,200	759	0.259 *		
	Left	0.50	1,600	40	0.025	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

3. EASTERN AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	118	0.000	N/S 1:	0.368 *
Southbound	Through	1.50	3,200	467	0.183	N/S 2:	0.254
	Left	2.00	2,880	248	0.086 *	E/W 1:	0.255
	Right	0.50	0	319	0.000	E/W 2:	0.351 *
Westbound	Through	1.50	3,200	684	0.313 *		
	Left	1.00	1,600	42	0.026	V/C Ratio:	0.719
	Right	0.50	0	35	0.000	Loss Time:	0.100
Northbound	Through	1.50	3,200	868	0.282 *	ITS:	-0.100
	Left	2.00	2,880	204	0.071		
	Right	0.50	0	119	0.000	ICU:	0.719
Eastbound	Through	1.50	3,200	613	0.229		
	Left	1.00	1,600	61	0.038 *	LOS:	C

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	79	0.000	N/S 1:	0.244
Southbound	Through	1.50	3,200	627	0.221 *	N/S 2:	0.272 *
	Left	2.00	2,880	183	0.064	E/W 1:	0.267
	Right	0.50	0	275	0.000	E/W 2:	0.324 *
Westbound	Through	1.50	3,200	580	0.267 *		
	Left	1.00	1,600	46	0.029	V/C Ratio:	0.596
	Right	0.50	0	67	0.000	Loss Time:	0.100
Northbound	Through	1.50	3,200	508	0.180	ITS:	-0.100
	Left	2.00	2,880	146	0.051 *		
	Right	0.50	0	152	0.000	ICU:	0.596
Eastbound	Through	1.50	3,200	608	0.238		
	Left	1.00	1,600	91	0.057 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

4. HUMPHREY AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	50	0.000	N/S 1:	0.269 *
Southbound	Through	0.34	1,600	76	0.178	N/S 2:	0.210
	Left	0.33	1,600	159	0.099 *	E/W 1:	0.323
	Right	0.50	0	182	0.000	E/W 2:	0.379 *
Westbound	Through	1.50	3,200	970	0.360 *		
	Left	1.00	1,600	81	0.051	V/C Ratio:	0.648
	Right	0.33	0	114	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	107	0.170 *	ITS:	-0.100
	Left	0.33	1,600	51	0.032		
	Right	0.50	0	50	0.000	ICU:	0.648
Eastbound	Through	1.50	3,200	820	0.272		
	Left	1.00	1,600	31	0.019 *	LOS:	B

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	34	0.000	N/S 1:	0.107 *
Southbound	Through	0.34	1,600	31	0.082	N/S 2:	0.096
	Left	0.33	1,600	66	0.041 *	E/W 1:	0.276
	Right	0.50	0	86	0.000	E/W 2:	0.314 *
Westbound	Through	1.50	3,200	878	0.301 *		
	Left	1.00	1,600	33	0.021	V/C Ratio:	0.421
	Right	0.33	0	45	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	38	0.066 *	ITS:	-0.100
	Left	0.33	1,600	22	0.014		
	Right	0.50	0	24	0.000	ICU:	0.421
Eastbound	Through	1.50	3,200	792	0.255		
	Left	1.00	1,600	21	0.013 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

5. FORD BOULEVARD & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	369	0.000	N/S 1:	0.298
Southbound	Through	0.50	1,600	90	0.287 *	N/S 2:	0.573 *
	Left	1.00	1,600	119	0.074	E/W 1:	0.202
	Right	0.50	0	23	0.000	E/W 2:	0.259 *
Westbound	Through	1.00	3,200	735	0.240 *		
	Left	0.50	1,600	10	0.006	V/C Ratio:	0.832
	Right	0.50	0	120	0.000	Loss Time:	0.100
Northbound	Through	0.50	1,600	239	0.224	ITS:	-0.100
	Left	1.00	1,600	457	0.286 *		
	Right	0.50	0	125	0.000	ICU:	0.832
Eastbound	Through	1.00	3,200	470	0.196		
	Left	0.50	1,600	31	0.019 *	LOS:	D

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	191	0.000	N/S 1:	0.395
Southbound	Through	0.50	1,600	147	0.211 *	N/S 2:	0.482 *
	Left	1.00	1,600	193	0.121	E/W 1:	0.251 *
	Right	0.50	0	37	0.000	E/W 2:	0.197
Westbound	Through	1.00	3,200	524	0.179		
	Left	0.50	1,600	12	0.008 *	V/C Ratio:	0.733
	Right	0.50	0	188	0.000	Loss Time:	0.100
Northbound	Through	0.50	1,600	251	0.274	ITS:	-0.100
	Left	1.00	1,600	434	0.271 *		
	Right	0.50	0	80	0.000	ICU:	0.733
Eastbound	Through	1.00	3,200	668	0.243 *		
	Left	0.50	1,600	28	0.018	LOS:	C

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

6. GAGE AVENUE & 1ST STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	56	0.000	N/S 1:	0.203 *
Southbound	Through	0.34	1,600	158	0.163	N/S 2:	0.196
	Left	0.33	1,600	46	0.029 *	E/W 1:	0.195
	Right	0.50	0	98	0.000	E/W 2:	0.276 *
Westbound	Through	1.00	3,200	696	0.260 *		
	Left	0.50	1,600	38	0.024	V/C Ratio:	0.479
	Right	0.33	0	53	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	173	0.174 *	ITS:	-0.100
	Left	0.33	1,600	52	0.033		
	Right	0.50	0	126	0.000	ICU:	0.479
Eastbound	Through	1.00	3,200	394	0.171		
	Left	0.50	1,600	26	0.016 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	37	0.000	N/S 1:	0.245 *
Southbound	Through	0.34	1,600	98	0.114	N/S 2:	0.137
	Left	0.33	1,600	48	0.030 *	E/W 1:	0.257 *
	Right	0.50	0	55	0.000	E/W 2:	0.137
Westbound	Through	1.00	3,200	291	0.116		
	Left	0.50	1,600	25	0.016 *	V/C Ratio:	0.502
	Right	0.33	0	86	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	222	0.215 *	ITS:	-0.100
	Left	0.33	1,600	36	0.023		
	Right	0.50	0	53	0.000	ICU:	0.502
Eastbound	Through	1.00	3,200	684	0.241 *		
	Left	0.50	1,600	33	0.021	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

7. GAGE AVENUE/SR 60 EASTBOUND ON-RAMP & 3RD STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	Y
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	35	0.000	N/S 1:	0.205 *
Southbound	Through	0.34	1,600	185	0.205 *	N/S 2:	0.000
	Left	0.33	1,600	108	0.068	E/W 1:	0.308
	Right	0.50	0	186	0.000	E/W 2:	0.556 *
Westbound	Through	0.50	1,600	639	0.516 *		
	Left	1.00	1,600	69	0.043	V/C Ratio:	0.761
	Right	0.00	0	0	0.000 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000		
	Right	0.50	0	205	0.000	ICU:	0.761
Eastbound	Through	0.50	1,600	219	0.265		
	Left	1.00	1,600	64	0.040 *	LOS:	C

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	22	0.000	N/S 1:	0.111 *
Southbound	Through	0.34	1,600	46	0.111 *	N/S 2:	0.000
	Left	0.33	1,600	110	0.069	E/W 1:	0.352
	Right	0.50	0	257	0.000	E/W 2:	0.438 *
Westbound	Through	0.50	1,600	357	0.384 *		
	Left	1.00	1,600	39	0.024	V/C Ratio:	0.549
	Right	0.00	0	0	0.000 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000		
	Right	0.50	0	71	0.000	ICU:	0.549
Eastbound	Through	0.50	1,600	453	0.328		
	Left	1.00	1,600	86	0.054 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

8. SR 60 WESTBOUND RAMPS & 3RD STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	1.00	1,600	512	0.309 *	N/S 1:	0.108
Southbound	Through	0.00	0	0	0.000	N/S 2:	0.309 *
	Left	1.00	1,600	173	0.108	E/W 1:	0.181
	Right	1.00	1,600	176	0.056	E/W 2:	0.272 *
Westbound	Through	1.00	1,600	402	0.251 *		
	Left	0.00	0	0	0.000	V/C Ratio:	0.581
	Right	0.00	0	0	0.000	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000 *		
	Right	0.00	0	0	0.000	ICU:	0.581
Eastbound	Through	1.00	1,600	289	0.181		
	Left	1.00	1,600	34	0.021 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	1.00	1,600	401	0.236 *	N/S 1:	0.109
Southbound	Through	0.00	0	0	0.000	N/S 2:	0.236 *
	Left	1.00	1,600	174	0.109	E/W 1:	0.296 *
	Right	1.00	1,600	151	0.040	E/W 2:	0.212
Westbound	Through	1.00	1,600	293	0.183		
	Left	0.00	0	0	0.000 *	V/C Ratio:	0.532
	Right	0.00	0	0	0.000	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000 *		
	Right	0.00	0	0	0.000	ICU:	0.532
Eastbound	Through	1.00	1,600	474	0.296 *		
	Left	1.00	1,600	46	0.029	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

9. I-710 SOUTHBOUND OFF-RAMP/HUMPHREY AVENUE & FLORAL DRIVE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	52	0.000	N/S 1:	0.171 *
Southbound	Through	0.50	1,600	68	0.075	N/S 2:	0.161
	Left	1.00	1,600	154	0.096 *	E/W 1:	0.374 *
	Right	0.00	0	0	0.000	E/W 2:	0.333
Westbound	Through	0.50	1,600	496	0.333		
	Left	0.50	1,600	36	0.023 *	V/C Ratio:	0.545
	Right	0.50	1,403	121	0.075 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.50	197	17	0.086		
	Right	0.50	0	39	0.000	ICU:	0.545
Eastbound	Through	0.50	1,600	522	0.351 *		
	Left	0.00	0	0	0.000	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	70	0.000	N/S 1:	0.140 *
Southbound	Through	0.50	1,600	55	0.078 *	N/S 2:	0.140
	Left	1.00	1,600	137	0.086	E/W 1:	0.348 *
	Right	0.00	0	0	0.000	E/W 2:	0.300
Westbound	Through	0.50	1,600	456	0.300		
	Left	0.50	1,600	24	0.015 *	V/C Ratio:	0.488
	Right	0.50	1,341	83	0.054	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.50	259	16	0.062 *		
	Right	0.50	0	18	0.000	ICU:	0.488
Eastbound	Through	0.50	1,600	514	0.333 *		
	Left	0.00	0	0	0.000	LOS:	A

* Critical Movement

EXISTING WITH CONSTRUCTION (DURING SCHOOL) SR-60 HAUL ROUTE

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

1. GAGE AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	70	0.000	N/S 1:	0.262 *
Southbound	Through	0.34	1,600	120	0.174	N/S 2:	0.237
	Left	0.33	1,600	88	0.055 *	E/W 1:	0.442
	Right	0.50	0	55	0.000	E/W 2:	0.558 *
Westbound	Through	0.50	1,600	786	0.526 *		
	Left	1.00	1,600	44	0.028	V/C Ratio:	0.820
	Right	0.33	0	47	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	183	0.207 *	ITS:	-0.100
	Left	0.33	1,600	101	0.063		
	Right	0.50	0	50	0.000	ICU:	0.820
Eastbound	Through	0.50	1,600	613	0.414		
	Left	1.00	1,600	51	0.032 *	LOS:	D

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	43	0.000	N/S 1:	0.232 *
Southbound	Through	0.34	1,600	101	0.140	N/S 2:	0.164
	Left	0.33	1,600	80	0.050 *	E/W 1:	0.546 *
	Right	0.50	0	79	0.000	E/W 2:	0.417
Westbound	Through	0.50	1,600	506	0.366		
	Left	1.00	1,600	39	0.024 *	V/C Ratio:	0.778
	Right	0.33	0	46	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	206	0.182 *	ITS:	-0.100
	Left	0.33	1,600	39	0.024		
	Right	0.50	0	39	0.000	ICU:	0.778
Eastbound	Through	0.50	1,600	796	0.522 *		
	Left	1.00	1,600	81	0.051	LOS:	C

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

2. RECORD AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	42	0.000	N/S 1:	0.157 *
Southbound	Through	0.34	1,600	82	0.115	N/S 2:	0.143
	Left	0.33	1,600	60	0.038 *	E/W 1:	0.270
	Right	0.50	0	77	0.000	E/W 2:	0.314 *
Westbound	Through	1.00	3,200	822	0.299 *		
	Left	0.50	1,600	58	0.036	V/C Ratio:	0.471
	Right	0.33	0	62	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	85	0.119 *	ITS:	-0.100
	Left	0.33	1,600	44	0.028		
	Right	0.50	0	106	0.000	ICU:	0.471
Eastbound	Through	1.00	3,200	618	0.234		
	Left	0.50	1,600	24	0.015 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	26	0.000	N/S 1:	0.087 *
Southbound	Through	0.34	1,600	14	0.038	N/S 2:	0.064
	Left	0.33	1,600	21	0.013 *	E/W 1:	0.275 *
	Right	0.50	0	38	0.000	E/W 2:	0.247
Westbound	Through	1.00	3,200	653	0.222		
	Left	0.50	1,600	20	0.013 *	V/C Ratio:	0.362
	Right	0.33	0	57	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	21	0.074 *	ITS:	-0.100
	Left	0.33	1,600	41	0.026		
	Right	0.50	0	40	0.000	ICU:	0.362
Eastbound	Through	1.00	3,200	759	0.262 *		
	Left	0.50	1,600	40	0.025	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

3. EASTERN AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	123	0.000	N/S 1:	0.368 *
Southbound	Through	1.50	3,200	467	0.184	N/S 2:	0.257
	Left	2.00	2,880	248	0.086 *	E/W 1:	0.255
	Right	0.50	0	319	0.000	E/W 2:	0.355 *
Westbound	Through	1.50	3,200	695	0.317 *		
	Left	1.00	1,600	42	0.026	V/C Ratio:	0.723
	Right	0.50	0	35	0.000	Loss Time:	0.100
Northbound	Through	1.50	3,200	868	0.282 *	ITS:	-0.100
	Left	2.00	2,880	211	0.073		
	Right	0.50	0	119	0.000	ICU:	0.723
Eastbound	Through	1.50	3,200	613	0.229		
	Left	1.00	1,600	61	0.038 *	LOS:	C

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	79	0.000	N/S 1:	0.244
Southbound	Through	1.50	3,200	627	0.221 *	N/S 2:	0.272 *
	Left	2.00	2,880	183	0.064	E/W 1:	0.272
	Right	0.50	0	275	0.000	E/W 2:	0.327 *
Westbound	Through	1.50	3,200	580	0.267 *		
	Left	1.00	1,600	46	0.029	V/C Ratio:	0.599
	Right	0.50	0	67	0.000	Loss Time:	0.100
Northbound	Through	1.50	3,200	508	0.180	ITS:	-0.100
	Left	2.00	2,880	146	0.051 *		
	Right	0.50	0	159	0.000	ICU:	0.599
Eastbound	Through	1.50	3,200	619	0.243		
	Left	1.00	1,600	96	0.060 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

4. HUMPHREY AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	52	0.000	N/S 1:	0.269 *
Southbound	Through	0.34	1,600	76	0.179	N/S 2:	0.211
	Left	0.33	1,600	159	0.099 *	E/W 1:	0.323
	Right	0.50	0	182	0.000	E/W 2:	0.382 *
Westbound	Through	1.50	3,200	979	0.363 *		
	Left	1.00	1,600	81	0.051	V/C Ratio:	0.651
	Right	0.33	0	114	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	107	0.170 *	ITS:	-0.100
	Left	0.33	1,600	51	0.032		
	Right	0.50	0	50	0.000	ICU:	0.651
Eastbound	Through	1.50	3,200	820	0.272		
	Left	1.00	1,600	31	0.019 *	LOS:	B

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	34	0.000	N/S 1:	0.107 *
Southbound	Through	0.34	1,600	31	0.082	N/S 2:	0.096
	Left	0.33	1,600	66	0.041 *	E/W 1:	0.279
	Right	0.50	0	86	0.000	E/W 2:	0.314 *
Westbound	Through	1.50	3,200	878	0.301 *		
	Left	1.00	1,600	33	0.021	V/C Ratio:	0.421
	Right	0.33	0	45	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	38	0.066 *	ITS:	-0.100
	Left	0.33	1,600	22	0.014		
	Right	0.50	0	24	0.000	ICU:	0.421
Eastbound	Through	1.50	3,200	803	0.258		
	Left	1.00	1,600	21	0.013 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

5. FORD BOULEVARD & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C		ICU Analysis	
	Right	0.50	0	374	0.000		N/S 1:	0.298
Southbound	Through	0.50	1,600	90	0.290	*	N/S 2:	0.576 *
	Left	1.00	1,600	119	0.074		E/W 1:	0.202
	Right	0.50	0	23	0.000		E/W 2:	0.261 *
Westbound	Through	1.00	3,200	740	0.242	*		
	Left	0.50	1,600	10	0.006		V/C Ratio:	0.837
	Right	0.50	0	120	0.000		Loss Time:	0.100
Northbound	Through	0.50	1,600	239	0.224		ITS:	-0.100
	Left	1.00	1,600	457	0.286	*		
	Right	0.50	0	125	0.000		ICU:	0.837
Eastbound	Through	1.00	3,200	470	0.196			
	Left	0.50	1,600	31	0.019	*	LOS:	D

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C		ICU Analysis	
	Right	0.50	0	191	0.000		N/S 1:	0.395
Southbound	Through	0.50	1,600	147	0.211	*	N/S 2:	0.482 *
	Left	1.00	1,600	193	0.121		E/W 1:	0.253 *
	Right	0.50	0	37	0.000		E/W 2:	0.198
Westbound	Through	1.00	3,200	524	0.179			
	Left	0.50	1,600	12	0.008	*	V/C Ratio:	0.735
	Right	0.50	0	188	0.000		Loss Time:	0.100
Northbound	Through	0.50	1,600	251	0.274		ITS:	-0.100
	Left	1.00	1,600	434	0.271	*		
	Right	0.50	0	80	0.000		ICU:	0.735
Eastbound	Through	1.00	3,200	673	0.245	*		
	Left	0.50	1,600	30	0.019		LOS:	C

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

6. GAGE AVENUE & 1ST STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	56	0.000	N/S 1:	0.217 *
Southbound	Through	0.34	1,600	167	0.168	N/S 2:	0.201
	Left	0.33	1,600	46	0.029 *	E/W 1:	0.195
	Right	0.50	0	98	0.000	E/W 2:	0.278 *
Westbound	Through	1.00	3,200	696	0.260 *		
	Left	0.50	1,600	38	0.024	V/C Ratio:	0.495
	Right	0.33	0	53	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	196	0.188 *	ITS:	-0.100
	Left	0.33	1,600	52	0.033		
	Right	0.50	0	126	0.000	ICU:	0.495
Eastbound	Through	1.00	3,200	394	0.171		
	Left	0.50	1,600	28	0.018 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	39	0.000	N/S 1:	0.251 *
Southbound	Through	0.34	1,600	121	0.130	N/S 2:	0.153
	Left	0.33	1,600	48	0.030 *	E/W 1:	0.257 *
	Right	0.50	0	55	0.000	E/W 2:	0.137
Westbound	Through	1.00	3,200	291	0.116		
	Left	0.50	1,600	25	0.016 *	V/C Ratio:	0.508
	Right	0.33	0	86	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	231	0.221 *	ITS:	-0.100
	Left	0.33	1,600	36	0.023		
	Right	0.50	0	53	0.000	ICU:	0.508
Eastbound	Through	1.00	3,200	684	0.241 *		
	Left	0.50	1,600	33	0.021	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

7. GAGE AVENUE/SR 60 EASTBOUND ON-RAMP & 3RD STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	Y
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	35	0.000	N/S 1:	0.211 *
Southbound	Through	0.34	1,600	194	0.211 *	N/S 2:	0.000
	Left	0.33	1,600	108	0.068	E/W 1:	0.308
	Right	0.50	0	204	0.000	E/W 2:	0.570 *
Westbound	Through	0.50	1,600	639	0.527 *		
	Left	1.00	1,600	69	0.043	V/C Ratio:	0.781
	Right	0.00	0	0	0.000 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000		
	Right	0.50	0	205	0.000	ICU:	0.781
Eastbound	Through	0.50	1,600	219	0.265		
	Left	1.00	1,600	69	0.043 *	LOS:	C

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	27	0.000	N/S 1:	0.126 *
Southbound	Through	0.34	1,600	60	0.126 *	N/S 2:	0.000
	Left	0.33	1,600	115	0.072	E/W 1:	0.352
	Right	0.50	0	266	0.000	E/W 2:	0.443 *
Westbound	Through	0.50	1,600	357	0.389 *		
	Left	1.00	1,600	39	0.024	V/C Ratio:	0.569
	Right	0.00	0	0	0.000 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000		
	Right	0.50	0	71	0.000	ICU:	0.569
Eastbound	Through	0.50	1,600	453	0.328		
	Left	1.00	1,600	86	0.054 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

8. SR 60 WESTBOUND RAMPS & 3RD STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	1.00	1,600	526	0.318 *	N/S 1:	0.108
Southbound	Through	0.00	0	0	0.000	N/S 2:	0.318 *
	Left	1.00	1,600	173	0.108	E/W 1:	0.181
	Right	1.00	1,600	176	0.056	E/W 2:	0.275 *
Westbound	Through	1.00	1,600	407	0.254 *		
	Left	0.00	0	0	0.000	V/C Ratio:	0.593
	Right	0.00	0	0	0.000	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000 *		
	Right	0.00	0	0	0.000	ICU:	0.593
Eastbound	Through	1.00	1,600	289	0.181		
	Left	1.00	1,600	34	0.021 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	1.00	1,600	410	0.240 *	N/S 1:	0.109
Southbound	Through	0.00	0	0	0.000	N/S 2:	0.240 *
	Left	1.00	1,600	174	0.109	E/W 1:	0.296 *
	Right	1.00	1,600	151	0.040	E/W 2:	0.215
Westbound	Through	1.00	1,600	293	0.183		
	Left	0.00	0	0	0.000 *	V/C Ratio:	0.536
	Right	0.00	0	0	0.000	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000 *		
	Right	0.00	0	0	0.000	ICU:	0.536
Eastbound	Through	1.00	1,600	474	0.296 *		
	Left	1.00	1,600	51	0.032	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

9. I-710 SOUTHBOUND OFF-RAMP/HUMPHREY AVENUE & FLORAL DRIVE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	52	0.000	N/S 1:	0.171 *
Southbound	Through	0.50	1,600	70	0.076	N/S 2:	0.162
	Left	1.00	1,600	154	0.096 *	E/W 1:	0.374 *
	Right	0.00	0	0	0.000	E/W 2:	0.333
Westbound	Through	0.50	1,600	496	0.333		
	Left	0.50	1,600	36	0.023 *	V/C Ratio:	0.545
	Right	0.50	1,403	121	0.075 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.50	197	17	0.086		
	Right	0.50	0	39	0.000	ICU:	0.545
Eastbound	Through	0.50	1,600	522	0.351 *		
	Left	0.00	0	0	0.000	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	70	0.000	N/S 1:	0.140 *
Southbound	Through	0.50	1,600	55	0.078 *	N/S 2:	0.140
	Left	1.00	1,600	137	0.086	E/W 1:	0.348 *
	Right	0.00	0	0	0.000	E/W 2:	0.300
Westbound	Through	0.50	1,600	456	0.300		
	Left	0.50	1,600	24	0.015 *	V/C Ratio:	0.488
	Right	0.50	1,341	83	0.054	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.50	259	16	0.062 *		
	Right	0.50	0	18	0.000	ICU:	0.488
Eastbound	Through	0.50	1,600	514	0.333 *		
	Left	0.00	0	0	0.000	LOS:	A

* Critical Movement

EXISTING CONSTRUCTION (DURING SCHOOL) I-710 HAUL ROUTE

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

1. GAGE AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	70	0.000	N/S 1:	0.256 *
Southbound	Through	0.34	1,600	120	0.174	N/S 2:	0.237
	Left	0.33	1,600	88	0.055 *	E/W 1:	0.436
	Right	0.50	0	55	0.000	E/W 2:	0.558 *
Westbound	Through	0.50	1,600	786	0.526 *		
	Left	1.00	1,600	35	0.022	V/C Ratio:	0.814
	Right	0.33	0	38	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	183	0.201 *	ITS:	-0.100
	Left	0.33	1,600	101	0.063		
	Right	0.50	0	50	0.000	ICU:	0.814
Eastbound	Through	0.50	1,600	613	0.414		
	Left	1.00	1,600	51	0.032 *	LOS:	D

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	43	0.000	N/S 1:	0.226 *
Southbound	Through	0.34	1,600	101	0.140	N/S 2:	0.164
	Left	0.33	1,600	80	0.050 *	E/W 1:	0.541 *
	Right	0.50	0	79	0.000	E/W 2:	0.417
Westbound	Through	0.50	1,600	506	0.366		
	Left	1.00	1,600	30	0.019 *	V/C Ratio:	0.767
	Right	0.33	0	37	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	206	0.176 *	ITS:	-0.100
	Left	0.33	1,600	39	0.024		
	Right	0.50	0	39	0.000	ICU:	0.767
Eastbound	Through	0.50	1,600	796	0.522 *		
	Left	1.00	1,600	81	0.051	LOS:	C

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

2. RECORD AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	42	0.000	N/S 1:	0.157 *
Southbound	Through	0.34	1,600	82	0.115	N/S 2:	0.137
	Left	0.33	1,600	60	0.038 *	E/W 1:	0.273
	Right	0.50	0	77	0.000	E/W 2:	0.317 *
Westbound	Through	1.00	3,200	822	0.302 *		
	Left	0.50	1,600	67	0.042	V/C Ratio:	0.474
	Right	0.33	0	71	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	85	0.119 *	ITS:	-0.100
	Left	0.33	1,600	35	0.022		
	Right	0.50	0	97	0.000	ICU:	0.474
Eastbound	Through	1.00	3,200	618	0.231		
	Left	0.50	1,600	24	0.015 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	26	0.000	N/S 1:	0.087 *
Southbound	Through	0.34	1,600	14	0.038	N/S 2:	0.058
	Left	0.33	1,600	21	0.013 *	E/W 1:	0.277 *
	Right	0.50	0	38	0.000	E/W 2:	0.250
Westbound	Through	1.00	3,200	653	0.225		
	Left	0.50	1,600	29	0.018 *	V/C Ratio:	0.364
	Right	0.33	0	66	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	21	0.074 *	ITS:	-0.100
	Left	0.33	1,600	32	0.020		
	Right	0.50	0	31	0.000	ICU:	0.364
Eastbound	Through	1.00	3,200	759	0.259 *		
	Left	0.50	1,600	40	0.025	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

3. EASTERN AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	132	0.000	N/S 1:	0.368 *
Southbound	Through	1.50	3,200	467	0.187	N/S 2:	0.260
	Left	2.00	2,880	248	0.086 *	E/W 1:	0.258
	Right	0.50	0	319	0.000	E/W 2:	0.355 *
Westbound	Through	1.50	3,200	695	0.317 *		
	Left	1.00	1,600	42	0.026	V/C Ratio:	0.723
	Right	0.50	0	35	0.000	Loss Time:	0.100
Northbound	Through	1.50	3,200	868	0.282 *	ITS:	-0.100
	Left	2.00	2,880	211	0.073		
	Right	0.50	0	119	0.000	ICU:	0.723
Eastbound	Through	1.50	3,200	622	0.232		
	Left	1.00	1,600	61	0.038 *	LOS:	C

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	88	0.000	N/S 1:	0.244
Southbound	Through	1.50	3,200	627	0.223 *	N/S 2:	0.274 *
	Left	2.00	2,880	183	0.064	E/W 1:	0.275
	Right	0.50	0	275	0.000	E/W 2:	0.327 *
Westbound	Through	1.50	3,200	580	0.267 *		
	Left	1.00	1,600	46	0.029	V/C Ratio:	0.601
	Right	0.50	0	67	0.000	Loss Time:	0.100
Northbound	Through	1.50	3,200	508	0.180	ITS:	-0.100
	Left	2.00	2,880	146	0.051 *		
	Right	0.50	0	159	0.000	ICU:	0.601
Eastbound	Through	1.50	3,200	628	0.246		
	Left	1.00	1,600	96	0.060 *	LOS:	B

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

4. HUMPHREY AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	52	0.000	N/S 1:	0.269 *
Southbound	Through	0.34	1,600	76	0.179	N/S 2:	0.211
	Left	0.33	1,600	159	0.099 *	E/W 1:	0.326
	Right	0.50	0	182	0.000	E/W 2:	0.382 *
Westbound	Through	1.50	3,200	979	0.363 *		
	Left	1.00	1,600	81	0.051	V/C Ratio:	0.651
	Right	0.33	0	114	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	107	0.170 *	ITS:	-0.100
	Left	0.33	1,600	51	0.032		
	Right	0.50	0	50	0.000	ICU:	0.651
Eastbound	Through	1.50	3,200	829	0.275		
	Left	1.00	1,600	31	0.019 *	LOS:	B

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	34	0.000	N/S 1:	0.107 *
Southbound	Through	0.34	1,600	31	0.082	N/S 2:	0.096
	Left	0.33	1,600	66	0.041 *	E/W 1:	0.282
	Right	0.50	0	86	0.000	E/W 2:	0.314 *
Westbound	Through	1.50	3,200	878	0.301 *		
	Left	1.00	1,600	33	0.021	V/C Ratio:	0.421
	Right	0.33	0	45	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	38	0.066 *	ITS:	-0.100
	Left	0.33	1,600	22	0.014		
	Right	0.50	0	24	0.000	ICU:	0.421
Eastbound	Through	1.50	3,200	812	0.261		
	Left	1.00	1,600	21	0.013 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

5. FORD BOULEVARD & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C		ICU Analysis	
	Right	0.50	0	374	0.000		N/S 1:	0.298
Southbound	Through	0.50	1,600	90	0.290	*	N/S 2:	0.576 *
	Left	1.00	1,600	119	0.074		E/W 1:	0.204
	Right	0.50	0	23	0.000		E/W 2:	0.267 *
Westbound	Through	1.00	3,200	740	0.242	*		
	Left	0.50	1,600	10	0.006		V/C Ratio:	0.843
	Right	0.50	0	120	0.000		Loss Time:	0.100
Northbound	Through	0.50	1,600	239	0.224		ITS:	-0.100
	Left	1.00	1,600	457	0.286	*		
	Right	0.50	0	125	0.000		ICU:	0.843
Eastbound	Through	1.00	3,200	470	0.198			
	Left	0.50	1,600	40	0.025	*	LOS:	D

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C		ICU Analysis	
	Right	0.50	0	191	0.000		N/S 1:	0.395
Southbound	Through	0.50	1,600	147	0.211	*	N/S 2:	0.482 *
	Left	1.00	1,600	193	0.121		E/W 1:	0.256 *
	Right	0.50	0	37	0.000		E/W 2:	0.203
Westbound	Through	1.00	3,200	524	0.179			
	Left	0.50	1,600	12	0.008	*	V/C Ratio:	0.738
	Right	0.50	0	188	0.000		Loss Time:	0.100
Northbound	Through	0.50	1,600	251	0.274		ITS:	-0.100
	Left	1.00	1,600	434	0.271	*		
	Right	0.50	0	80	0.000		ICU:	0.738
Eastbound	Through	1.00	3,200	673	0.248	*		
	Left	0.50	1,600	39	0.024		LOS:	C

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

6. GAGE AVENUE & 1ST STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	56	0.000	N/S 1:	0.212 *
Southbound	Through	0.34	1,600	158	0.163	N/S 2:	0.196
	Left	0.33	1,600	46	0.029 *	E/W 1:	0.195
	Right	0.50	0	98	0.000	E/W 2:	0.278 *
Westbound	Through	1.00	3,200	696	0.260 *		
	Left	0.50	1,600	38	0.024	V/C Ratio:	0.490
	Right	0.33	0	53	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	187	0.183 *	ITS:	-0.100
	Left	0.33	1,600	52	0.033		
	Right	0.50	0	126	0.000	ICU:	0.490
Eastbound	Through	1.00	3,200	394	0.171		
	Left	0.50	1,600	28	0.018 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	39	0.000	N/S 1:	0.245 *
Southbound	Through	0.34	1,600	112	0.124	N/S 2:	0.147
	Left	0.33	1,600	48	0.030 *	E/W 1:	0.257 *
	Right	0.50	0	55	0.000	E/W 2:	0.137
Westbound	Through	1.00	3,200	291	0.116		
	Left	0.50	1,600	25	0.016 *	V/C Ratio:	0.502
	Right	0.33	0	86	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	222	0.215 *	ITS:	-0.100
	Left	0.33	1,600	36	0.023		
	Right	0.50	0	53	0.000	ICU:	0.502
Eastbound	Through	1.00	3,200	684	0.241 *		
	Left	0.50	1,600	33	0.021	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

7. GAGE AVENUE/SR 60 EASTBOUND ON-RAMP & 3RD STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	Y
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	35	0.000	N/S 1:	0.205 *
Southbound	Through	0.34	1,600	185	0.205 *	N/S 2:	0.000
	Left	0.33	1,600	108	0.068	E/W 1:	0.308
	Right	0.50	0	195	0.000	E/W 2:	0.564 *
Westbound	Through	0.50	1,600	639	0.521 *		
	Left	1.00	1,600	69	0.043	V/C Ratio:	0.769
	Right	0.00	0	0	0.000 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000		
	Right	0.50	0	205	0.000	ICU:	0.769
Eastbound	Through	0.50	1,600	219	0.265		
	Left	1.00	1,600	69	0.043 *	LOS:	C

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	27	0.000	N/S 1:	0.121 *
Southbound	Through	0.34	1,600	51	0.121 *	N/S 2:	0.000
	Left	0.33	1,600	115	0.072	E/W 1:	0.352
	Right	0.50	0	257	0.000	E/W 2:	0.438 *
Westbound	Through	0.50	1,600	357	0.384 *		
	Left	1.00	1,600	39	0.024	V/C Ratio:	0.559
	Right	0.00	0	0	0.000 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000		
	Right	0.50	0	71	0.000	ICU:	0.559
Eastbound	Through	0.50	1,600	453	0.328		
	Left	1.00	1,600	86	0.054 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

8. SR 60 WESTBOUND RAMPS & 3RD STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	1.00	1,600	517	0.313 *	N/S 1:	0.108
Southbound	Through	0.00	0	0	0.000	N/S 2:	0.313 *
	Left	1.00	1,600	173	0.108	E/W 1:	0.181
	Right	1.00	1,600	176	0.056	E/W 2:	0.275 *
Westbound	Through	1.00	1,600	407	0.254 *		
	Left	0.00	0	0	0.000	V/C Ratio:	0.588
	Right	0.00	0	0	0.000	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000 *		
	Right	0.00	0	0	0.000	ICU:	0.588
Eastbound	Through	1.00	1,600	289	0.181		
	Left	1.00	1,600	34	0.021 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	1.00	1,600	401	0.235 *	N/S 1:	0.109
Southbound	Through	0.00	0	0	0.000	N/S 2:	0.235 *
	Left	1.00	1,600	174	0.109	E/W 1:	0.296 *
	Right	1.00	1,600	151	0.040	E/W 2:	0.215
Westbound	Through	1.00	1,600	293	0.183		
	Left	0.00	0	0	0.000 *	V/C Ratio:	0.531
	Right	0.00	0	0	0.000	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000 *		
	Right	0.00	0	0	0.000	ICU:	0.531
Eastbound	Through	1.00	1,600	474	0.296 *		
	Left	1.00	1,600	51	0.032	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

9. I-710 SOUTHBOUND OFF-RAMP/HUMPHREY AVENUE & FLORAL DRIVE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	61	0.000	N/S 1:	0.171 *
Southbound	Through	0.50	1,600	70	0.082	N/S 2:	0.168
	Left	1.00	1,600	154	0.096 *	E/W 1:	0.374 *
	Right	0.00	0	0	0.000	E/W 2:	0.333
Westbound	Through	0.50	1,600	496	0.333		
	Left	0.50	1,600	36	0.023 *	V/C Ratio:	0.545
	Right	0.50	1,403	121	0.075 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.50	197	17	0.086		
	Right	0.50	0	39	0.000	ICU:	0.545
Eastbound	Through	0.50	1,600	522	0.351 *		
	Left	0.00	0	0	0.000	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	79	0.000	N/S 1:	0.140
Southbound	Through	0.50	1,600	55	0.084 *	N/S 2:	0.146 *
	Left	1.00	1,600	137	0.086	E/W 1:	0.348 *
	Right	0.00	0	0	0.000	E/W 2:	0.300
Westbound	Through	0.50	1,600	456	0.300		
	Left	0.50	1,600	24	0.015 *	V/C Ratio:	0.494
	Right	0.50	1,341	83	0.054	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.50	259	16	0.062 *		
	Right	0.50	0	18	0.000	ICU:	0.494
Eastbound	Through	0.50	1,600	514	0.333 *		
	Left	0.00	0	0	0.000	LOS:	A

* Critical Movement

During Summer Months

EXISTING CONDITIONS (DURING SUMMER)

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

1. GAGE AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	56	0.000	N/S 1:	0.199 *
Southbound	Through	0.34	1,600	96	0.138	N/S 2:	0.189
	Left	0.33	1,600	69	0.043 *	E/W 1:	0.347
	Right	0.50	0	44	0.000	E/W 2:	0.447 *
Westbound	Through	0.50	1,600	629	0.421 *		
	Left	1.00	1,600	28	0.018	V/C Ratio:	0.646
	Right	0.33	0	22	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	146	0.156 *	ITS:	-0.100
	Left	0.33	1,600	81	0.051		
	Right	0.50	0	40	0.000	ICU:	0.646
Eastbound	Through	0.50	1,600	486	0.329		
	Left	1.00	1,600	41	0.026 *	LOS:	B

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	34	0.000	N/S 1:	0.181 *
Southbound	Through	0.34	1,600	81	0.112	N/S 2:	0.131
	Left	0.33	1,600	64	0.040 *	E/W 1:	0.429 *
	Right	0.50	0	62	0.000	E/W 2:	0.330
Westbound	Through	0.50	1,600	401	0.289		
	Left	1.00	1,600	18	0.011 *	V/C Ratio:	0.610
	Right	0.33	0	30	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	165	0.141 *	ITS:	-0.100
	Left	0.33	1,600	31	0.019		
	Right	0.50	0	31	0.000	ICU:	0.610
Eastbound	Through	0.50	1,600	637	0.418 *		
	Left	1.00	1,600	65	0.041	LOS:	B

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

2. RECORD AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	34	0.000	N/S 1:	0.121 *
Southbound	Through	0.34	1,600	66	0.093	N/S 2:	0.111
	Left	0.33	1,600	48	0.030 *	E/W 1:	0.198
	Right	0.50	0	62	0.000	E/W 2:	0.246 *
Westbound	Through	1.00	3,200	658	0.234 *		
	Left	0.50	1,600	28	0.018	V/C Ratio:	0.367
	Right	0.33	0	49	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	68	0.091 *	ITS:	-0.100
	Left	0.33	1,600	28	0.018		
	Right	0.50	0	63	0.000	ICU:	0.367
Eastbound	Through	1.00	3,200	494	0.180		
	Left	0.50	1,600	19	0.012 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	21	0.000	N/S 1:	0.047 *
Southbound	Through	0.34	1,600	11	0.031	N/S 2:	0.040
	Left	0.33	1,600	17	0.011 *	E/W 1:	0.217 *
	Right	0.50	0	30	0.000	E/W 2:	0.197
Westbound	Through	1.00	3,200	522	0.177		
	Left	0.50	1,600	15	0.009 *	V/C Ratio:	0.264
	Right	0.33	0	27	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	17	0.036 *	ITS:	-0.100
	Left	0.33	1,600	14	0.009		
	Right	0.50	0	25	0.000	ICU:	0.264
Eastbound	Through	1.00	3,200	607	0.208 *		
	Left	0.50	1,600	32	0.020	LOS:	A

* Critical Movement

EXISTING CONDITIONS (DURING SUMMER)

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

3. EASTERN AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	94	0.000	N/S 1:	0.295 *
Southbound	Through	1.50	3,200	374	0.146	N/S 2:	0.203
	Left	2.00	2,880	198	0.069 *	E/W 1:	0.204
	Right	0.50	0	255	0.000	E/W 2:	0.282 *
Westbound	Through	1.50	3,200	547	0.251 *		
	Left	1.00	1,600	34	0.021	V/C Ratio:	0.577
	Right	0.50	0	28	0.000	Loss Time:	0.100
Northbound	Through	1.50	3,200	694	0.226 *	ITS:	-0.100
	Left	2.00	2,880	163	0.057		
	Right	0.50	0	95	0.000	ICU:	0.577
Eastbound	Through	1.50	3,200	490	0.183		
	Left	1.00	1,600	49	0.031 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	63	0.000	N/S 1:	0.195
Southbound	Through	1.50	3,200	502	0.177 *	N/S 2:	0.218 *
	Left	2.00	2,880	146	0.051	E/W 1:	0.213
	Right	0.50	0	220	0.000	E/W 2:	0.260 *
Westbound	Through	1.50	3,200	464	0.214 *		
	Left	1.00	1,600	37	0.023	V/C Ratio:	0.478
	Right	0.50	0	54	0.000	Loss Time:	0.100
Northbound	Through	1.50	3,200	406	0.144	ITS:	-0.100
	Left	2.00	2,880	117	0.041 *		
	Right	0.50	0	122	0.000	ICU:	0.478
Eastbound	Through	1.50	3,200	486	0.190		
	Left	1.00	1,600	73	0.046 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

4. HUMPHREY AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	40	0.000	N/S 1:	0.215 *
Southbound	Through	0.34	1,600	61	0.143	N/S 2:	0.169
	Left	0.33	1,600	127	0.079 *	E/W 1:	0.259
	Right	0.50	0	146	0.000	E/W 2:	0.304 *
Westbound	Through	1.50	3,200	776	0.288 *		
	Left	1.00	1,600	65	0.041	V/C Ratio:	0.519
	Right	0.33	0	91	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	86	0.136 *	ITS:	-0.100
	Left	0.33	1,600	41	0.026		
	Right	0.50	0	40	0.000	ICU:	0.519
Eastbound	Through	1.50	3,200	656	0.218		
	Left	1.00	1,600	25	0.016 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	27	0.000	N/S 1:	0.086 *
Southbound	Through	0.34	1,600	25	0.066	N/S 2:	0.077
	Left	0.33	1,600	53	0.033 *	E/W 1:	0.220
	Right	0.50	0	69	0.000	E/W 2:	0.252 *
Westbound	Through	1.50	3,200	702	0.241 *		
	Left	1.00	1,600	26	0.016	V/C Ratio:	0.338
	Right	0.33	0	36	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	30	0.053 *	ITS:	-0.100
	Left	0.33	1,600	18	0.011		
	Right	0.50	0	19	0.000	ICU:	0.338
Eastbound	Through	1.50	3,200	634	0.204		
	Left	1.00	1,600	17	0.011 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

5. FORD BOULEVARD & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	295	0.000	N/S 1:	0.238
Southbound	Through	0.50	1,600	72	0.229 *	N/S 2:	0.458 *
	Left	1.00	1,600	95	0.059	E/W 1:	0.162
	Right	0.50	0	18	0.000	E/W 2:	0.208 *
Westbound	Through	1.00	3,200	588	0.192 *		
	Left	0.50	1,600	8	0.005	V/C Ratio:	0.666
	Right	0.50	0	96	0.000	Loss Time:	0.100
Northbound	Through	0.50	1,600	191	0.179	ITS:	-0.100
	Left	1.00	1,600	366	0.229 *		
	Right	0.50	0	100	0.000	ICU:	0.666
Eastbound	Through	1.00	3,200	376	0.157		
	Left	0.50	1,600	25	0.016 *	LOS:	B

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	153	0.000	N/S 1:	0.315
Southbound	Through	0.50	1,600	118	0.169 *	N/S 2:	0.386 *
	Left	1.00	1,600	154	0.096	E/W 1:	0.200 *
	Right	0.50	0	30	0.000	E/W 2:	0.157
Westbound	Through	1.00	3,200	419	0.143		
	Left	0.50	1,600	10	0.006 *	V/C Ratio:	0.586
	Right	0.50	0	150	0.000	Loss Time:	0.100
Northbound	Through	0.50	1,600	201	0.219	ITS:	-0.100
	Left	1.00	1,600	347	0.217 *		
	Right	0.50	0	64	0.000	ICU:	0.586
Eastbound	Through	1.00	3,200	534	0.194 *		
	Left	0.50	1,600	22	0.014	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

6. GAGE AVENUE & 1ST STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	45	0.000	N/S 1:	0.162 *
Southbound	Through	0.34	1,600	126	0.130	N/S 2:	0.156
	Left	0.33	1,600	37	0.023 *	E/W 1:	0.156
	Right	0.50	0	78	0.000	E/W 2:	0.221 *
Westbound	Through	1.00	3,200	557	0.208 *		
	Left	0.50	1,600	30	0.019	V/C Ratio:	0.383
	Right	0.33	0	42	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	138	0.139 *	ITS:	-0.100
	Left	0.33	1,600	42	0.026		
	Right	0.50	0	101	0.000	ICU:	0.383
Eastbound	Through	1.00	3,200	315	0.137		
	Left	0.50	1,600	21	0.013 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	30	0.000	N/S 1:	0.197 *
Southbound	Through	0.34	1,600	78	0.091	N/S 2:	0.109
	Left	0.33	1,600	38	0.024 *	E/W 1:	0.205 *
	Right	0.50	0	44	0.000	E/W 2:	0.109
Westbound	Through	1.00	3,200	233	0.093		
	Left	0.50	1,600	20	0.013 *	V/C Ratio:	0.402
	Right	0.33	0	69	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	178	0.173 *	ITS:	-0.100
	Left	0.33	1,600	29	0.018		
	Right	0.50	0	42	0.000	ICU:	0.402
Eastbound	Through	1.00	3,200	547	0.192 *		
	Left	0.50	1,600	26	0.016	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

7. GAGE AVENUE/SR 60 EASTBOUND ON-RAMP & 3RD STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	Y
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	28	0.000	N/S 1:	0.164 *
Southbound	Through	0.34	1,600	148	0.164 *	N/S 2:	0.000
	Left	0.33	1,600	86	0.054	E/W 1:	0.246
	Right	0.50	0	149	0.000	E/W 2:	0.445 *
Westbound	Through	0.50	1,600	511	0.413 *		
	Left	1.00	1,600	55	0.034	V/C Ratio:	0.609
	Right	0.00	0	0	0.000 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000		
	Right	0.50	0	164	0.000	ICU:	0.609
Eastbound	Through	0.50	1,600	175	0.212		
	Left	1.00	1,600	51	0.032 *	LOS:	B

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	18	0.000	N/S 1:	0.089 *
Southbound	Through	0.34	1,600	37	0.089 *	N/S 2:	0.000
	Left	0.33	1,600	88	0.055	E/W 1:	0.281
	Right	0.50	0	206	0.000	E/W 2:	0.351 *
Westbound	Through	0.50	1,600	286	0.308 *		
	Left	1.00	1,600	31	0.019	V/C Ratio:	0.440
	Right	0.00	0	0	0.000 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000		
	Right	0.50	0	57	0.000	ICU:	0.440
Eastbound	Through	0.50	1,600	362	0.262		
	Left	1.00	1,600	69	0.043 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

8. SR 60 WESTBOUND RAMPS & 3RD STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	1.00	1,600	410	0.248 *	N/S 1:	0.086
Southbound	Through	0.00	0	0	0.000	N/S 2:	0.248 *
	Left	1.00	1,600	138	0.086	E/W 1:	0.144
	Right	1.00	1,600	141	0.045	E/W 2:	0.218 *
Westbound	Through	1.00	1,600	322	0.201 *		
	Left	0.00	0	0	0.000	V/C Ratio:	0.466
	Right	0.00	0	0	0.000	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000 *		
	Right	0.00	0	0	0.000	ICU:	0.466
Eastbound	Through	1.00	1,600	231	0.144		
	Left	1.00	1,600	27	0.017 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	1.00	1,600	321	0.189 *	N/S 1:	0.087
Southbound	Through	0.00	0	0	0.000	N/S 2:	0.189 *
	Left	1.00	1,600	139	0.087	E/W 1:	0.237 *
	Right	1.00	1,600	121	0.032	E/W 2:	0.169
Westbound	Through	1.00	1,600	234	0.146		
	Left	0.00	0	0	0.000 *	V/C Ratio:	0.426
	Right	0.00	0	0	0.000	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000 *		
	Right	0.00	0	0	0.000	ICU:	0.426
Eastbound	Through	1.00	1,600	379	0.237 *		
	Left	1.00	1,600	37	0.023	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

9. I-710 SOUTHBOUND OFF-RAMP/HUMPHREY AVENUE & FLORAL DRIVE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	42	0.000	N/S 1:	0.137 *
Southbound	Through	0.50	1,600	54	0.060	N/S 2:	0.129
	Left	1.00	1,600	123	0.077 *	E/W 1:	0.299 *
	Right	0.00	0	0	0.000	E/W 2:	0.266
Westbound	Through	0.50	1,600	397	0.266		
	Left	0.50	1,600	29	0.018 *	V/C Ratio:	0.436
	Right	0.50	1,398	97	0.060 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.50	202	14	0.069		
	Right	0.50	0	31	0.000	ICU:	0.436
Eastbound	Through	0.50	1,600	418	0.281 *		
	Left	0.00	0	0	0.000	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	56	0.000	N/S 1:	0.112 *
Southbound	Through	0.50	1,600	44	0.063 *	N/S 2:	0.112
	Left	1.00	1,600	110	0.069 *	E/W 1:	0.278 *
	Right	0.00	0	0	0.000	E/W 2:	0.240
Westbound	Through	0.50	1,600	365	0.240		
	Left	0.50	1,600	19	0.012 *	V/C Ratio:	0.390
	Right	0.50	1,337	66	0.043 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.50	263	13	0.049 *		
	Right	0.50	0	14	0.000	ICU:	0.390
Eastbound	Through	0.50	1,600	411	0.266 *		
	Left	0.00	0	0	0.000	LOS:	A

* Critical Movement

EXISTING CONSTRUCTION (DURING SUMMER) SR-60 HAUL ROUTE

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

1. GAGE AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	56	0.000	N/S 1:	0.226 *
Southbound	Through	0.34	1,600	96	0.143	N/S 2:	0.194
	Left	0.33	1,600	76	0.048 *	E/W 1:	0.355
	Right	0.50	0	44	0.000	E/W 2:	0.447 *
Westbound	Through	0.50	1,600	629	0.421 *		
	Left	1.00	1,600	29	0.018	V/C Ratio:	0.673
	Right	0.33	0	57	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	146	0.178 *	ITS:	-0.100
	Left	0.33	1,600	81	0.051		
	Right	0.50	0	40	0.000	ICU:	0.673
Eastbound	Through	0.50	1,600	499	0.337		
	Left	1.00	1,600	41	0.026 *	LOS:	B

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	34	0.000	N/S 1:	0.183 *
Southbound	Through	0.34	1,600	81	0.112	N/S 2:	0.131
	Left	0.33	1,600	64	0.040 *	E/W 1:	0.442 *
	Right	0.50	0	69	0.000	E/W 2:	0.343
Westbound	Through	0.50	1,600	414	0.302		
	Left	1.00	1,600	39	0.024 *	V/C Ratio:	0.625
	Right	0.33	0	32	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	165	0.143 *	ITS:	-0.100
	Left	0.33	1,600	31	0.019		
	Right	0.50	0	31	0.000	ICU:	0.625
Eastbound	Through	0.50	1,600	637	0.418 *		
	Left	1.00	1,600	65	0.041	LOS:	B

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

2. RECORD AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	34	0.000	N/S 1:	0.123 *
Southbound	Through	0.34	1,600	66	0.093	N/S 2:	0.112
	Left	0.33	1,600	48	0.030 *	E/W 1:	0.256
	Right	0.50	0	62	0.000	E/W 2:	0.267 *
Westbound	Through	1.00	3,200	658	0.255 *		
	Left	0.50	1,600	95	0.059	V/C Ratio:	0.390
	Right	0.33	0	50	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	68	0.093 *	ITS:	-0.100
	Left	0.33	1,600	30	0.019		
	Right	0.50	0	118	0.000	ICU:	0.390
Eastbound	Through	1.00	3,200	494	0.197		
	Left	0.50	1,600	19	0.012 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	21	0.000	N/S 1:	0.115 *
Southbound	Through	0.34	1,600	11	0.031	N/S 2:	0.065
	Left	0.33	1,600	17	0.011 *	E/W 1:	0.218 *
	Right	0.50	0	30	0.000	E/W 2:	0.198
Westbound	Through	1.00	3,200	522	0.178		
	Left	0.50	1,600	16	0.010 *	V/C Ratio:	0.333
	Right	0.33	0	94	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	17	0.104 *	ITS:	-0.100
	Left	0.33	1,600	55	0.034		
	Right	0.50	0	27	0.000	ICU:	0.333
Eastbound	Through	1.00	3,200	607	0.208 *		
	Left	0.50	1,600	32	0.020	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

3. EASTERN AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	107	0.000	N/S 1:	0.295 *
Southbound	Through	1.50	3,200	374	0.150	N/S 2:	0.214
	Left	2.00	2,880	198	0.069 *	E/W 1:	0.204
	Right	0.50	0	255	0.000	E/W 2:	0.292 *
Westbound	Through	1.50	3,200	581	0.261 *		
	Left	1.00	1,600	34	0.021	V/C Ratio:	0.587
	Right	0.50	0	28	0.000	Loss Time:	0.100
Northbound	Through	1.50	3,200	694	0.226 *	ITS:	-0.100
	Left	2.00	2,880	183	0.064		
	Right	0.50	0	95	0.000	ICU:	0.587
Eastbound	Through	1.50	3,200	491	0.183		
	Left	1.00	1,600	49	0.031 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	63	0.000	N/S 1:	0.195
Southbound	Through	1.50	3,200	502	0.177 *	N/S 2:	0.218 *
	Left	2.00	2,880	146	0.051	E/W 1:	0.230
	Right	0.50	0	220	0.000	E/W 2:	0.268 *
Westbound	Through	1.50	3,200	465	0.214 *		
	Left	1.00	1,600	37	0.023	V/C Ratio:	0.486
	Right	0.50	0	54	0.000	Loss Time:	0.100
Northbound	Through	1.50	3,200	406	0.144	ITS:	-0.100
	Left	2.00	2,880	117	0.041 *		
	Right	0.50	0	142	0.000	ICU:	0.486
Eastbound	Through	1.50	3,200	520	0.207		
	Left	1.00	1,600	86	0.054 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

4. HUMPHREY AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	47	0.000	N/S 1:	0.215 *
Southbound	Through	0.34	1,600	61	0.147	N/S 2:	0.173
	Left	0.33	1,600	127	0.079 *	E/W 1:	0.259
	Right	0.50	0	146	0.000	E/W 2:	0.313 *
Westbound	Through	1.50	3,200	803	0.297 *		
	Left	1.00	1,600	65	0.041	V/C Ratio:	0.528
	Right	0.33	0	91	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	86	0.136 *	ITS:	-0.100
	Left	0.33	1,600	41	0.026		
	Right	0.50	0	40	0.000	ICU:	0.528
Eastbound	Through	1.50	3,200	657	0.218		
	Left	1.00	1,600	25	0.016 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	27	0.000	N/S 1:	0.086 *
Southbound	Through	0.34	1,600	25	0.066	N/S 2:	0.077
	Left	0.33	1,600	53	0.033 *	E/W 1:	0.231
	Right	0.50	0	69	0.000	E/W 2:	0.252 *
Westbound	Through	1.50	3,200	702	0.241 *		
	Left	1.00	1,600	26	0.016	V/C Ratio:	0.338
	Right	0.33	0	36	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	30	0.053 *	ITS:	-0.100
	Left	0.33	1,600	18	0.011		
	Right	0.50	0	19	0.000	ICU:	0.338
Eastbound	Through	1.50	3,200	668	0.215		
	Left	1.00	1,600	17	0.011 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

5. FORD BOULEVARD & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C		ICU Analysis	
	Right	0.50	0	308	0.000		N/S 1:	0.238
Southbound	Through	0.50	1,600	72	0.238	*	N/S 2:	0.467 *
	Left	1.00	1,600	95	0.059		E/W 1:	0.162
	Right	0.50	0	18	0.000		E/W 2:	0.212 *
Westbound	Through	1.00	3,200	601	0.196	*		
	Left	0.50	1,600	8	0.005		V/C Ratio:	0.679
	Right	0.50	0	96	0.000		Loss Time:	0.100
Northbound	Through	0.50	1,600	191	0.179		ITS:	-0.100
	Left	1.00	1,600	366	0.229	*		
	Right	0.50	0	100	0.000		ICU:	0.679
Eastbound	Through	1.00	3,200	376	0.157			
	Left	0.50	1,600	25	0.016	*	LOS:	B

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C		ICU Analysis	
	Right	0.50	0	153	0.000		N/S 1:	0.315
Southbound	Through	0.50	1,600	118	0.169	*	N/S 2:	0.386 *
	Left	1.00	1,600	154	0.096		E/W 1:	0.206 *
	Right	0.50	0	30	0.000		E/W 2:	0.161
Westbound	Through	1.00	3,200	419	0.143			
	Left	0.50	1,600	10	0.006	*	V/C Ratio:	0.592
	Right	0.50	0	150	0.000		Loss Time:	0.100
Northbound	Through	0.50	1,600	201	0.219		ITS:	-0.100
	Left	1.00	1,600	347	0.217	*		
	Right	0.50	0	64	0.000		ICU:	0.592
Eastbound	Through	1.00	3,200	547	0.200	*		
	Left	0.50	1,600	29	0.018		LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

6. GAGE AVENUE & 1ST STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	45	0.000	N/S 1:	0.187 *
Southbound	Through	0.34	1,600	128	0.131	N/S 2:	0.157
	Left	0.33	1,600	37	0.023 *	E/W 1:	0.158
	Right	0.50	0	78	0.000	E/W 2:	0.226 *
Westbound	Through	1.00	3,200	557	0.208 *		
	Left	0.50	1,600	30	0.019	V/C Ratio:	0.413
	Right	0.33	0	42	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	179	0.164 *	ITS:	-0.100
	Left	0.33	1,600	42	0.026		
	Right	0.50	0	101	0.000	ICU:	0.413
Eastbound	Through	1.00	3,200	315	0.139		
	Left	0.50	1,600	28	0.018 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	37	0.000	N/S 1:	0.198 *
Southbound	Through	0.34	1,600	119	0.121	N/S 2:	0.139
	Left	0.33	1,600	38	0.024 *	E/W 1:	0.205 *
	Right	0.50	0	44	0.000	E/W 2:	0.109
Westbound	Through	1.00	3,200	233	0.093		
	Left	0.50	1,600	20	0.013 *	V/C Ratio:	0.403
	Right	0.33	0	69	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	180	0.174 *	ITS:	-0.100
	Left	0.33	1,600	29	0.018		
	Right	0.50	0	42	0.000	ICU:	0.403
Eastbound	Through	1.00	3,200	547	0.192 *		
	Left	0.50	1,600	26	0.016	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

7. GAGE AVENUE/SR 60 EASTBOUND ON-RAMP & 3RD STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	Y
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	28	0.000	N/S 1:	0.164 *
Southbound	Through	0.34	1,600	149	0.164 *	N/S 2:	0.000
	Left	0.33	1,600	86	0.054	E/W 1:	0.246
	Right	0.50	0	177	0.000	E/W 2:	0.470 *
Westbound	Through	0.50	1,600	511	0.430 *		
	Left	1.00	1,600	55	0.034	V/C Ratio:	0.634
	Right	0.00	0	0	0.000 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000		
	Right	0.50	0	164	0.000	ICU:	0.634
Eastbound	Through	0.50	1,600	175	0.212		
	Left	1.00	1,600	64	0.040 *	LOS:	B

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	31	0.000	N/S 1:	0.114 *
Southbound	Through	0.34	1,600	51	0.114 *	N/S 2:	0.000
	Left	0.33	1,600	101	0.063	E/W 1:	0.281
	Right	0.50	0	207	0.000	E/W 2:	0.351 *
Westbound	Through	0.50	1,600	286	0.308 *		
	Left	1.00	1,600	31	0.019	V/C Ratio:	0.465
	Right	0.00	0	0	0.000 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000		
	Right	0.50	0	57	0.000	ICU:	0.465
Eastbound	Through	0.50	1,600	362	0.262		
	Left	1.00	1,600	69	0.043 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

8. SR 60 WESTBOUND RAMPS & 3RD STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	1.00	1,600	424	0.257 *	N/S 1:	0.086
Southbound	Through	0.00	0	0	0.000	N/S 2:	0.257 *
	Left	1.00	1,600	138	0.086	E/W 1:	0.144
	Right	1.00	1,600	141	0.045	E/W 2:	0.226 *
Westbound	Through	1.00	1,600	335	0.209 *		
	Left	0.00	0	0	0.000	V/C Ratio:	0.483
	Right	0.00	0	0	0.000	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000 *		
	Right	0.00	0	0	0.000	ICU:	0.483
Eastbound	Through	1.00	1,600	231	0.144		
	Left	1.00	1,600	27	0.017 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	1.00	1,600	322	0.186 *	N/S 1:	0.087
Southbound	Through	0.00	0	0	0.000	N/S 2:	0.186 *
	Left	1.00	1,600	139	0.087	E/W 1:	0.237 *
	Right	1.00	1,600	121	0.032	E/W 2:	0.177
Westbound	Through	1.00	1,600	234	0.146		
	Left	0.00	0	0	0.000 *	V/C Ratio:	0.423
	Right	0.00	0	0	0.000	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000 *		
	Right	0.00	0	0	0.000	ICU:	0.423
Eastbound	Through	1.00	1,600	379	0.237 *		
	Left	1.00	1,600	50	0.031	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

9. I-710 SOUTHBOUND OFF-RAMP/HUMPHREY AVENUE & FLORAL DRIVE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	42	0.000	N/S 1:	0.137 *
Southbound	Through	0.50	1,600	61	0.064	N/S 2:	0.133
	Left	1.00	1,600	123	0.077 *	E/W 1:	0.299 *
	Right	0.00	0	0	0.000	E/W 2:	0.266
Westbound	Through	0.50	1,600	397	0.266		
	Left	0.50	1,600	29	0.018 *	V/C Ratio:	0.436
	Right	0.50	1,398	97	0.060 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.50	202	14	0.069		
	Right	0.50	0	31	0.000	ICU:	0.436
Eastbound	Through	0.50	1,600	418	0.281 *		
	Left	0.00	0	0	0.000	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	56	0.000	N/S 1:	0.112 *
Southbound	Through	0.50	1,600	44	0.063 *	N/S 2:	0.112
	Left	1.00	1,600	110	0.069 *	E/W 1:	0.278 *
	Right	0.00	0	0	0.000	E/W 2:	0.240
Westbound	Through	0.50	1,600	365	0.240		
	Left	0.50	1,600	19	0.012 *	V/C Ratio:	0.390
	Right	0.50	1,337	66	0.043 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.50	263	13	0.049 *		
	Right	0.50	0	14	0.000	ICU:	0.390
Eastbound	Through	0.50	1,600	411	0.266 *		
	Left	0.00	0	0	0.000	LOS:	A

* Critical Movement

EXISTING WITH CONSTRUCTION (DURING SUMMER) I-710 HAUL ROUTE

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

1. GAGE AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	56	0.000	N/S 1:	0.225 *
Southbound	Through	0.34	1,600	96	0.143	N/S 2:	0.194
	Left	0.33	1,600	76	0.048 *	E/W 1:	0.355
	Right	0.50	0	44	0.000	E/W 2:	0.447 *
Westbound	Through	0.50	1,600	629	0.421 *		
	Left	1.00	1,600	28	0.018	V/C Ratio:	0.672
	Right	0.33	0	56	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	146	0.177 *	ITS:	-0.100
	Left	0.33	1,600	81	0.051		
	Right	0.50	0	40	0.000	ICU:	0.672
Eastbound	Through	0.50	1,600	499	0.337		
	Left	1.00	1,600	41	0.026 *	LOS:	B

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	34	0.000	N/S 1:	0.182 *
Southbound	Through	0.34	1,600	81	0.112	N/S 2:	0.131
	Left	0.33	1,600	64	0.040 *	E/W 1:	0.442 *
	Right	0.50	0	69	0.000	E/W 2:	0.343
Westbound	Through	0.50	1,600	414	0.302		
	Left	1.00	1,600	38	0.024 *	V/C Ratio:	0.624
	Right	0.33	0	31	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	165	0.142 *	ITS:	-0.100
	Left	0.33	1,600	31	0.019		
	Right	0.50	0	31	0.000	ICU:	0.624
Eastbound	Through	0.50	1,600	637	0.418 *		
	Left	1.00	1,600	65	0.041	LOS:	B

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

2. RECORD AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C		ICU Analysis	
	Right	0.33	0	34	0.000		N/S 1:	0.123 *
Southbound	Through	0.34	1,600	66	0.093		N/S 2:	0.111
	Left	0.33	1,600	48	0.030	*	E/W 1:	0.257
	Right	0.50	0	62	0.000		E/W 2:	0.267 *
Westbound	Through	1.00	3,200	658	0.255	*		
	Left	0.50	1,600	96	0.060		V/C Ratio:	0.390
	Right	0.33	0	51	0.000		Loss Time:	0.100
Northbound	Through	0.34	1,600	68	0.093	*	ITS:	-0.100
	Left	0.33	1,600	29	0.018			
	Right	0.50	0	117	0.000		ICU:	0.390
Eastbound	Through	1.00	3,200	494	0.197			
	Left	0.50	1,600	19	0.012	*	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C		ICU Analysis	
	Right	0.33	0	21	0.000		N/S 1:	0.115 *
Southbound	Through	0.34	1,600	11	0.031		N/S 2:	0.065
	Left	0.33	1,600	17	0.011	*	E/W 1:	0.219 *
	Right	0.50	0	30	0.000		E/W 2:	0.198
Westbound	Through	1.00	3,200	522	0.178			
	Left	0.50	1,600	17	0.011	*	V/C Ratio:	0.334
	Right	0.33	0	95	0.000		Loss Time:	0.100
Northbound	Through	0.34	1,600	17	0.104	*	ITS:	-0.100
	Left	0.33	1,600	54	0.034			
	Right	0.50	0	26	0.000		ICU:	0.334
Eastbound	Through	1.00	3,200	607	0.208	*		
	Left	0.50	1,600	32	0.020		LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

3. EASTERN AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C		ICU Analysis	
	Right	0.50	0	108	0.000		N/S 1:	0.295 *
Southbound	Through	1.50	3,200	374	0.151		N/S 2:	0.215
	Left	2.00	2,880	198	0.069	*	E/W 1:	0.204
	Right	0.50	0	255	0.000		E/W 2:	0.292 *
Westbound	Through	1.50	3,200	581	0.261	*		
	Left	1.00	1,600	34	0.021		V/C Ratio:	0.587
	Right	0.50	0	28	0.000		Loss Time:	0.100
Northbound	Through	1.50	3,200	694	0.226	*	ITS:	-0.100
	Left	2.00	2,880	183	0.064			
	Right	0.50	0	95	0.000		ICU:	0.587
Eastbound	Through	1.50	3,200	492	0.183			
	Left	1.00	1,600	49	0.031	*	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C		ICU Analysis	
	Right	0.50	0	64	0.000		N/S 1:	0.195
Southbound	Through	1.50	3,200	502	0.177	*	N/S 2:	0.218 *
	Left	2.00	2,880	146	0.051		E/W 1:	0.230
	Right	0.50	0	220	0.000		E/W 2:	0.268 *
Westbound	Through	1.50	3,200	465	0.214	*		
	Left	1.00	1,600	37	0.023		V/C Ratio:	0.486
	Right	0.50	0	54	0.000		Loss Time:	0.100
Northbound	Through	1.50	3,200	406	0.144		ITS:	-0.100
	Left	2.00	2,880	117	0.041	*		
	Right	0.50	0	142	0.000		ICU:	0.486
Eastbound	Through	1.50	3,200	521	0.207			
	Left	1.00	1,600	86	0.054	*	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

4. HUMPHREY AVENUE & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	47	0.000	N/S 1:	0.215 *
Southbound	Through	0.34	1,600	61	0.147	N/S 2:	0.173
	Left	0.33	1,600	127	0.079 *	E/W 1:	0.259
	Right	0.50	0	146	0.000	E/W 2:	0.313 *
Westbound	Through	1.50	3,200	803	0.297 *		
	Left	1.00	1,600	65	0.041	V/C Ratio:	0.528
	Right	0.33	0	91	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	86	0.136 *	ITS:	-0.100
	Left	0.33	1,600	41	0.026		
	Right	0.50	0	40	0.000	ICU:	0.528
Eastbound	Through	1.50	3,200	658	0.218		
	Left	1.00	1,600	25	0.016 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	27	0.000	N/S 1:	0.086 *
Southbound	Through	0.34	1,600	25	0.066	N/S 2:	0.077
	Left	0.33	1,600	53	0.033 *	E/W 1:	0.231
	Right	0.50	0	69	0.000	E/W 2:	0.252 *
Westbound	Through	1.50	3,200	702	0.241 *		
	Left	1.00	1,600	26	0.016	V/C Ratio:	0.338
	Right	0.33	0	36	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	30	0.053 *	ITS:	-0.100
	Left	0.33	1,600	18	0.011		
	Right	0.50	0	19	0.000	ICU:	0.338
Eastbound	Through	1.50	3,200	669	0.215		
	Left	1.00	1,600	17	0.011 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

5. FORD BOULEVARD & CESAR CHAVEZ AVENUE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C		ICU Analysis	
	Right	0.50	0	308	0.000		N/S 1:	0.238
Southbound	Through	0.50	1,600	72	0.238	*	N/S 2:	0.467 *
	Left	1.00	1,600	95	0.059		E/W 1:	0.162
	Right	0.50	0	18	0.000		E/W 2:	0.212 *
Westbound	Through	1.00	3,200	601	0.196	*		
	Left	0.50	1,600	8	0.005		V/C Ratio:	0.679
	Right	0.50	0	96	0.000		Loss Time:	0.100
Northbound	Through	0.50	1,600	191	0.179		ITS:	-0.100
	Left	1.00	1,600	366	0.229	*		
	Right	0.50	0	100	0.000		ICU:	0.679
Eastbound	Through	1.00	3,200	376	0.157			
	Left	0.50	1,600	26	0.016	*	LOS:	B

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C		ICU Analysis	
	Right	0.50	0	153	0.000		N/S 1:	0.315
Southbound	Through	0.50	1,600	118	0.169	*	N/S 2:	0.386 *
	Left	1.00	1,600	154	0.096		E/W 1:	0.206 *
	Right	0.50	0	30	0.000		E/W 2:	0.162
Westbound	Through	1.00	3,200	419	0.143			
	Left	0.50	1,600	10	0.006	*	V/C Ratio:	0.592
	Right	0.50	0	150	0.000		Loss Time:	0.100
Northbound	Through	0.50	1,600	201	0.219		ITS:	-0.100
	Left	1.00	1,600	347	0.217	*		
	Right	0.50	0	64	0.000		ICU:	0.592
Eastbound	Through	1.00	3,200	547	0.200	*		
	Left	0.50	1,600	30	0.019		LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

6. GAGE AVENUE & 1ST STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	45	0.000	N/S 1:	0.187 *
Southbound	Through	0.34	1,600	127	0.131	N/S 2:	0.157
	Left	0.33	1,600	37	0.023 *	E/W 1:	0.158
	Right	0.50	0	78	0.000	E/W 2:	0.226 *
Westbound	Through	1.00	3,200	557	0.208 *		
	Left	0.50	1,600	30	0.019	V/C Ratio:	0.413
	Right	0.33	0	42	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	178	0.164 *	ITS:	-0.100
	Left	0.33	1,600	42	0.026		
	Right	0.50	0	101	0.000	ICU:	0.413
Eastbound	Through	1.00	3,200	315	0.139		
	Left	0.50	1,600	28	0.018 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	37	0.000	N/S 1:	0.197 *
Southbound	Through	0.34	1,600	118	0.121	N/S 2:	0.139
	Left	0.33	1,600	38	0.024 *	E/W 1:	0.205 *
	Right	0.50	0	44	0.000	E/W 2:	0.109
Westbound	Through	1.00	3,200	233	0.093		
	Left	0.50	1,600	20	0.013 *	V/C Ratio:	0.402
	Right	0.33	0	69	0.000	Loss Time:	0.100
Northbound	Through	0.34	1,600	179	0.173 *	ITS:	-0.100
	Left	0.33	1,600	29	0.018		
	Right	0.50	0	42	0.000	ICU:	0.402
Eastbound	Through	1.00	3,200	547	0.192 *		
	Left	0.50	1,600	26	0.016	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

7. GAGE AVENUE/SR 60 EASTBOUND ON-RAMP & 3RD STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	Y
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	28	0.000	N/S 1:	0.164 *
Southbound	Through	0.34	1,600	148	0.164 *	N/S 2:	0.000
	Left	0.33	1,600	86	0.054	E/W 1:	0.246
	Right	0.50	0	176	0.000	E/W 2:	0.469 *
Westbound	Through	0.50	1,600	511	0.429 *		
	Left	1.00	1,600	55	0.034	V/C Ratio:	0.633
	Right	0.00	0	0	0.000 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000		
	Right	0.50	0	164	0.000	ICU:	0.633
Eastbound	Through	0.50	1,600	175	0.212		
	Left	1.00	1,600	64	0.040 *	LOS:	B

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.33	0	31	0.000	N/S 1:	0.114 *
Southbound	Through	0.34	1,600	50	0.114 *	N/S 2:	0.000
	Left	0.33	1,600	101	0.063	E/W 1:	0.281
	Right	0.50	0	206	0.000	E/W 2:	0.351 *
Westbound	Through	0.50	1,600	286	0.308 *		
	Left	1.00	1,600	31	0.019	V/C Ratio:	0.465
	Right	0.00	0	0	0.000 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000		
	Right	0.50	0	57	0.000	ICU:	0.465
Eastbound	Through	0.50	1,600	362	0.262		
	Left	1.00	1,600	69	0.043 *	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

8. SR 60 WESTBOUND RAMPS & 3RD STREET

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	1.00	1,600	423	0.256 *	N/S 1:	0.086
Southbound	Through	0.00	0	0	0.000	N/S 2:	0.256 *
	Left	1.00	1,600	138	0.086	E/W 1:	0.144
	Right	1.00	1,600	141	0.045	E/W 2:	0.226 *
Westbound	Through	1.00	1,600	335	0.209 *		
	Left	0.00	0	0	0.000	V/C Ratio:	0.482
	Right	0.00	0	0	0.000	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000 *		
	Right	0.00	0	0	0.000	ICU:	0.482
Eastbound	Through	1.00	1,600	231	0.144		
	Left	1.00	1,600	27	0.017 *	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	1.00	1,600	321	0.185 *	N/S 1:	0.087
Southbound	Through	0.00	0	0	0.000	N/S 2:	0.185 *
	Left	1.00	1,600	139	0.087	E/W 1:	0.237 *
	Right	1.00	1,600	121	0.032	E/W 2:	0.177
Westbound	Through	1.00	1,600	234	0.146		
	Left	0.00	0	0	0.000 *	V/C Ratio:	0.422
	Right	0.00	0	0	0.000	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.00	0	0	0.000 *		
	Right	0.00	0	0	0.000	ICU:	0.422
Eastbound	Through	1.00	1,600	379	0.237 *		
	Left	1.00	1,600	50	0.031	LOS:	A

* Critical Movement

BELVEDERE MIDDLE SCHOOL CONSTRUCTION ANALYSIS

Intersection Capacity Utilization Analysis

9. I-710 SOUTHBOUND OFF-RAMP/HUMPHREY AVENUE & FLORAL DRIVE

Through Lane Capacity:	1600 vph	North/South Split Phase:	N
Left-Turn Lane Capacity:	1600 vph	East/West Split Phase:	N
Double-Left Penalty:	10 %	Loss Time % per Cycle:	10%
Right-Turn on Red:	50 %	ITS Percentage:	10%
Overlapping Right Turn:			

WEEKDAY MORNING PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	43	0.000	N/S 1:	0.137 *
Southbound	Through	0.50	1,600	61	0.065	N/S 2:	0.134
	Left	1.00	1,600	123	0.077 *	E/W 1:	0.299 *
	Right	0.00	0	0	0.000	E/W 2:	0.266
Westbound	Through	0.50	1,600	397	0.266		
	Left	0.50	1,600	29	0.018 *	V/C Ratio:	0.436
	Right	0.50	1,398	97	0.060 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.50	202	14	0.069		
	Right	0.50	0	31	0.000	ICU:	0.436
Eastbound	Through	0.50	1,600	418	0.281 *		
	Left	0.00	0	0	0.000	LOS:	A

WEEKDAY AFTERNOON PEAK HOUR

Approach	Movement	Lanes	Capacity	Volume	V/C	ICU Analysis	
	Right	0.50	0	57	0.000	N/S 1:	0.112 *
Southbound	Through	0.50	1,600	44	0.063 *	N/S 2:	0.112
	Left	1.00	1,600	110	0.069 *	E/W 1:	0.278 *
	Right	0.00	0	0	0.000	E/W 2:	0.240
Westbound	Through	0.50	1,600	365	0.240		
	Left	0.50	1,600	19	0.012 *	V/C Ratio:	0.390
	Right	0.50	1,337	66	0.043 *	Loss Time:	0.100
Northbound	Through	0.00	0	0	0.000	ITS:	-0.100
	Left	0.50	263	13	0.049 *		
	Right	0.50	0	14	0.000	ICU:	0.390
Eastbound	Through	0.50	1,600	411	0.266 *		
	Left	0.00	0	0	0.000	LOS:	A

* Critical Movement